

WILROY®

INTERNATIONAL
CATALOG

American Excellence

WILNOT



BS EN1634

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Wilroy:

Where the Little Things Matter Greatly

Think about your next building project, whether you are erecting a commercial office center or an apartment complex from the ground up, tackling some do-it-yourself home improvements, building your dream kitchen or outfitting a garage or a man cave.

Now, think about your structure and the areas within. Areas that only a few give second thought to. Areas that rely on a level of mechanical and often invisible functionality.

External doors and windows that should seamlessly and reliably let people and fresh air in, but also serve to protect their structures and, when necessary, keep people and the elements out.

Internal doors, storage rooms, cabinets and other spaces that are relied upon to function dynamically and frequently; and where repeated use, and abuse, of hinges, locks and other related hardware can be more common than not.

And within the grand design of a structure, many of the key components aren't very grand at all. They are, frankly, *the little things* that matter disproportionate to their size, their presence and their cost.

The little things that Wilroy has perfected to guarantee the functionality of the bigger things people tend to slam, push, bang and twist. *Little things* that are, for the most part, invisible to everyday users, but important to you. Important because breaking, malfunctioning or inoperable locks, hinges and drawers can threaten safety and security and potentially subject you to unnecessary liability.

Using inferior *little things* can cause big problems. Wilroy provides *the little things that make a big difference*. Our remarkable, dependable hardware products belie their size, and even invisibility, with outstanding reliability.

Here is how Wilroy masters providing *the little things* you need to achieve your vision and build what you need — regardless of its size:

- Wilroy selects the finest suitable materials available to manufacture products that perform well and last for years — we guarantee it.
- Wilroy's innovative Smart Manufacturing techniques lower production costs without affecting quality so you get the best value for your money.
- Wilroy inspects 100% of everything it makes, ensuring that you receive perfect products, every single time.
- Wilroy's rigorous testing makes sure our products exceed the highest international standards for quality with recognized, third-party certification to bring you the peace of mind that you purchased only the best.

Think big. Build bigger. Wilroy will take care of *the little things*.





Wilroy: Our Commitment

Whether you are a building professional or on-task for some needed home improvements or fixes, you know you need the right products to make that job successful.

And when your project, regardless of its size, needs *the little things* that matter, Wilroy has you covered.

Our solid, high-quality, high-grade products are affordable, reliable and warranted. We stand behind each piece we make, and we are committed to earning your business and keeping it for years to come.

Know that Wilroy:

- **Is an American company that brings American excellence** – and straight-forward, reliable products – at reasonable prices. Wilroy is committed to bringing you the best quality at the best prices among leading American and European brands.

- **Has you, the consumer, in mind at all times.** We think like you think, we care about what you care about. Our focus is not on high-priced unusual “signature” products, practical only in very niche situations. Instead, we focus all of our resources on providing you with the best possible version of the products you need and rely on.

- **Goes to great lengths to ensure you get the best quality.** Wilroy inspects every single piece at all production stages and has third-party certification assuring conformity with high international standards of quality, safety and environmental protection – including CE certification, the premium benchmark for products by the European Union (EU).

- **We don't, and won't, make similar products for the same application in a range of qualities to accommodate different budgets** - a common strategy in today's competitive market. Rather, for every application, **we make only one product of the highest possible quality** and we offer it in a variety of sizes and finishes.

- **Stands behind its products: They are guaranteed and warranted,** with many products covered by an unrivaled, hassle-free 10 year warranty, the safest and most powerful warranty guaranteeing such products on the market today.

Wilroy is here to help you get the job done with the products you need at the best possible price – and with the peace of mind that we stand behind what we sell.

Wilroy:

Materials Matter

You can't make quality products with inferior materials. You demand high quality, especially when the products' functions involve the security of your home and the safety of your loved ones.

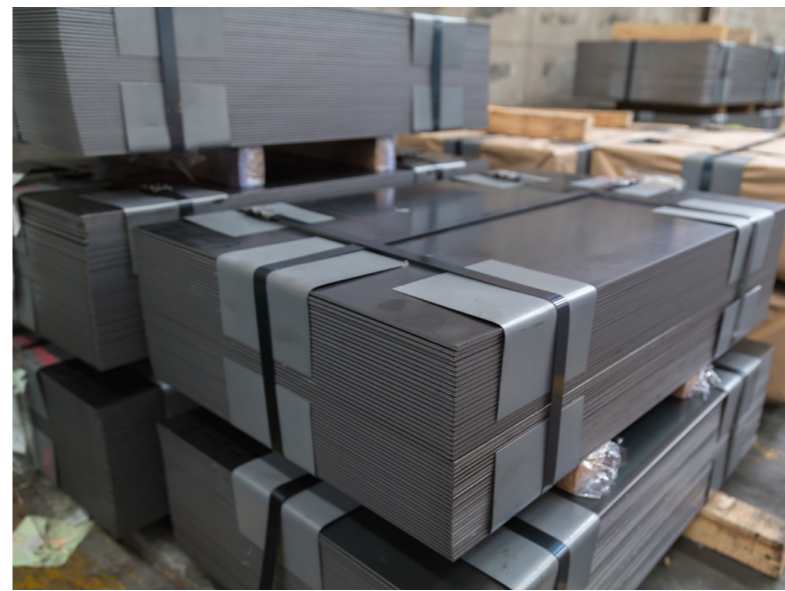
We at Wilroy understand this and have an uncompromising attitude towards quality, starting with the selection of raw materials. While cheaper alternative metals might cost less, temporarily resist corrosion and work well for a limited time; we strive to use only the best materials available to create superior products we proudly stand behind and guarantee. Products that not only meet your aesthetic requirements but operate as they should for years to come.

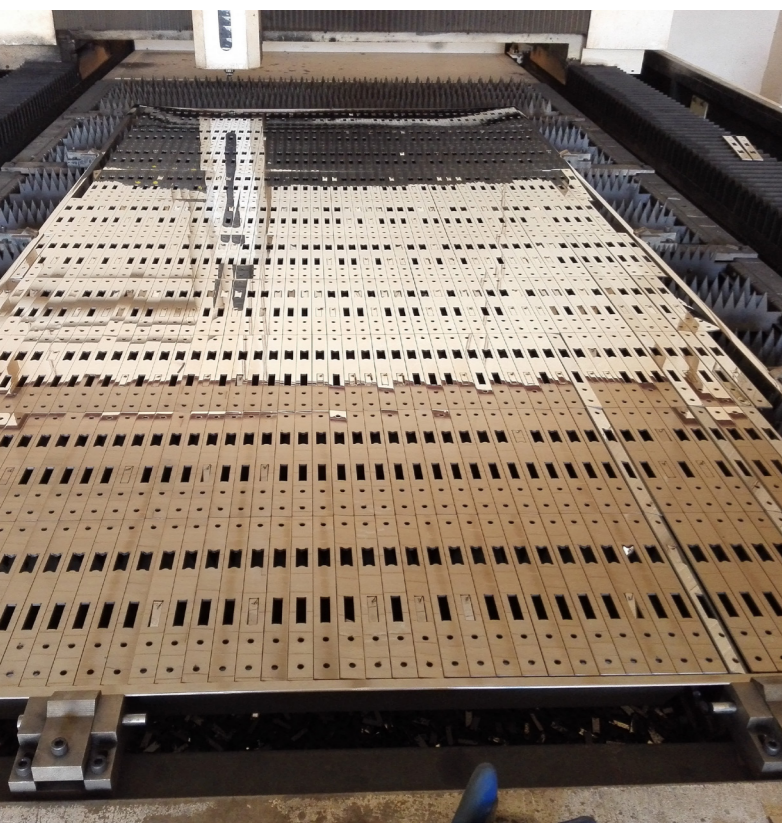
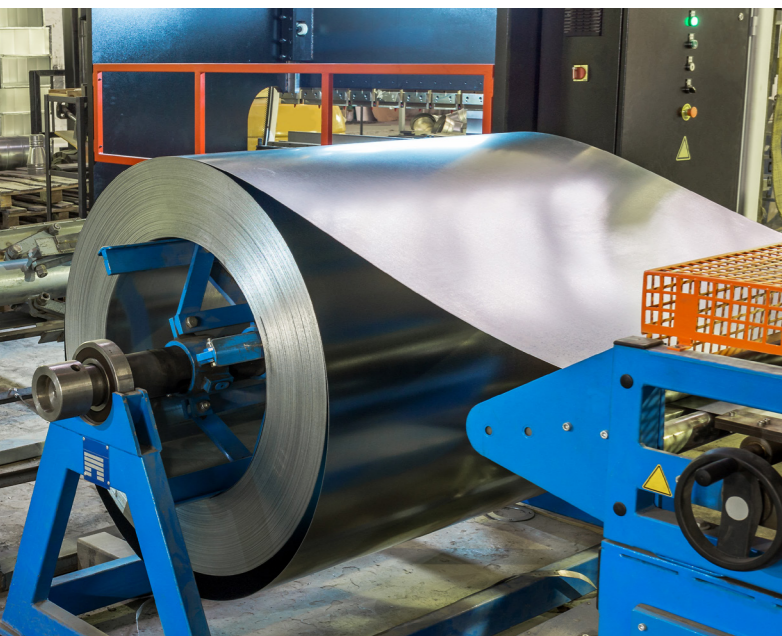
Chief among these materials is **Stainless Steel 304**, which we use extensively in our mortise locks, door hinges and our line of cabinet hinges and drawer slides. This valuable alloy - sometimes referred to by its old name 18/8, brings 18% chromium content to offer the same level of rust protection as pure chromium in chrome plating. SUS304 will not corrode or rust when exposed to the weather even in the most humid climates. This is why it is used to make kitchen sinks, cooking pots and cutlery. In addition, there is no risk of chipping, scratching or surface damage due to the formation of a protective, invisible film on the face of the metal in the presence of oxygen. Further, with a melting point of 2642 °F (1450 °C), our SUS304 products are fire-rated to 260 minutes. This astonishing fire resistance, paired with the natural sturdiness of SUS304 and its resistance to corrosion, makes it the ideal material for locks and hinges, suitable for use both indoors and outdoors.

Another go-to material is the HPB59-1 brass alloy, which is the only metal we use to make our lock cylinders. This highly corrosion-resistant metal is mainly used in the manufacture of watches and precision instruments, and its properties are ideal for the production of intricate lock cylinders, often the last line of defense against intruders.

Our products, made from the finest materials, come to you in 100% recycled packaging as part of our long-term commitment to environmental protection and the wellbeing of generations to come.

Making the finest product begins with selecting the finest, most appropriate materials for those products. Safety and savings are compromised if the quality of the materials are.





Wilroy: Work Smart AND Hard

We won't tell you all of our secrets, but we have perfected a method to lower production costs without compromising product quality. This approach affords you, the consumer, the opportunity to receive a valuable product for a fair price.

We call this approach **Smart Manufacturing**. We focus on a limited number of products and we make them perfectly. A jack-of-all-trades is master of none.

By focusing on a limited number of products, we limit the types of raw materials required. Those we do use, of the highest quality, are delivered just-in-time (JIT), which reduces storage costs and more importantly, waste.

Systematic production scheduling ensures that production is always at peak or near-peak level, further reducing waste and evenly spreading operating costs.

Investment in the best manufacturing machinery allows us to make more uniform parts. This, paired with an unforgiving inspection process, lead to fewer defects – as low as 1 in 47,000 – and adequate maintenance avoids expensive production disruptions.

Finally, and most importantly, constant investment in human resources through extensive training. Employee empowerment and cross-training keeps work interesting, motivation high and turnover low. Mutual, professional respect among professionals. Professionals committed to providing the best products the industry has to offer.

These savings in production costs are passed to the customer, and as a result, our prices are often lower than the competition for the same or better quality.

Smart Manufacturing has worked well for us, and we are constantly tweaking this approach to make Smart Manufacturing not only smarter, but to make it work better for you.

Wilroy:

Inspection without Exception

Strict quality standards govern the Wilroy production process guaranteeing that every single piece leaving the factory is **defect-free, 100% of the time**. This involves inspecting every single piece, at different stages, using technology and by hand, in addition to batch sampling. But let's not get ahead of ourselves.

The process starts with the raw materials. They are inspected upon delivery to one of our ISO 9001 certified plants. Physical inspection includes the testing of the raw materials at our lab. Materials not conforming to our standards are rejected and sent back to the supplier. **Reasons for rejection can include variations in thickness of just 0.03 mm and variations in alloy composition of just 0.7%.**

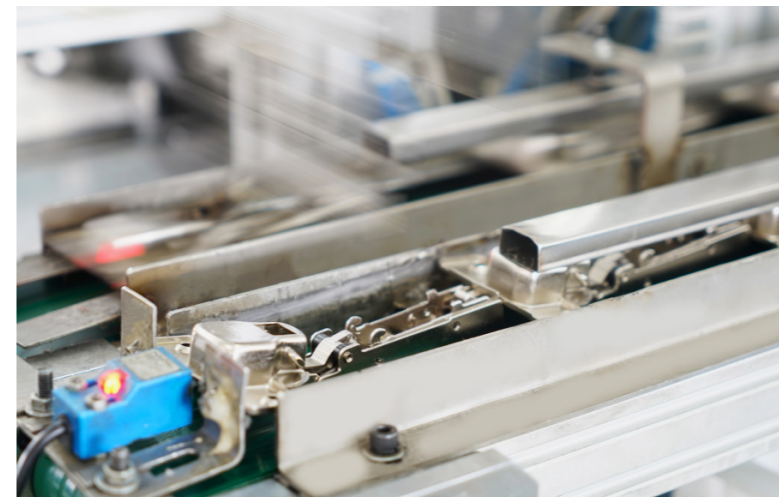
The latest in highly sophisticated visual technology scans the parts we produce and rejects them should they exceed a deviation by mere microns. Moving parts, like hinge dampers, are automatically tested for function repeatedly before moving to the assembly line.

Assembly line inspection occurs at every step, and every mechanism is tested by hand for functionality and smooth operation. Once the item reaches the packaging line, it is inspected by a dedicated team once again. Related accessories such as plates and screws are then packaged together with the primary item.

Before cartons are sealed, random sampling of 20% of the batch is undertaken. A quality control officer checks the final product for measurements, function, aesthetics, package contents, packaging condition and color, labeling and more. If any issues are found, the entire batch is pulled for a one-by-one re-inspection. But it does not end there.

Prior to shipping, a final random batch sampling is done. We open 5% of the cartons and we hand inspect 25% of the contents of every box. To date, at this stage, we have not yet recorded a single issue.

This commitment to quality assurance, and the confidence in our process, allows us to offer our customers the best warranties available in the hardware industry. Diligence and vigilance on our part have earned us the solid reputation we enjoy with our customers and have made Wilroy the name you can trust.





Wilroy: Tested for the Unexpected

Offering products to the industry means putting our reputation on the line, and our reputation would be severely damaged if our products fail to stand up to the less-than-perfect situations they are likely to encounter. Situations in the real world you probably face every day. You expect Wilroy products to perform well. But they must not only endure use and abuse during ordinary operation, they must also perform in extraordinary but all-too-common situations such as misuse, overly-aggressive handling or intentional manipulation.

But how do we emulate these conditions in a lab-controlled environment and remain confident that such conditions would be relevant in the real world? Simple. We subject our products to the most brutal testing we can think of, often far surpassing what is likely to occur in real life. Hence: **Tested for the Unexpected**. This testing is done at our state-of-the-art labs around the clock, day in and day out, year round.

For example, 50,000 test cycles for cabinet hinges is the industry norm. And our most reputable competitors are satisfied achieving this result in the lab with hinges attached to a door weighing approximately 10 pounds (4.5 kg). A pair of Wilroy hinges would easily surpass 120,000 test cycles using a door of that weight, so we up the ante. We attach the hinges to a door weighing 16 pounds (7.3 kg) and still achieve 50,000 test cycles. The same tests are repeated under different temperatures and using a variety of weights to make sure the item can handle whatever you require of it. All of our products receive similar tests for function and endurance, and high-security items are put through rigorous security testing for resistance to drilling, bumping, snapping and more.

We also perform two types of corrosion testing: an SST (Salt Spray Test) exposing our non-SUS304 products to a fog comprised of humidity and salt for extended periods of time, and an AASS (Acetic Acid Salt Spray) test, adding acetic acid to the mixture for SUS304 items.

And you don't have to just believe us, as we had standard tests performed by the most reputable international testing firms in the industry including Intertek, ift Rosenheim, SGS and others. These independent tests demonstrate that Wilroy products comply with and exceed the international standards of quality, including the particularly high standards set by the European Union. Third-party testing assigns a grade to the product depending on quality and performance, and our products invariably achieve the highest grades possible under the outlined requirements.

Wilroy:

A Superior Warranty, Unrivaled in the Industry

Wilroy invests the necessary resources to bring you the best versions of the products you need. We are so confident in our products, that Wilroy's hassle-free warranty is exceptional in terms of coverage period and ease of claims and is unrivaled by the competition on both counts. And Wilroy is the only brand that includes rust resistance in its coverage.

Wilroy offers a 10-year warranty on items made from stainless steel 304, including coverage for oxidation and discoloration, and a 5-year warranty on items not made from stainless steel 304. We guarantee that our products are free from defects in materials and workmanship, and we guarantee that they will work smoothly and look terrific, otherwise we will replace them.

In the unlikely event you should encounter an issue with one of our products, the claim procedure is simple. All we require is a proof of purchase dated within the warranty period. You do not need to keep the original packaging. Simply take the defective item to your distributor and bring home the replacement.

The only thing that voids your warranty is if your item shows obvious signs of misuse or deliberate abuse. To avoid this, simply make sure you select the right item for the intended application and that it is installed as recommended.

In the event you can't locate a distributor, contact Wilroy directly and we will direct you to the nearest location that will honor your claim, even if you made the purchase elsewhere. In case no local distributors can be found, we would replace your product through our headquarters, excluding the cost of shipping and handling.

Below is the whole Policy:

Wilroy guarantees that its products will be free from defects in materials and workmanship (including oxidation and discoloration) for a period of ten (10) years for stainless steel 304 items and five (5) years for all other items beginning on the date of sale to the end user. Wilroy's obligation is limited to replacement of the defective product or parts upon inspection when they are accompanied by proof of purchase from one of our sales agents and said proof of purchase is dated within the warranty period. We assume no liability for any labor charges related to the removal or reinstallation of the products; nor will we cover any freight, postage, travel or handling expense related to the products' return. Damage caused by accident, misuse, abuse or improper installation are not covered by this warranty. Except as expressly stated herein, there is no liability, whether expressed or implied, attributable to Wilroy. No agents, distributors, retail sales operators or others who are not specifically authorized Wilroy employees have the authority to assume any additional obligation or liability on behalf of Wilroy or its products. We reserve the right to change the terms of this warranty at any time without notice, but items sold prior to the date of these changes would remain subject to the terms applicable at the time of sale.

The Wilroy Warranty: Straightforward. Simple. Hassle-free.



Iconography Used in This Catalog



CE Marked

Item meets EU standards for health, safety, and environmental protection and is in full compliance with the relevant EU legislation applicable to the product.



SS304

Item is made from stainless steel 304 material.



FIRE RATED

Item is tested according to EN 1634-1:2014 standards and is suitable and approved for use on fire/smoke door assemblies.



ANTI-RUST

Item has very high corrosion resistance.



REVERSIBLE LATCH

Item is equipped with an easily reversible latch that allows quick on-site handing.



ANTI-PICK

Item features specially designed pins that prevent its operation without the appropriate key.



ANTI-DRILL

Item features a set of plates and 10 concealed steel pins and is protected if attacked by a drill.



ANTI-SNAP

Item features a sacrificial section that breaks off and protects the integrity of the cylinder.



ANTI-BUMP

Item uses a shallow pin stack that prevents the pins from jumping if a bump key was forced into the cylinder.



ANTI-PLUG PULL

Item features strengthened steel circlips that hold the core in place and prevent it from being extracted.



ANTI-TWIST

Item features a sophisticated multi-part mechanism so twisting off the cylinder will not move the cam controlling the lock.



ANTI-DUPLICATE

Item has a keyway that prevents the illegal duplication of keys with the latest dimple key technology.



10 YEAR WARRANTY

The performance of this product and all its variants are covered by Wilroy's hassle-free warranty for 10 years.

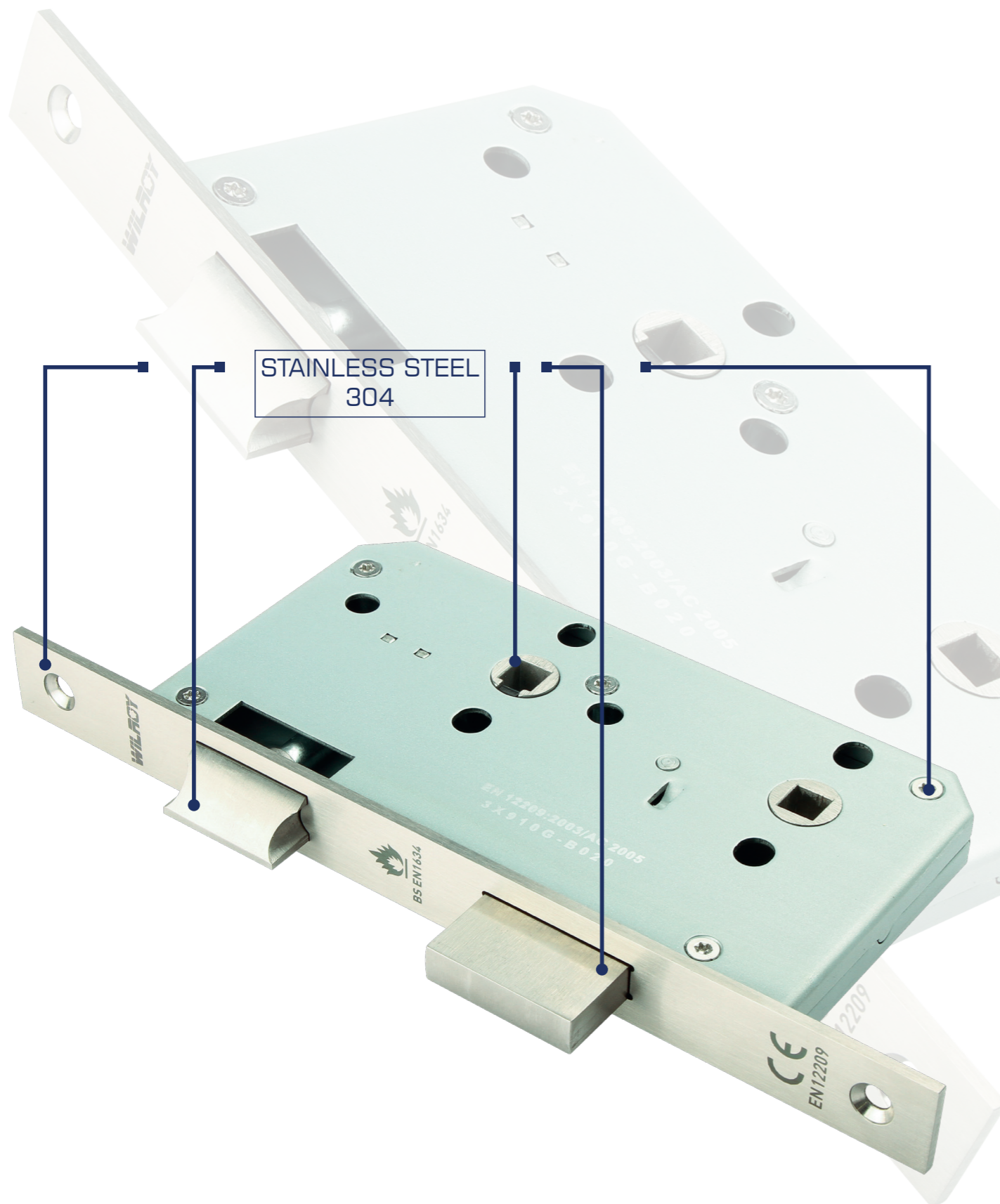


5 YEAR WARRANTY

The performance of this product and all its variants are covered by Wilroy's hassle-free warranty for 5 years.



MORTISE LOCK



Introduction

Our Wilroy mortise lock product line, specially designed to withstand heavy use in public buildings, schools, hospitals, hotels, offices and transportation hubs, are certified for such use and exceed the requirements of functionality and performance of EN 12209:2003.

Wilroy fire-rated mortise (or mortice) locks, made from stainless steel 304, offer the best solution for any building project. Whether your doors are wood or metal, hollow or solid, single or double, Wilroy provides you the highest quality possible at a reasonable price. In fact, their highly-recognized value has resulted in their use in residential buildings as well, throughout the United States and the world.

Only the Best

Wilroy's range of locks is intentionally focused on the types of locks most in use and likely to be required for your projects. We concentrate on bringing you only the best possible versions of the products you need. These locks come in the most popular backsets and center distances to accommodate any project anywhere in the world.

Fire Resistance

Wilroy fire-rated mortise locks achieve a staggering 260 minutes of fire resistance, making them ideal for use in large projects involving large numbers of occupants. This outstanding performance can further be increased with the application of intumescent kits (available separately).

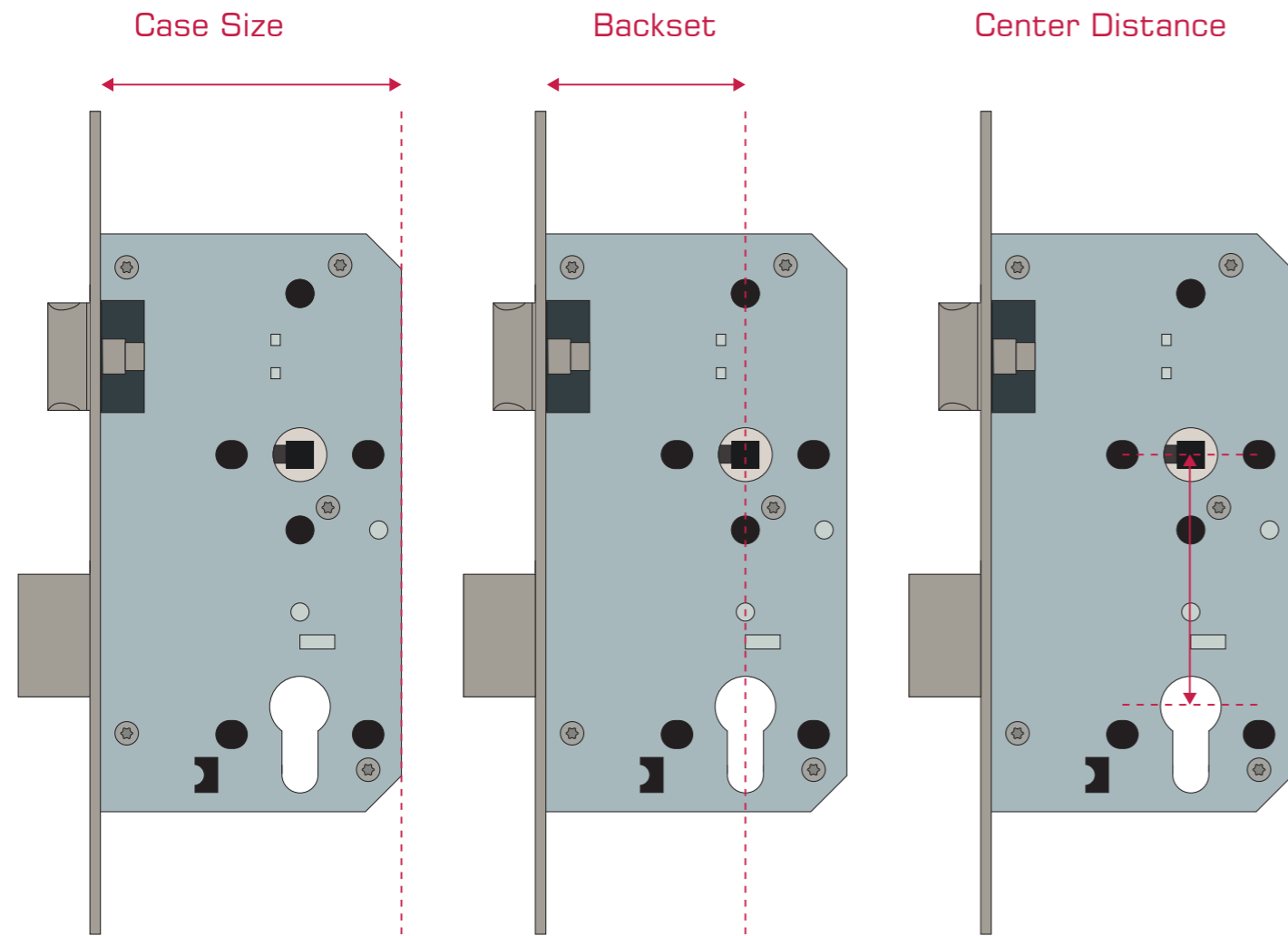
High-Quality Finishes

Wilroy locks are available in a number of high-quality finishes to suit your requirements. The available finishes are listed for every product. In addition to the standard range of finishes suitable for most of today's décor trends, we are able to supply custom finishes according to your special needs (some minimums apply).

Peace of Mind

Wilroy locks are built to last. They are affordable enough to be installed in houses and apartment buildings and come with Wilroy's 10-year, hassle-free warranty that includes coverage for oxidation and discoloration, coverage unmatched by any competitor.

Lock Sizing

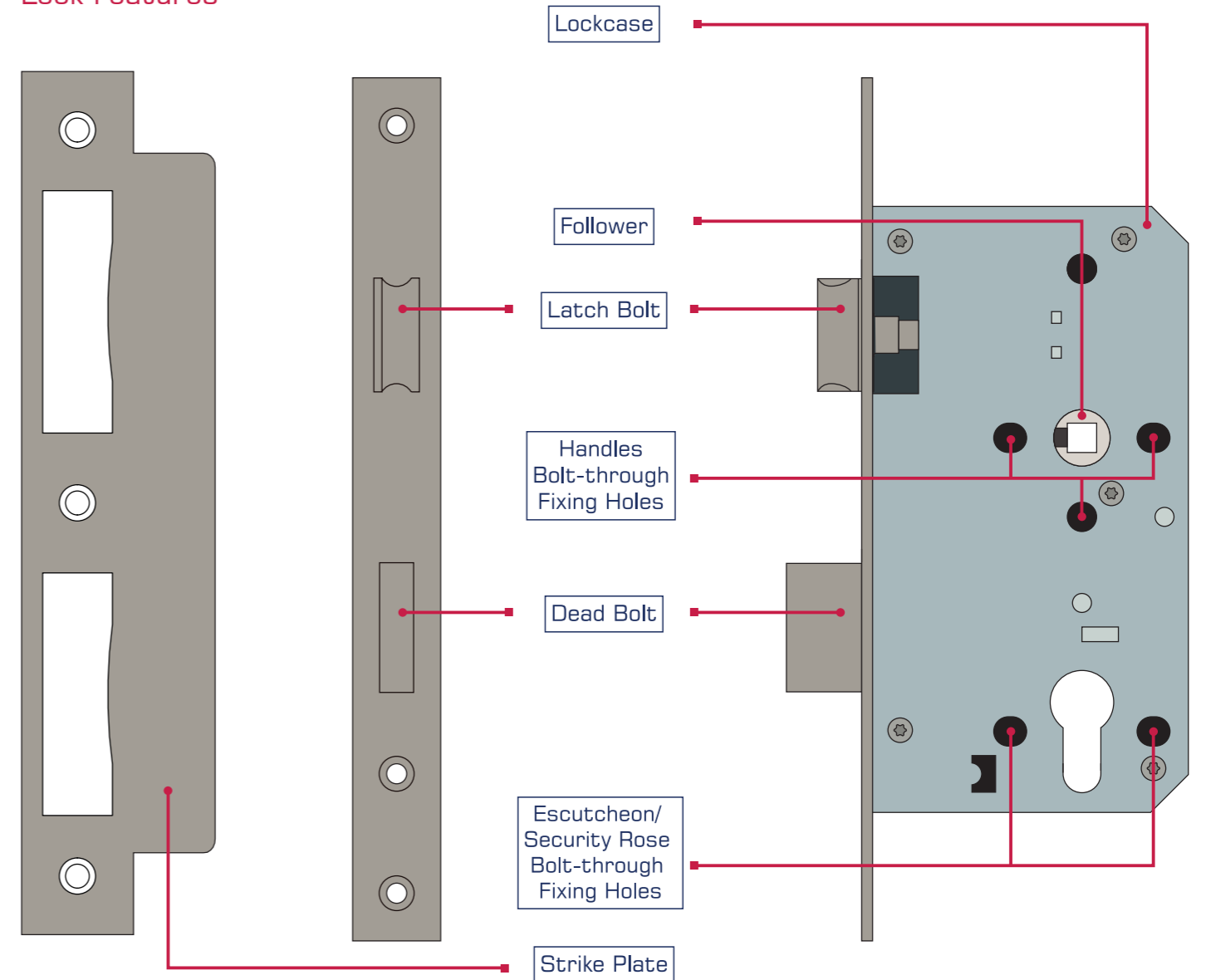


The distance between the forend and the back of the case.

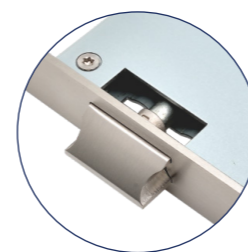
The distance between the forend and the center of the follower. This measurement is important when replacing existing locks.

The distance between the center of the follower and the center of the keyhole. This measurement is important for choosing door handles.

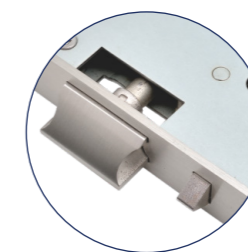
Lock Features



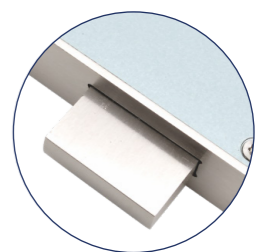
Locking Mechanism



Latch



Deadlocking Latch



Deadbolt

Installation

Regardless of the type of lock or latch used, it should be installed so that the follower, and therefore the lever or knob, is located at 38" (965 mm) from the floor for the convenience of the user. This will result in some variation in the location of the strike plate depending on the type of lock used.

Standards and Certification

EN 12209:2003 – Mechanically Operated Locks and Locking Plates

CE Classification

DIGIT 1	DIGIT 2	DIGIT 3	DIGIT 4	DIGIT 5	DIGIT 6	DIGIT 7	DIGIT 8	DIGIT 9	DIGIT 10	DIGIT 11
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Digit 1 - Category of Use

Three categories of use are identified:

- Grade 1: low frequency of use by people with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors.
- Grade 2: medium frequency of use by people with some incentive to exercise care but where there is some chance of misuse, e.g. internal office doors.
- Grade 3: high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse, e.g. public doors.

Digit 2 - Durability

Twelve grades are identified with minimum figures for deadbolt and snib operation, and latch bolt operation with and without side load. The side load is applied to the latch bolt when it is being withdrawn.

Minimum Number of Operations	Side Load Intensity				
	0 N	10 N	25 N	50 N	120 N
200,000	C	H	M	S	X
100,000	B	G	L	R	W
50,000	A	F			

Digit 3 - Door Mass and Closing Force

Nine grades are identified with maximum figures for closing force at various door masses as shown.

Note: closing force is from a standing start: i.e. fully extended latch bolt in contact with striking plate at start of test.

Maximum Closing Force	Door Mass		
	≤ 100 kg	≤ 200 kg	> 200 kg
15 N	7	8	9
25 N	4	5	6
50 N	1	2	3

Digit 4 - Fire Resistance

Two grades are identified:

- Grade 0: not approved for use on fire/smoke door assemblies.
- Grade 1: suitable for use on fire/smoke door assemblies tested to EN 1634-1.

Digit 5 - Safety

No requirement, but note: a lock or latch conforming to this standard can, at the same time, also be part of an exit device conforming to EN 179 or EN 1125.

Digit 6 - Corrosion Resistance

Eight grades are identified with neutral salt-spray (NSS) corrosion resistance grades from EN 1670:1998, with and without temperature resistance as shown:

Corrosion Resistance (NSS)	Temperature Resistance	
	No Requirement	-20 °C to +80 °C
240 hours	D	G
96 hours	C	F
48 hours	B	E
24 hours	A	
No requirement	O	

Digit 7 - Security and Drill Resistance

Seven grades are identified with minimum figures for requirements relating to physical attack, with or without drilling of the lockcase, as shown:

Resistance to Attack	No Drilling Requirement	Drilling Requirement
	Grade	
Very high	6	7
High	4	5
Medium	3	
Low	2	
None	1	

Digit 8 - Field of Door Application

Fifteen grades (A-H/J-N/P/R) are identified for differing applications – hinged or sliding doors with rim or mortise locks with either keyless egress from inside or key locking from both sides. The grading determines which application is appropriate.

Digit 9 - Type of Key Operation and Locking

Nine grades are identified for differing types of key operation (see table). The grading determines how the lock is assessed for deadlocking requirement as shown. In addition, there is a maximum key torque operating requirement of 1.5 Nm and a minimum key strength requirement of 2.5 Nm.

- Grade O: Not applicable.
- Grade A: Cylinder lock or latch; manually locking.
- Grade B: Cylinder lock or latch; automatically locking.
- Grade C: Cylinder lock or latch; manually locking with intermediate locking.
- Grade F: Lever lock or latch; manually locking.
- Grade G: Lever lock or latch; automatically locking.
- Grade H: Lever lock or latch; manually locking with intermediate locking.
- Grade L: Lock or latch without key operation; manually locking.
- Grade M: Lock without key operation; automatically locking.

Digit 10 - Type of Spindle Operation

Five grades are identified:

- Grade 0: Lock without follower.
- Grade 1: Lock with sprung lever or knob.
- Grade 2: Lock with light unsprung lever.
- Grade 3: Lock with heavy unsprung lever.
- Grade 4: Lock with manufacturer's own specification furniture.

Digit 11 - Key Identification

Nine grades are identified relating to the number of differs and retainers. Grade 0 relates to a lock with separate cylinder.

Certificate of Constancy of Performance
0359-CPR-000740



In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation), this certificate applies to the construction product(s).

Product(s): Mechanically operated locks, latches and locking plates
(refer to attached appendix for details and conditions)

Placed on the market under the trade mark of: WILROY TOOLS & HARDWARE, LLC
500 DALAWARE AVE, STE 1-1960 WILMINGTON, DE 19899, USA.

Produced in the manufacturing plant(s): A017

Intended use: When used with an appropriate door closing device on fire and/or smoke control doors to fulfil the self-closing requirement of such doors, and thereafter to ensure that the door remains shut.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN 12209:2003/AC:2005

Under system 1 for the performance set out in this certificate are applied and the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 28th February 2019 under CPR (305/2011) and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The issued document and statement(s) herein makes reference only to a presumption of conformity in accordance with the CPR Regulations EU 305/2011 (as amended). However, it is the manufacturer's or their authorised representative's sole responsibility to affix the CE logo and, by doing so, confirms full compliance and conformity to all other European mandatory directives and regulations that may also apply.



0359

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D. Bigland

David Bigland

Date 28 Feb-2019
Issue 01

Certification Manager

www.intertek.com

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Certificate of Constancy of Performance
0359-CPR-000740



Appendix to Certificate of Constancy of Performance 0359-CPR-000740

Model Ref: Refer to Table A1 for model number and variant details.

Table A1. Product description for Mechanical locks and latches from WILROY TOOLS & HARDWARE, LLC

Model Series	Function	Model Number	Backset (mm)	C to C distance (mm)
FPS	Sash lock Door handle only operate latch, cylinder operate latch and dead bolt.	FPS7255	55	72
		FPS7260	60	72
		FPS7265	65	72
		FPS7270	70	72
		FPS7280	80	72
		FPS8545	45	85
		FPS8550	50	85
		FPS8560	60	85
FPL	Passage latch Only latch bolt function, handle operate latch.	FPL7255	55	72
		FPL7260	60	72
		FPL7265	65	72
FPD	Deadlocking bolt Only Deadbolt function, cylinder operate deadbolt.	FPD7255	55	72
		FPD7260	60	72
		FPD7265	65	72
FPN	Night latch Handle operate latch, cylinder operate latch.	FPN7255	55	72
		FPN7260	60	72
		FPN7265	65	72
FPB	Bathroom lock Latch is operated by handle, Deadbolt is operated by turn.	FPB7855	55	78
		FPB7860	60	78
		FPB7865	65	78

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Certificate of Constancy of Performance

0359-CPR-000740



Table A2. Mechanical test reports & product classification for mechanically operated locks, latches and locking plates^{a, b, c} from WILROY TOOLS & HARDWARE, LLC

Test Report	Model Series	Model Number	Product Classification										
			3	X	9	1 ^b	0	G	3	B	C	2	0
160920013GZU-001 160920013GZU-002	FPS	FPS7255, FPS7260, FPS7265, FPS7270, FPS7280, FPS8545, FPS8550, FPS8560	3	X	9	1 ^b	0	G	3	B	C	2	0
	FPL	FPL7255, FPL7260, FPL7265	3	X	9	1 ^b	0	G	-	B	0	2	0
	FPD	FPD7255, FPD7260, FPD7265	3	X	9	1 ^b	0	G	3	B	C	0	0
	FPN	FPN7255, FPN7260, FPN7265	3	X	9	1 ^b	0	G	2	B	B	2	0
	FPB	FPB7855, FPB7860, FPB7865	3	X	9	1 ^b	0	G	-	B	0	2	0

Table A3. Fire test report(s) for mechanically operated locks, latches and locking plates^{a,c} from WILROY TOOLS & HARDWARE, LLC

Test Report	Model tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation (I)
171101005SHF-BP-1	FPS7280	EN 1634-1:2014	260	17
Test configuration: Single leaf single action swing steel fire door assembly Orientation: Open away the furnace.				
171101004SHF-BP-2	FPS7280	EN 1634-1:2014	111	111
Test configuration: Single leaf single action swing timber fire door assembly Orientation: Open into the furnace.				
Models listed in Table A1 were assessed as having same performance.				

Notes.

- a. The lock and plate shall be installed in accordance with the installation instructions for the product(s).
- b. Digit 4 grade "1" was based on the test result from fire resistance test (refer to Table A3).
- c. This certificate of constancy of performance, refers to the requirements for the product(s) described under the CPR. There may be other European Directives, where requirements need to be declared before CE marking can be affixed by the manufacturer or their authorised representative.

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0359-CPR-000740



Table A4. Annex ZA Related Information for Mechanically operated locks, latches and locking plates from WILROY TOOLS & HARDWARE, LLC

Product:	Mechanical locks and their strike plates		
Intended use:	On fire and smoke compartmentation doors (to fulfil the self-closing requirements of such doors)		
Requirement/characteristic	Standard clause	Result Summary	
		For Latch lock:	For deadlocking bolt:
		FPS7255, FPS7260, FPS7265, FPS7270, FPS7280, FPS8545, FPS8550, FPS8560 FPL7255, FPL7260, FPL7265 FPN7255, FPN7260, FPN7265 FPB7855, FPB7860, FPB7865	FPD7255, FPD7260, FPD7265
Self-closing ability	Closing force (5.4.2)	Grade 9, Less than 15N	NPD (No Performance Determined)
	Return force of latch bolt (5.1.2)	Pass, More than 2.5 N	NPD
Durability of self-closing action	Durability of latch action (5.3.1)	Grade X 200 000 cycles	NPD
Ability to maintain door in closed position and not contribute to the spread of fire	Resistance to side load on latch bolt (5.2.1)	Grade 3 3kN	NPD
	Suitability for use on fire/smoke doors (5.5)	Pass Grade 1 (refer to Table A3)	
Control dangerous substances	Dangerous substances (5.1.1)	No dangerous substances declared for this product/ intended use	

END OF DOCUMENT

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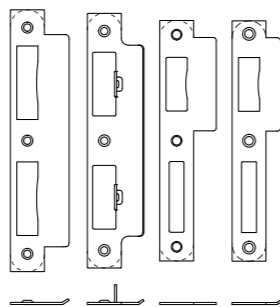
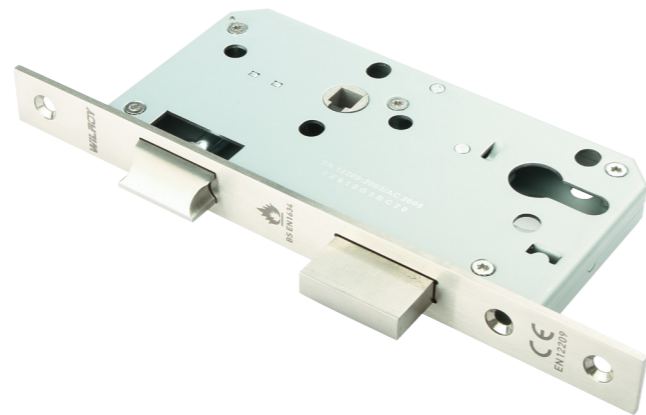
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Fire Rated Stainless Steel 304 Euro Profile Mortise Lock (72 mm)

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Double throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned twice.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Cylinder-to-latch functionality.
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3X910G3BC20**



Operation

- From the inside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.
 - Latch retracted on a second turn of the cylinder.
- From the outside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.
 - Latch retracted on a second turn of the cylinder.

Specification

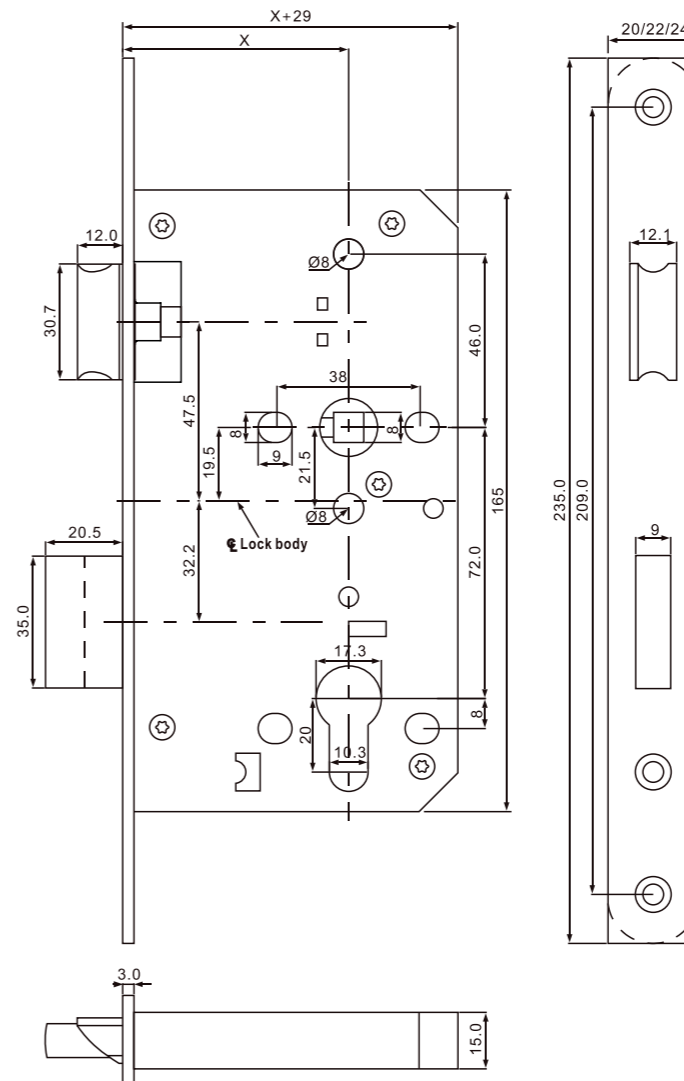
Center Distance	72 mm
Backset Size	50/55/60/65/70/80 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	20.5 mm double throw
Deadbolt Material	Stainless Steel 304
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



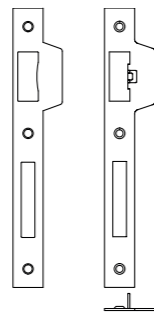
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Mortise Lock (85 mm)

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Double throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned twice.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Cylinder-to-latch functionality.
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3X910G3BC20**



Operation

- From the inside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.
 - Latch retracted on a second turn of the cylinder.
- From the outside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.
 - Latch retracted on a second turn of the cylinder.

Specification

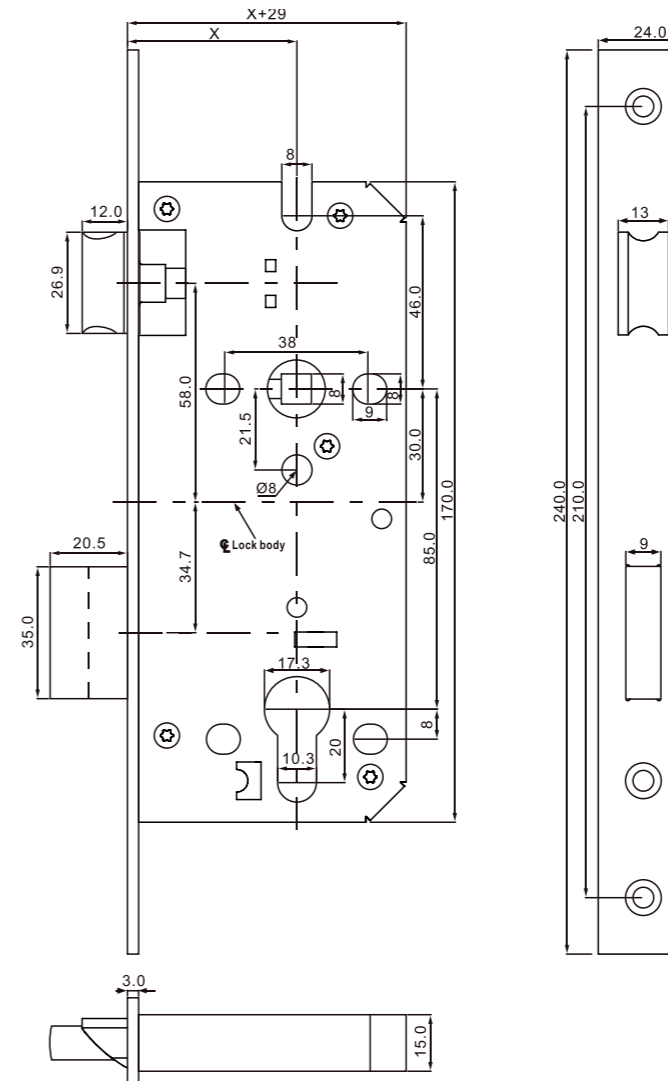
Center Distance	85 mm
Backset Size	45/50/55/60 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	20.5 mm double throw
Deadbolt Material	Stainless Steel 304
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	240 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



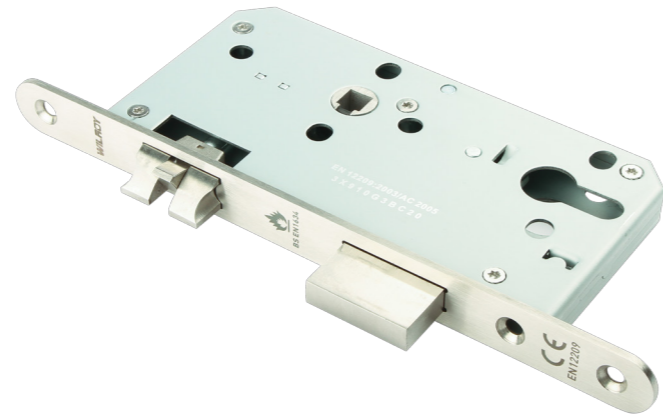
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Mortise Lock With Silent Latch

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Double throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned twice.
- Split latch technology for silent door closing.
- Easily reversible split latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Cylinder-to-latch functionality.
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3 X 9 1 0 G 3 B C 2 0**



Operation

- From the inside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.
 - Latch retracted on a second turn of the cylinder.
- From the outside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.
 - Latch retracted on a second turn of the cylinder.

Specification

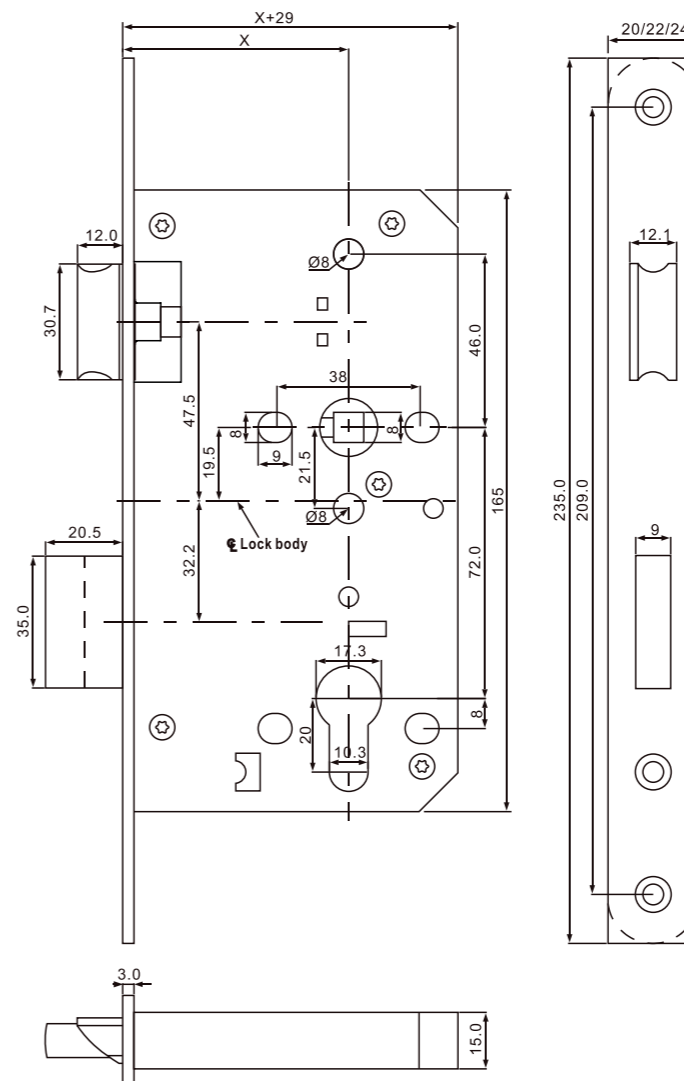
Center Distance	72 mm
Backset Size	55/60/65 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	20.5 mm double throw
Deadbolt Material	Stainless Steel 304
Latch Type	Silent Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Roller Bolt Lock (72 mm)

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Roller bolt adjustable between 2.3 mm and 13 mm made from stainless steel 304.
- Double throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned twice.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification 3X910G2BA00



Operation

- From the inside:
- Door operated by pull handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.

- From the outside:
- Door operated by pull handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.

Specification

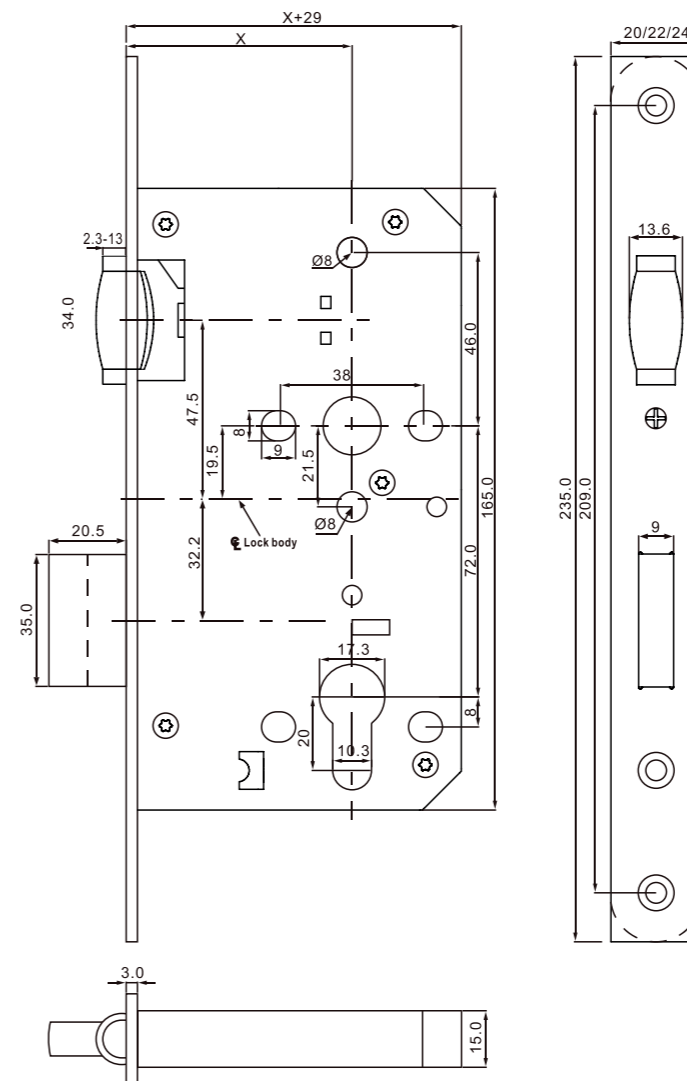
Center Distance	72 mm
Backset Size	55/60 mm
Follower	No Follower
Follower Material	N/A
Deadbolt	20.5 mm double throw
Deadbolt Material	Stainless Steel 304
Latch Type	Roller Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



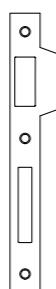
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Roller Bolt Lock (85 mm)

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Roller bolt adjustable between 2.3 mm and 13 mm made from stainless steel 304.
- Double throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned twice.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification 3X910G2BA00



Operation

- From the inside:
- Door operated by pull handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.

- From the outside:
- Door operated by pull handle/knob.
 - Deadbolt operated by cylinder key/thumbturn.

Specification

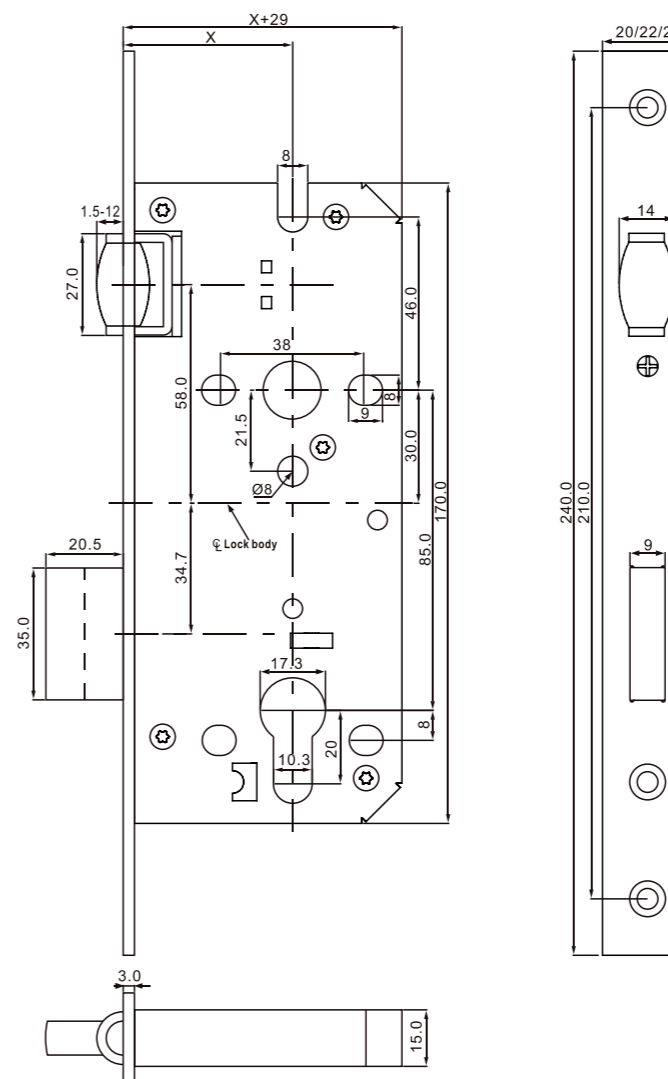
Center Distance	85 mm
Backset Size	50/55 mm
Follower	No Follower
Follower Material	N/A
Deadbolt	20.5 mm double throw
Deadbolt Material	Stainless Steel 304
Latch Type	Roller Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	240 mm
Forend	20/22/24 mm with straight corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



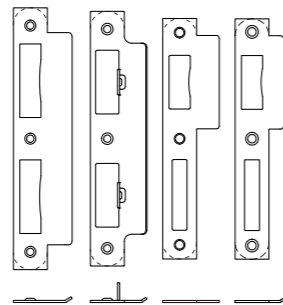
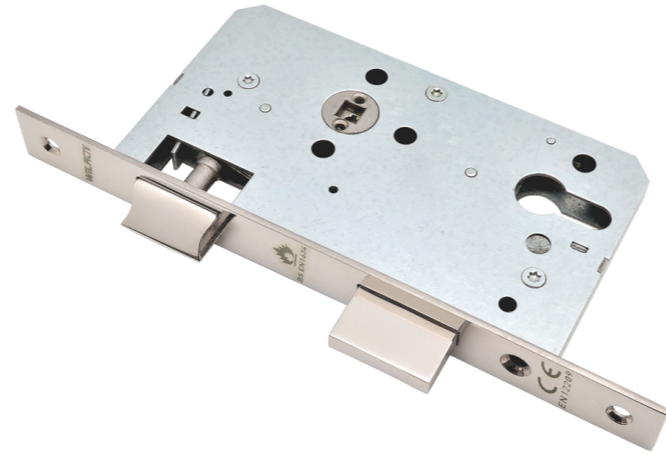
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Emergency Escape Lock

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Single throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned once.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Cylinder-to-latch functionality.
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3X910G3BA20**



Operation

- From the inside:
- Latch and deadbolt are withdrawn simultaneously by using the lever handle/knob.
 - If unlocked, only the latch is retracted.
 - Latch retracted on a second turn of the cylinder.
 - Deadbolt operated by the cylinder key/thumbturn.
- From the outside:
- Lever handle/knob only retracts the latch bolt.
 - Deadbolt operated by cylinder key/thumbturn.
 - Latch retracted on a second turn of the cylinder.

Specification

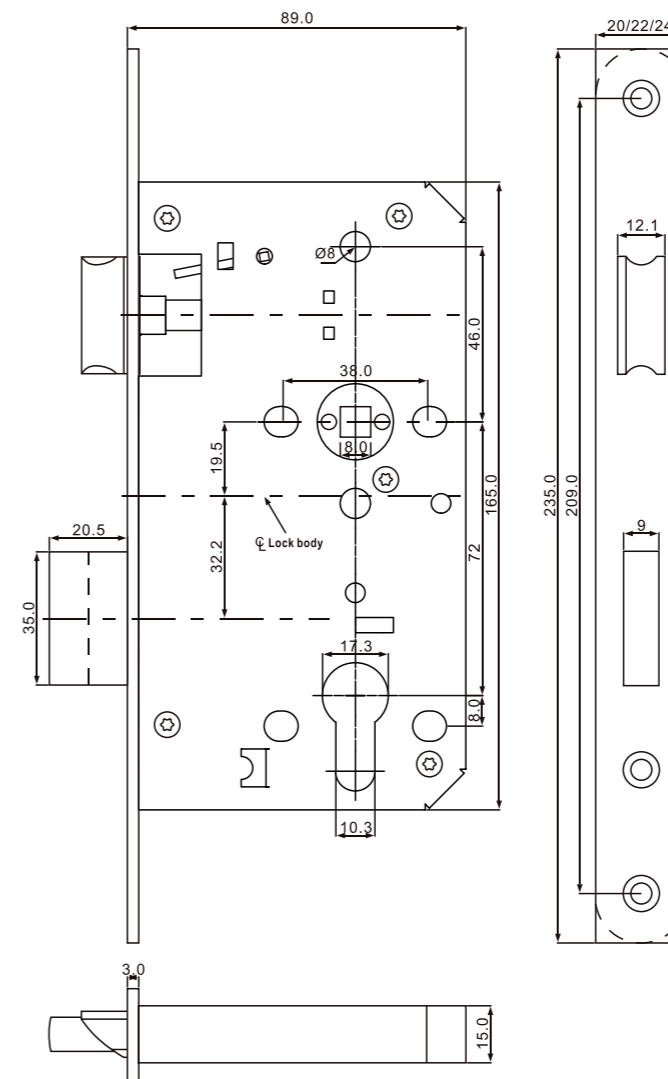
Center Distance	72 mm
Backset Size	60 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	20.5 mm single throw
Deadbolt Material	Stainless Steel 304
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.
- Fully compliant with EN 179.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



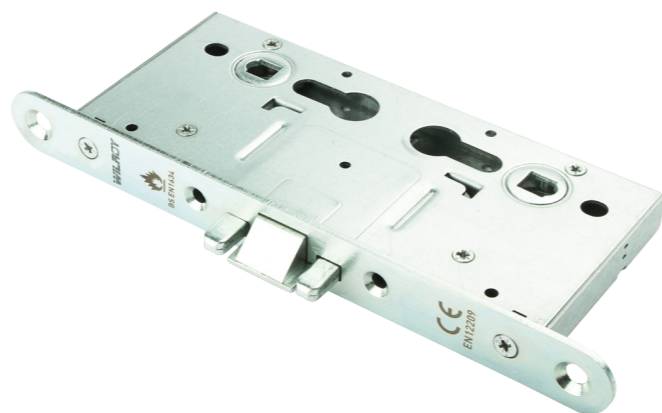
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Reversible Unhanded Panic Exit Mortise Lock

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Reversible case with 72 mm distance.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Single throw deadbolt made from stainless steel 304 extending 14 mm when key is turned once.
- 12 mm Split latch made from stainless steel 304.
- Forend made from 3 mm thick stainless steel 304, available in 24 mm width with rounded corners (possible other sizes and styles, minimums apply).
- Cylinder-to-latch functionality.
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied without strike plate.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification 3X910G3BA20



Operation

- From the inside:
- Latch and deadbolt are withdrawn simultaneously by using the lever handle/knob.
 - If unlocked, only the latch is retracted.
 - Deadbolt operated by the cylinder key/thumbturn.

- From the outside:
- Lock operated by cylinder key/thumbturn.

Specification

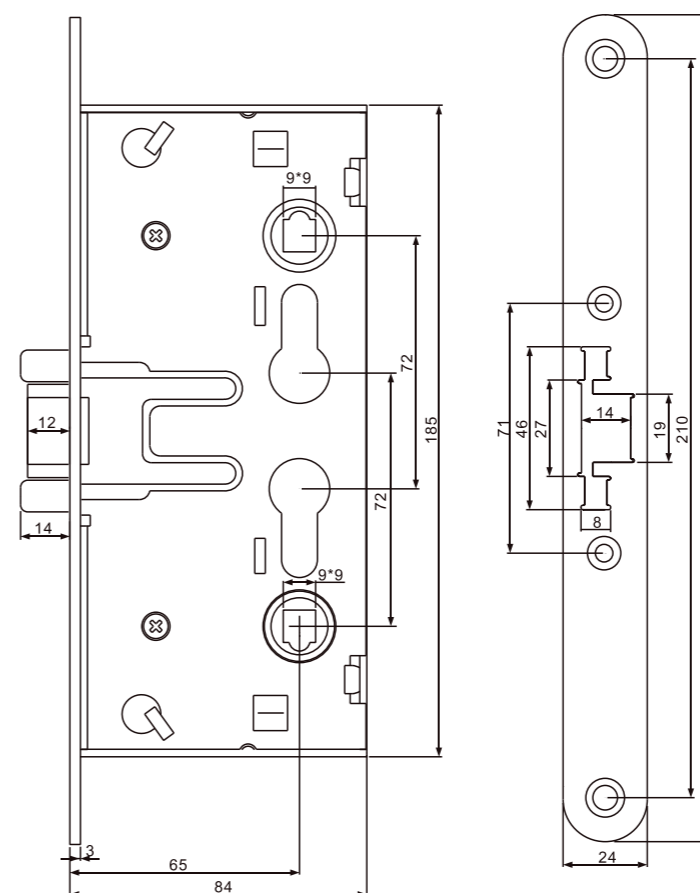
Center Distance	72 mm
Backset Size	65 mm
Follower	9 x 9 mm
Follower Material	Stainless Steel 304
Deadbolt	14 mm single throw twin bolt
Deadbolt Material	Stainless Steel 304
Latch Type	Split Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	24 mm with round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	N/A
Strike Plate Material	N/A
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- Fully tested to EN 12209:2003.
- Fully tested to EN 1634-1:2014 for suitability of use on fire doors.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



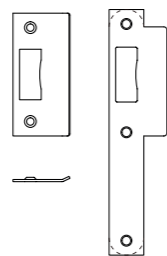
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Deadlocking Night Latch Lock

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Safety latch (snib) made from stainless steel 304.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Cylinder-to-latch functionality.
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3 X 9 1 0 G 2 B B 2 0**



Operation

- From the inside:
- Latch withdrawn by lever handle/knob or cylinder key/thumbturn.
 - Latch is automatically deadlocked when the door closes and the snib touches the strike plate.
- From the outside:
- Latch withdrawn by cylinder key to unlock the door.
 - Uses pull handles or cylinder pulls on the outside. Lever handles are not used on the outside.
 - When the door is closed and the latch is deadlocked, a key must be used for re-entry.

Specification

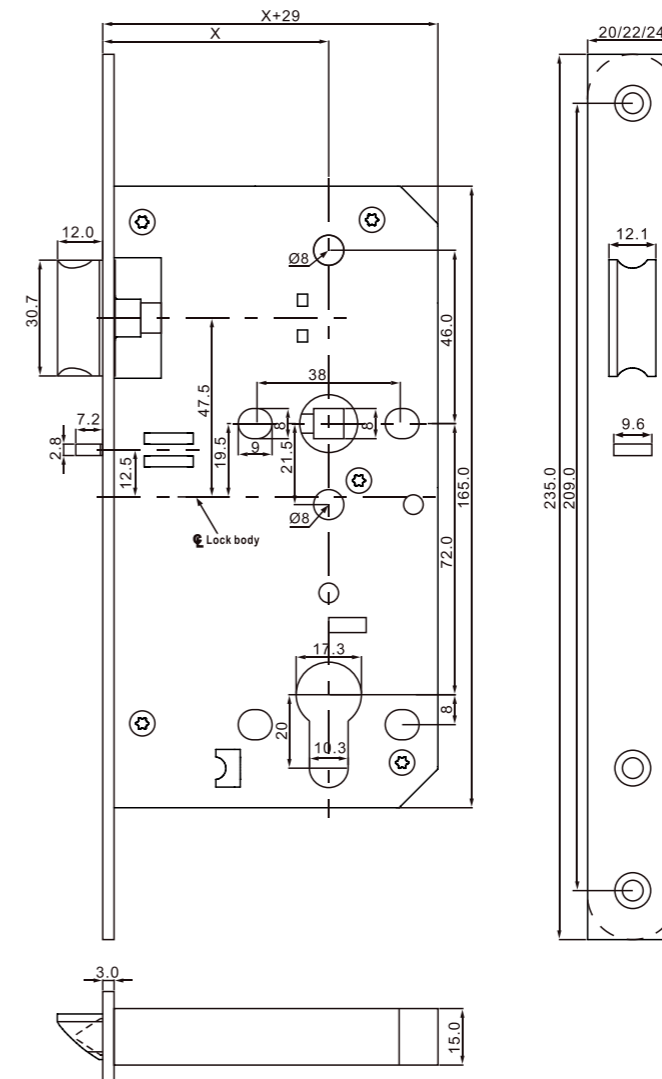
Center Distance	72 mm
Backset Size	55/60/65 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	No deadbolt
Deadbolt Material	N/A
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



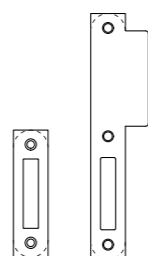
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Deadlock (72 mm)

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Double throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned twice.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3X910G3BC00**



Operation

- From the inside:
- Deadbolt locked and unlocked using cylinder key/thumb-turn.
- From the outside:
- Deadbolt locked and unlocked using cylinder key/thumb-turn.

Specification

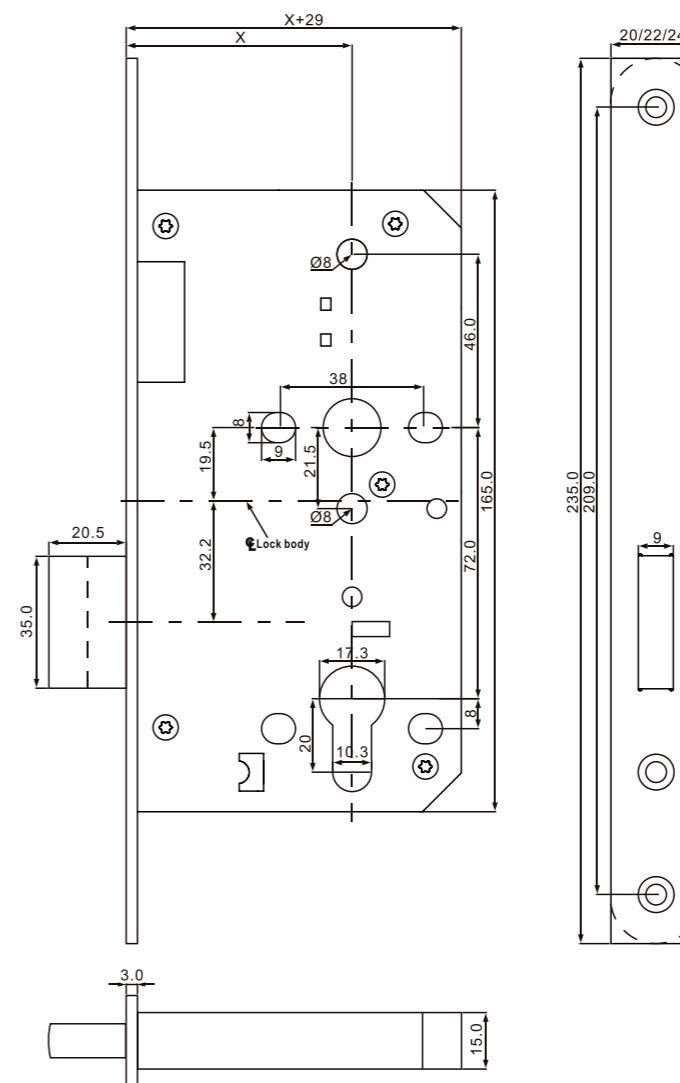
Center Distance	72 mm
Backset Size	55/60/65 mm
Follower	No Follower
Follower Material	N/A
Deadbolt	20.5 mm double throw
Deadbolt Material	Stainless Steel 304
Latch Type	No Latch
Latch Material	N/A
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



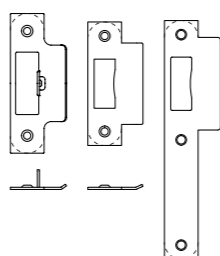
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Passage Lock

Application

- European DIN style casing.
- Bolt-through fixing holes for security handles.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3 X 9 1 0 G - B 0 2 0**



Operation

- From the inside:
- Latch withdrawn by lever handle/knob.
- From the outside:
- Latch withdrawn by lever handle/knob.

Specification

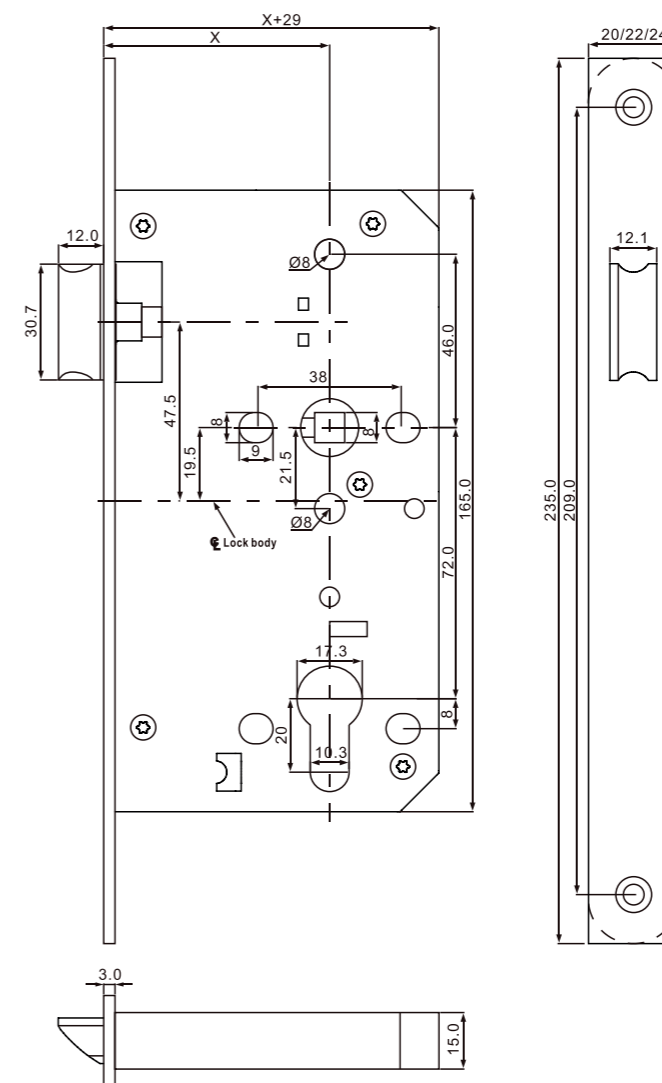
Center Distance	72 mm
Backset Size	55/60/65 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	No deadbolt
Deadbolt Material	N/A
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Euro Profile Classroom Lock

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Safety latch (snib) made from stainless steel 304.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Cylinder-to-latch functionality.
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification 3X910G2BB20



Operation

- From the inside:
- Latch withdrawn by using lever handle/knob.
 - Cannot be deadlocked from the inside.
- From the outside:
- Door can only be deadlocked from the outside.
 - Latch withdrawn by lever handle/knob or cylinder key.
 - When the door is closed and the latch is deadlocked, a key must be used for re-entry.

Specification

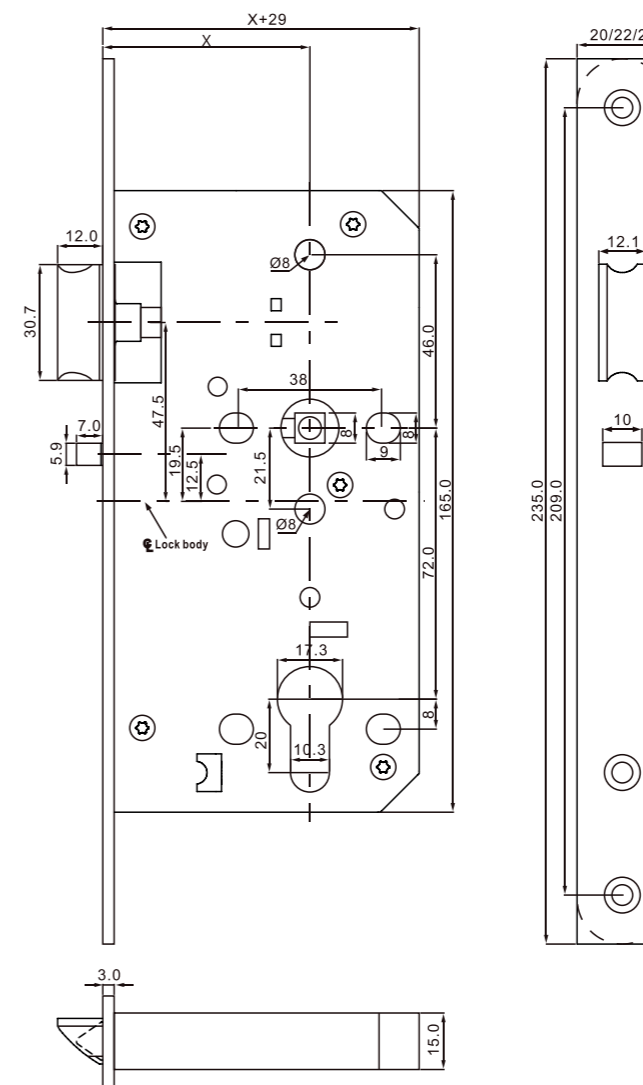
Center Distance	72 mm
Backset Size	55 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	No deadbolt
Deadbolt Material	N/A
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



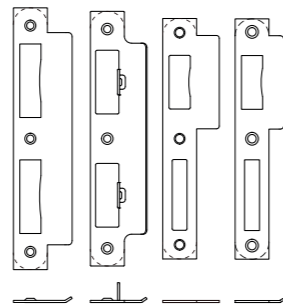
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Bathroom Lock (72 mm)

Application

- European DIN style casing designed for use with privacy turn and emergency release.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- 8 mm x 8 mm thumbturn follower made from stainless steel 304.
- Single throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned once.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3X910G-B020**



Operation

- From the inside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by privacy thumbturn.

- From the outside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt can be unlocked with a coin (or straight screw-driver tip) operated emergency release, sold separately.

Specification

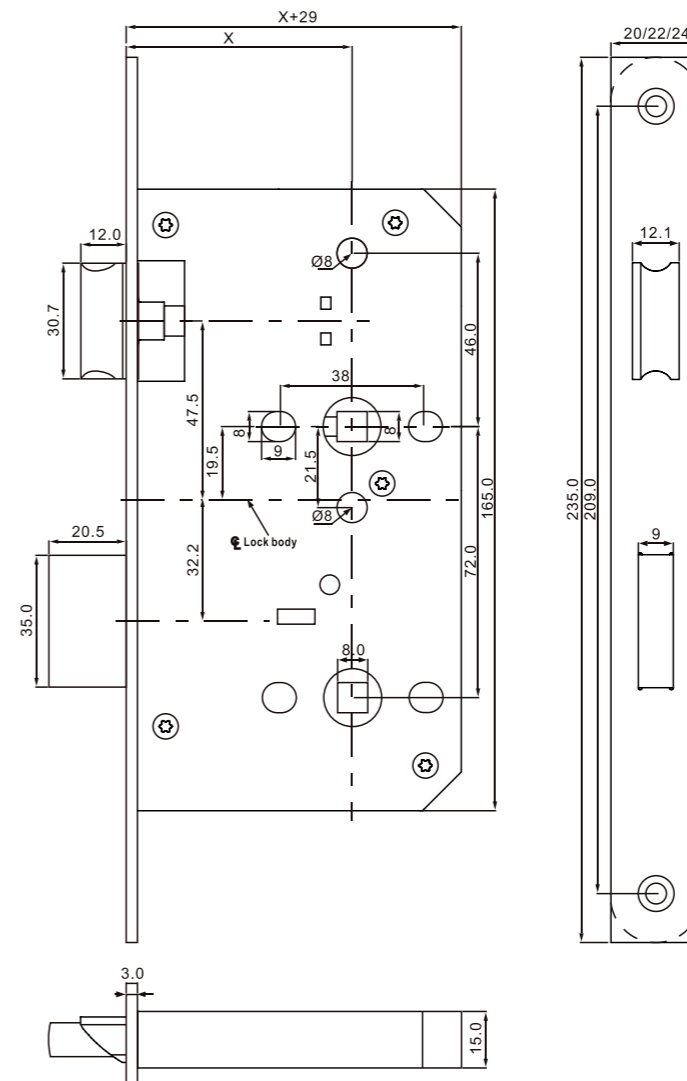
Center Distance	72 mm
Backset Size	60 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	20.5 mm single throw
Deadbolt Material	Stainless Steel 304
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



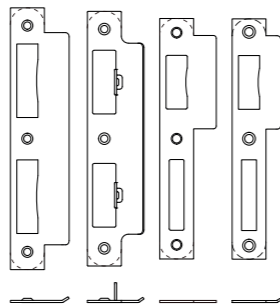
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Bathroom Lock (78 mm)

Application

- European DIN style casing designed for use with privacy turn and emergency release.
- Bolt-through fixing holes for security handles and roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- 8 mm x 8 mm thumbturn follower made from stainless steel 304.
- Single throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned once.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 20/22/24 mm widths with straight or rounded corners (specify size and type).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304 (specify type).
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification **3 X 9 1 0 G - B 0 2 0**



Operation

- From the inside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt operated by privacy thumbturn.

- From the outside:
- Latch withdrawn by lever handle/knob.
 - Deadbolt can be unlocked with a coin (or straight screw-driver tip) operated emergency release, sold separately.

Specification

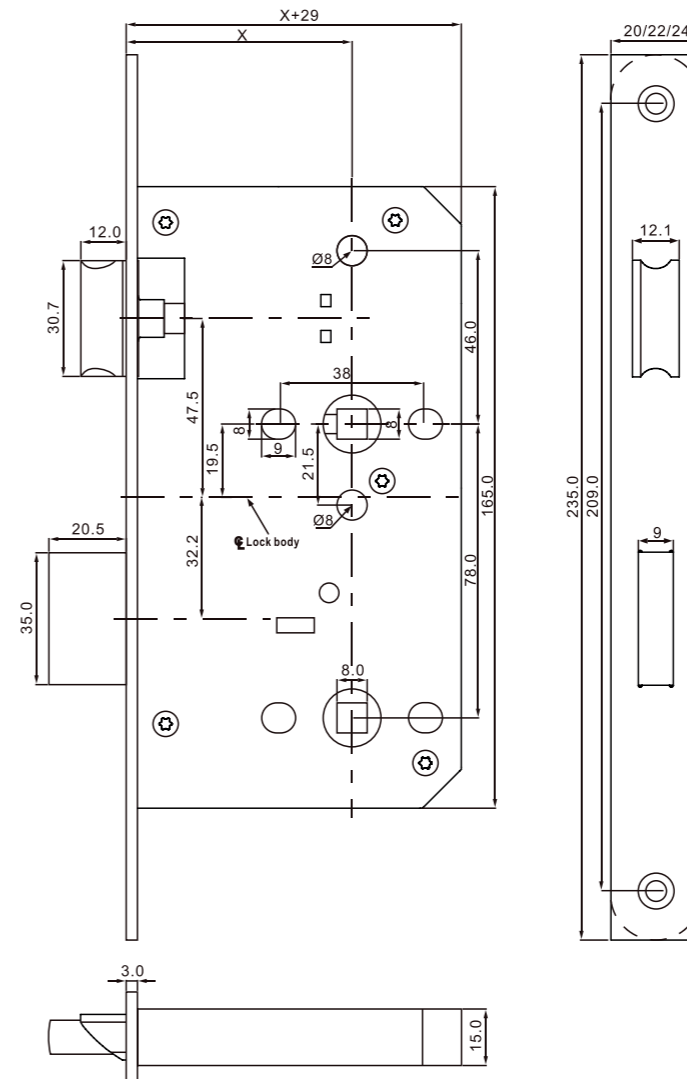
Center Distance	78 mm
Backset Size	55/60/65 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	20.5 mm single throw
Deadbolt Material	Stainless Steel 304
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	235 mm
Forend	20/22/24 mm with straight or round corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	20 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



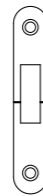
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Lock For Sliding Doors

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for pull handles.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Hook bolt made from stainless steel 304.
- Forend made from 3 mm thick stainless steel 304, available in 16 mm width with round corners (possible other sizes and styles, minimums apply).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for wood doors (metal door screws available upon request).



CE Classification 3X910G0BA00



Operation

- From the inside:
- Hook locked and unlocked using cylinder key/thumbturn.
- From the outside:
- Hook locked and unlocked using cylinder key/thumbturn.

Specification

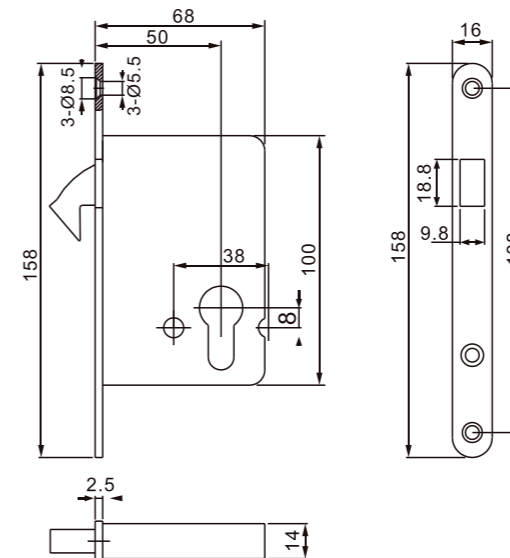
Center Distance	N/A
Backset Size	50 mm
Follower	No Follower
Follower Material	N/A
Deadbolt	No deadbolt
Deadbolt Material	N/A
Latch Type	Sliding Door Hook
Latch Material	Stainless Steel 304
Lockcase Thickness	14 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	158 mm
Forend	16 mm with round corners
Forend Thickness	2.5 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	2.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	30 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Roller Bolt

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for pull handles.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Roller bolt adjustable between 2.3 mm and 13 mm made from stainless steel 304.
- Forend made from 3 mm thick stainless steel 304, available in 24 mm width with straight corners (possible other sizes and styles, minimums apply).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for metal doors (timber door screws available upon request).



CE Classification 3X910G0BA00



Operation

- From the inside:
- Door operated by pull handle/knob.
- From the outside:
- Door operated by pull handle/knob.

Specification

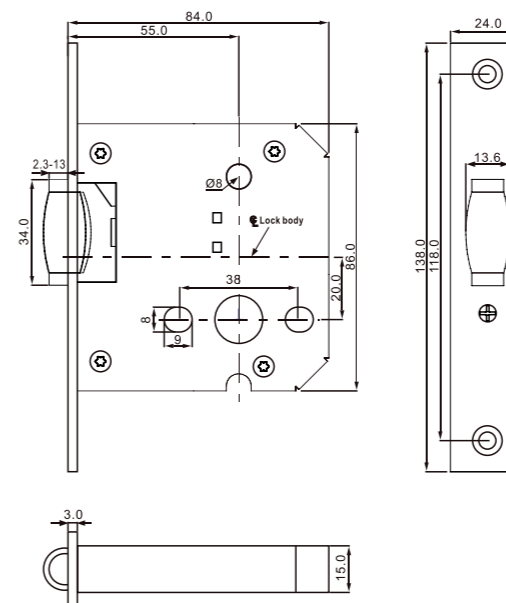
Center Distance	N/A
Backset Size	55 mm
Follower	No Follower
Follower Material	N/A
Deadbolt	No deadbolt
Deadbolt Material	N/A
Latch Type	Roller Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	138 mm
Forend	24 mm with straight corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	30 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



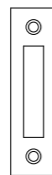
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Mortise Deadlock

Application

- European DIN style casing designed for use with Euro profile cylinders.
- Bolt-through fixing holes for security roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Double throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned twice.
- Forend made from 3 mm thick stainless steel 304, available in 24 mm width with straight corners (possible other sizes and styles, minimums apply).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification 3X910G3BC00



Operation

From the inside:
 - Deadbolt locked and unlocked using cylinder key/thumb-turn.

From the outside:
 - Deadbolt locked and unlocked using cylinder key/thumb-turn.

Specification

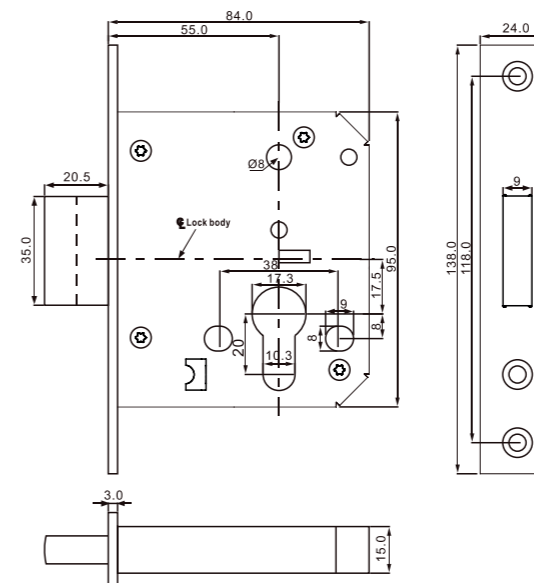
Center Distance	N/A
Backset Size	55 mm
Follower	No Follower
Follower Material	N/A
Deadbolt	20.5 mm double throw
Deadbolt Material	Stainless Steel 304
Latch Type	No Latch
Latch Material	N/A
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	138 mm
Forend	24 mm with straight corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	30 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



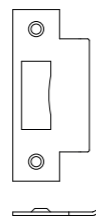
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Mortise Latch

Application

- European DIN style casing.
- Bolt-through fixing holes for security handles.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Heavily sprung latch follower made from stainless steel 304 allowing the use of heavy unsprung door furniture.
- Latch follower equipped with spindle grip feature that reduces door rattle.
- Easily reversible latch made from stainless steel 304 allows quick on-site handing.
- Forend made from 3 mm thick stainless steel 304, available in 24 mm width with straight corners (possible other sizes and styles, minimums apply).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification 3X910G - B020



Operation

- From the inside:
- Latch withdrawn by lever handle/knob.
- From the outside:
- Latch withdrawn by lever handle/knob.

Specification

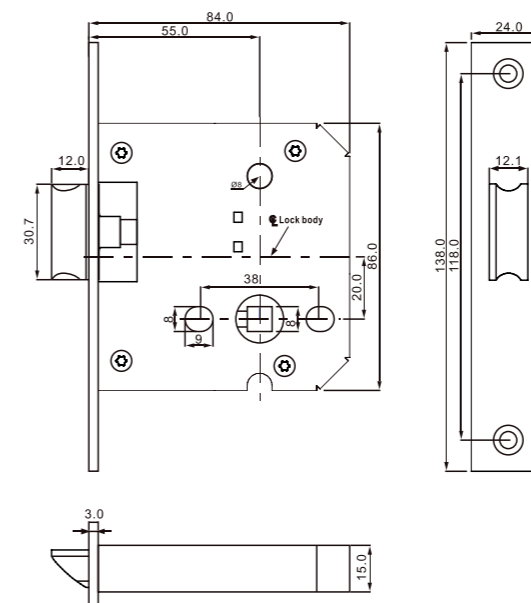
Center Distance	N/A
Backset Size	55 mm
Follower	8 x 8 mm
Follower Material	Stainless Steel 304
Deadbolt	No deadbolt
Deadbolt Material	N/A
Latch Type	Reversible Latch
Latch Material	Stainless Steel 304
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	138 mm
Forend	24 mm with straight corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	30 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18251.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



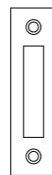
Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Stainless Steel 304 Bathroom Bolt

Application

- European DIN style casing designed for use with privacy turn and emergency release.
- Bolt-through fixing holes for security roses.
- SECC galvanized steel lockcase assembled with stainless steel 304 Torx screws.
- Thumbturn follower made from stainless steel 304 (available as 8x8 mm or 5x5 mm).
- Single throw deadbolt made from stainless steel 304 extending 20.5 mm when key is turned once.
- Forend made from 3 mm thick stainless steel 304, available in 24 mm width with straight corners (possible other sizes and styles, minimums apply).
- Supplied with clear plastic splinter guard for improved esthetics (white or black available upon request).
- Supplied with strike plate made from stainless steel 304.
- Supplied with grade 304 stainless steel fixing screws for timber doors (metal door screws available upon request).



CE Classification 3X910G - B020



Operation

- From the inside:
- Deadbolt operated by privacy thumbturn.

- From the outside:
- Deadbolt can be unlocked with a coin (or straight screw-driver tip) operated emergency release, sold separately.

Specification

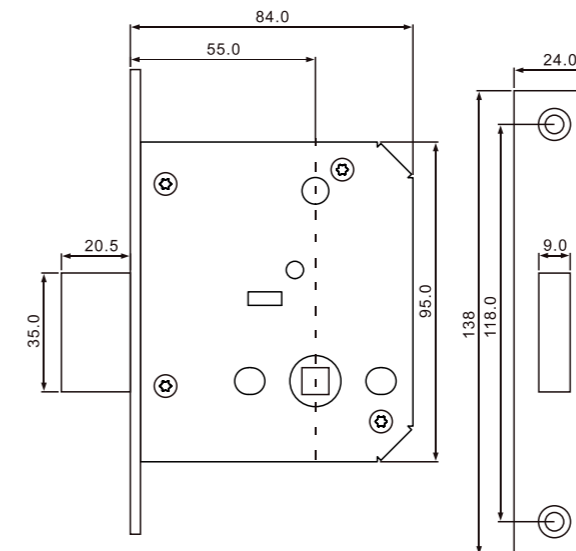
Center Distance	N/A
Backset Size	55 mm
Follower	8 x 8 mm or 5 x 5 mm
Follower Material	Stainless Steel 304
Deadbolt	20.5 mm single throw
Deadbolt Material	Stainless Steel 304
Latch Type	No Latch
Latch Material	N/A
Lockcase Thickness	15 mm
Lockcase Material	SECC Galvanized Steel
Forend Length	138 mm
Forend	24 mm with straight corners
Forend Thickness	3 mm
Forend Material	Stainless steel 304
Strike Plate Thickness	1.5 mm
Strike Plate Material	Stainless Steel 304
Packaging	30 Units per Carton

Certification

- 10 year warranty: The performance of this product and all its variants is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 12209:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.

Digit	Grade	Description
1 st	3	Designed for use by the public where there is little incentive to exercise care and where there is a high chance of misuse. This is the highest possible grade according to EN 12209:2003 standards.
2 nd	X	Passed 200,000 test cycles with a 120 N force applied to the latch bolt while it is being withdrawn. This is the highest possible grade according to EN 12209:2003 standards.
3 rd	9	Designed for doors with mass above 200 kg and closes with a force of 15 N from a standing start. This is the highest possible grade according to EN 12209:2003 standards.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	G	Very high corrosion resistance (240 hours NSS salt spray testing) satisfying the temperature requirement from -10 °C to +60 °C. This is the highest possible grade according to EN 12209:2003 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

SPS72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
SPS725520C	55	84	20 mm with Round Corners
SPS725520D	55	84	20 mm with Straight Corners
SPS725522C	55	84	22 mm with Round Corners
SPS725522D	55	84	22 mm with Straight Corners
SPS725524C	55	84	24 mm with Round Corners
SPS725524D	55	84	24 mm with Straight Corners
SPS726020C	60	89	20 mm with Round Corners
SPS726020D	60	89	20 mm with Straight Corners
SPS726022C	60	89	22 mm with Round Corners
SPS726022D	60	89	22 mm with Straight Corners
SPS726024C	60	89	24 mm with Round Corners
SPS726024D	60	89	24 mm with Straight Corners
SPS726520C	65	94	20 mm with Round Corners
SPS726520D	65	94	20 mm with Straight Corners
SPS726522C	65	94	22 mm with Round Corners
SPS726522D	65	94	22 mm with Straight Corners
SPS726524C	65	94	24 mm with Round Corners
SPS726524D	65	94	24 mm with Straight Corners

FPS85			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPS854520C	45	74	20 mm with Round Corners
FPS854520D	45	74	20 mm with Straight Corners
FPS854522C	45	74	22 mm with Round Corners
FPS854522D	45	74	22 mm with Straight Corners
FPS854524C	45	74	24 mm with Round Corners
FPS854524D	45	74	24 mm with Straight Corners
FPS855020C	50	79	20 mm with Round Corners
FPS855020D	50	79	20 mm with Straight Corners
FPS855022C	50	79	22 mm with Round Corners
FPS855022D	50	79	22 mm with Straight Corners
FPS855024C	50	79	24 mm with Round Corners
FPS855024D	50	79	24 mm with Straight Corners
FPS855520C	55	84	20 mm with Round Corners
FPS855520D	55	84	20 mm with Straight Corners
FPS855522C	55	84	22 mm with Round Corners
FPS855522D	55	84	22 mm with Straight Corners
FPS855524C	55	84	24 mm with Round Corners
FPS855524D	55	84	24 mm with Straight Corners
FPS856020C	60	89	20 mm with Round Corners
FPS856020D	60	89	20 mm with Straight Corners
FPS856022C	60	89	22 mm with Round Corners
FPS856022D	60	89	22 mm with Straight Corners
FPS856024C	60	89	24 mm with Round Corners
FPS856024D	60	89	24 mm with Straight Corners

FPS72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPS725020C	50	79	20 mm with Round Corners
FPS725020D	50	79	20 mm with Straight Corners
FPS725022C	50	79	22 mm with Round Corners
FPS725022D	50	79	22 mm with Straight Corners
FPS725024C	50	79	24 mm with Round Corners
FPS725024D	50	79	24 mm with Straight Corners
FPS725520C	55	84	20 mm with Round Corners
FPS725520D	55	84	20 mm with Straight Corners
FPS725522C	55	84	22 mm with Round Corners
FPS725522D	55	84	22 mm with Straight Corners
FPS725524C	55	84	24 mm with Round Corners
FPS725524D	55	84	24 mm with Straight Corners
FPS726020C	60	89	20 mm with Round Corners
FPS726020D	60	89	20 mm with Straight Corners
FPS726022C	60	89	22 mm with Round Corners
FPS726022D	60	89	22 mm with Straight Corners
FPS726024C	60	89	24 mm with Round Corners
FPS726024D	60	89	24 mm with Straight Corners
FPS726520C	65	94	20 mm with Round Corners
FPS726520D	65	94	20 mm with Straight Corners
FPS726522C	65	94	22 mm with Round Corners
FPS726522D	65	94	22 mm with Straight Corners
FPS726524C	65	94	24 mm with Round Corners
FPS726524D	65	94	24 mm with Straight Corners
FPS727020C	70	99	20 mm with Round Corners
FPS727020D	70	99	20 mm with Straight Corners
FPS727022C	70	99	22 mm with Round Corners
FPS727022D	70	99	22 mm with Straight Corners
FPS727024C	70	99	24 mm with Round Corners
FPS727024D	70	99	24 mm with Straight Corners
FPS728020C	80	109	20 mm with Round Corners
FPS728020D	80	109	20 mm with Straight Corners
FPS728022C	80	109	22 mm with Round Corners
FPS728022D	80	109	22 mm with Straight Corners
FPS728024C	80	109	24 mm with Round Corners
FPS728024D	80	109	24 mm with Straight Corners

FPR85			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPR855020D	50	79	20 mm with Straight Corners
FPR855022D	50	79	22 mm with Straight Corners
FPR855024D	50	79	24 mm with Straight Corners
FPR855520D	55	84	20 mm with Straight Corners
FPR855522D	55	84	22 mm with Straight Corners
FPR855524D	55	84	24 mm with Straight Corners

FPR72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPR725520C	55	84	20 mm with Round Corners
FPR725520D	55	84	20 mm with Straight Corners
FPR725522C	55	84	22 mm with Round Corners
FPR725522D	55	84	22 mm with Straight Corners
FPR725524C	55	84	24 mm with Round Corners
FPR725524D	55	84	24 mm with Straight Corners
FPR726020C	60	89	20 mm with Round Corners
FPR726020D	60	89	20 mm with Straight Corners
FPR726022C	60	89	22 mm with Round Corners
FPR726022D	60	89	22 mm with Straight Corners
FPR726024C	60	89	24 mm with Round Corners
FPR726024D	60	89	24 mm with Straight Corners

FPN72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPN725520C	55	84	20 mm with Round Corners
FPN725520D	55	84	20 mm with Straight Corners
FPN725522C	55	84	22 mm with Round Corners
FPN725522D	55	84	22 mm with Straight Corners
FPN725524C	55	84	24 mm with Round Corners
FPN725524D	55	84	24 mm with Straight Corners
FPN726020C	60	89	20 mm with Round Corners
FPN726020D	60	89	20 mm with Straight Corners
FPN726022C	60	89	22 mm with Round Corners
FPN726022D	60	89	22 mm with Straight Corners
FPN726024C	60	89	24 mm with Round Corners
FPN726024D	60	89	24 mm with Straight Corners
FPN726520C	65	94	20 mm with Round Corners
FPN726520D	65	94	20 mm with Straight Corners
FPN726522C	65	94	22 mm with Round Corners
FPN726522D	65	94	22 mm with Straight Corners
FPN726524C	65	94	24 mm with Round Corners
FPN726524D	65	94	24 mm with Straight Corners

FPL72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPL725520C	55	84	20 mm with Round Corners
FPL725520D	55	84	20 mm with Straight Corners
FPL725522C	55	84	22 mm with Round Corners
FPL725522D	55	84	22 mm with Straight Corners
FPL725524C	55	84	24 mm with Round Corners
FPL725524D	55	84	24 mm with Straight Corners
FPL726020C	60	89	20 mm with Round Corners
FPL726020D	60	89	20 mm with Straight Corners
FPL726022C	60	89	22 mm with Round Corners
FPL726022D	60	89	22 mm with Straight Corners
FPL726024C	60	89	24 mm with Round Corners
FPL726024D	60	89	24 mm with Straight Corners
FPL726520C	65	94	20 mm with Round Corners
FPL726520D	65	94	20 mm with Straight Corners
FPL726522C	65	94	22 mm with Round Corners
FPL726522D	65	94	22 mm with Straight Corners
FPL726524C	65	94	24 mm with Round Corners
FPL726524D	65	94	24 mm with Straight Corners

FPD72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPD725520C	55	84	20 mm with Round Corners
FPD725520D	55	84	20 mm with Straight Corners
FPD725522C	55	84	22 mm with Round Corners
FPD725522D	55	84	22 mm with Straight Corners
FPD725524C	55	84	24 mm with Round Corners
FPD725524D	55	84	24 mm with Straight Corners
FPD726020C	60	89	20 mm with Round Corners
FPD726020D	60	89	20 mm with Straight Corners
FPD726022C	60	89	22 mm with Round Corners
FPD726022D	60	89	22 mm with Straight Corners
FPD726024C	60	89	24 mm with Round Corners
FPD726024D	60	89	24 mm with Straight Corners
FPD726520C	65	94	20 mm with Round Corners
FPD726520D	65	94	20 mm with Straight Corners
FPD726522C	65	94	22 mm with Round Corners
FPD726522D	65	94	22 mm with Straight Corners
FPD726524C	65	94	24 mm with Round Corners
FPD726524D	65	94	24 mm with Straight Corners

FPC72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPC725520C	55	84	20 mm with Round Corners
FPC725520D	55	84	20 mm with Straight Corners
FPC725522C	55	84	22 mm with Round Corners
FPC725522D	55	84	22 mm with Straight Corners
FPC725524C	55	84	24 mm with Round Corners
FPC725524D	55	84	24 mm with Straight Corners

FPB78			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPB785520C	55	84	20 mm with Round Corners
FPB785520D	55	84	20 mm with Straight Corners
FPB785522C	55	84	22 mm with Round Corners
FPB785522D	55	84	22 mm with Straight Corners
FPB785524C	55	84	24 mm with Round Corners
FPB785524D	55	84	24 mm with Straight Corners
FPB786020C	60	89	20 mm with Round Corners
FPB786020D	60	89	20 mm with Straight Corners
FPB786022C	60	89	22 mm with Round Corners
FPB786022D	60	89	22 mm with Straight Corners
FPB786024C	60	89	24 mm with Round Corners
FPB786024D	60	89	24 mm with Straight Corners
FPB786520C	65	94	20 mm with Round Corners
FPB786520D	65	94	20 mm with Straight Corners
FPB786522C	65	94	22 mm with Round Corners
FPB786522D	65	94	22 mm with Straight Corners
FPB786524C	65	94	24 mm with Round Corners
FPB786524D	65	94	24 mm with Straight Corners

FPB72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FPB726020C	60	89	20 mm with Round Corners
FPB726020D	60	89	20 mm with Straight Corners
FPB726022C	60	89	22 mm with Round Corners
FPB726022D	60	89	22 mm with Straight Corners
FPB726024C	60	89	24 mm with Round Corners
FPB726024D	60	89	24 mm with Straight Corners

FDC72			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FDC726524C	65	84	24 mm with Round Corners

FHB55			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FHB5524D	55	84	24 mm with Straight Corners

FHD55			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FHD5524D	55	84	24 mm with Straight Corners

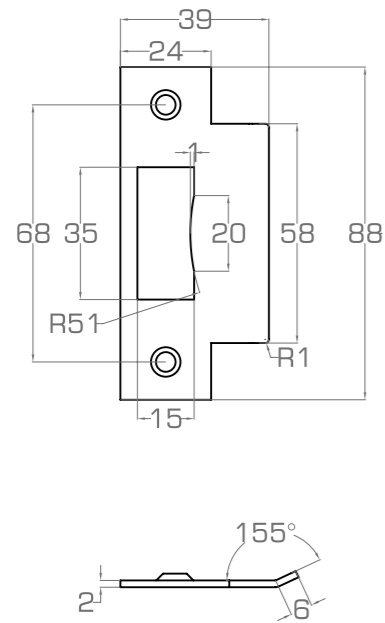
FHL55			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FHL5524D	55	84	24 mm with Straight Corners

FHR55			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FHR5524D	55	84	24 mm with Straight Corners

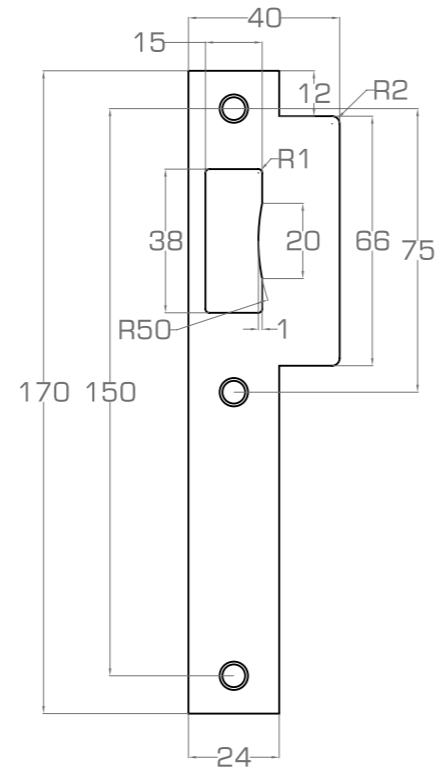
FHS50			
Catalog Part#	Backset (mm)	Lockcase Depth (mm)	Forend
FHS5016C	50	68	16 mm with Round Corners



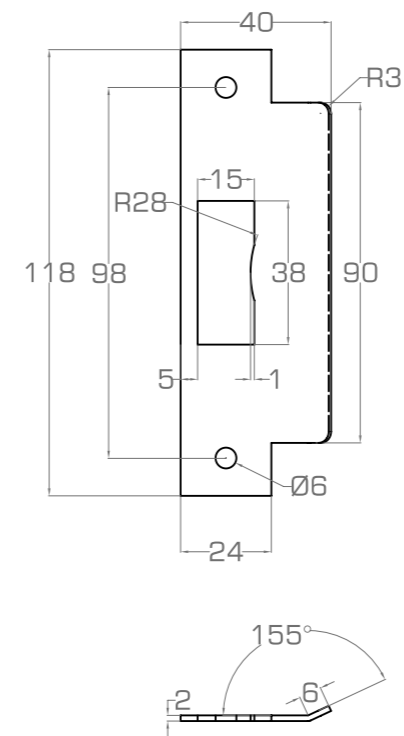
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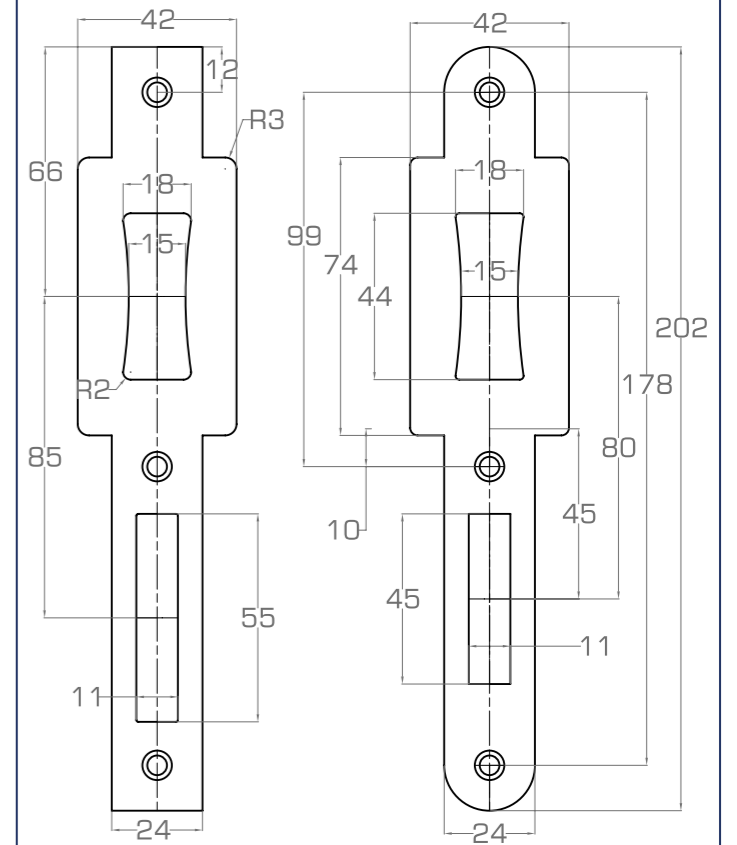
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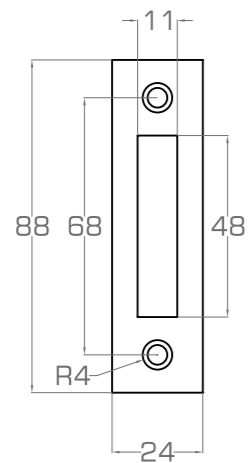
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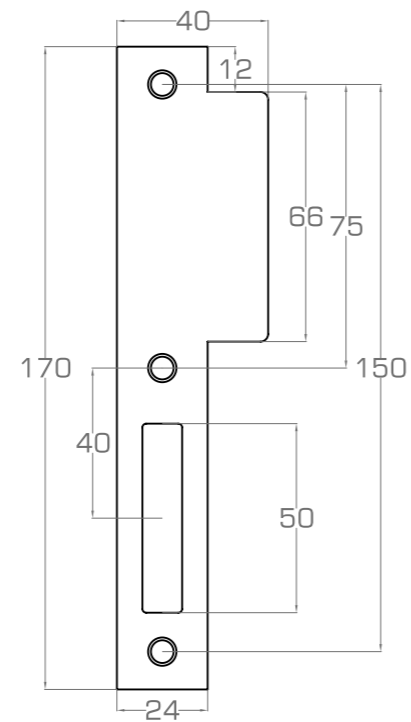
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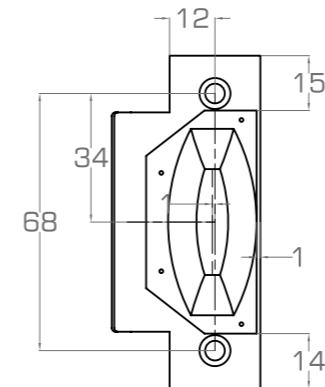
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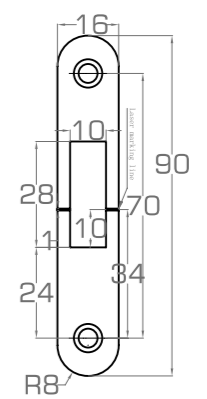
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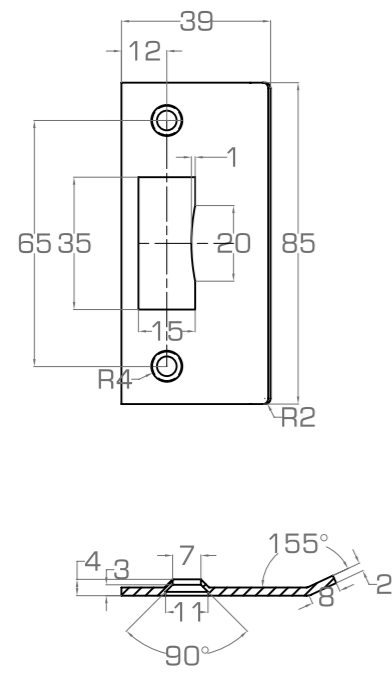
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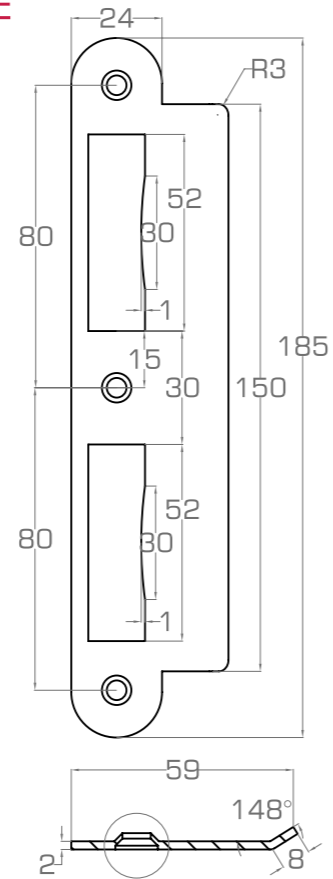
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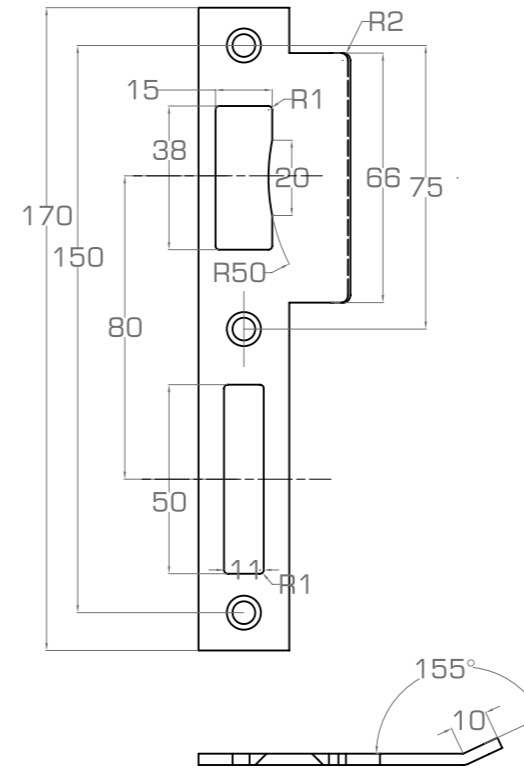
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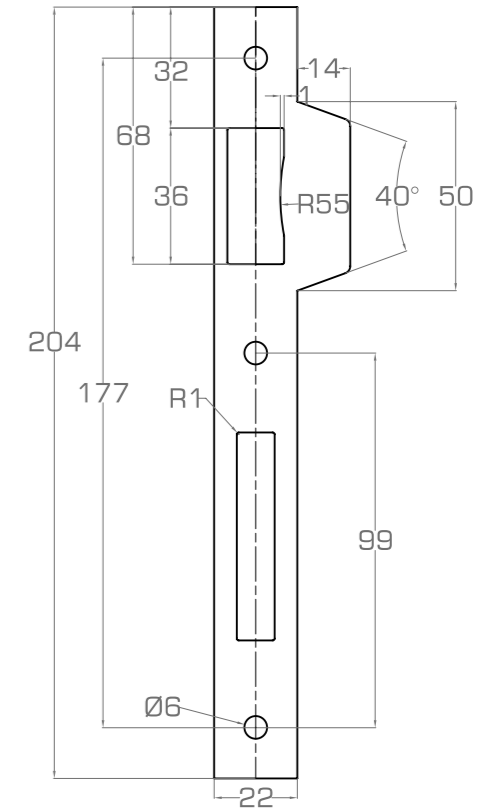
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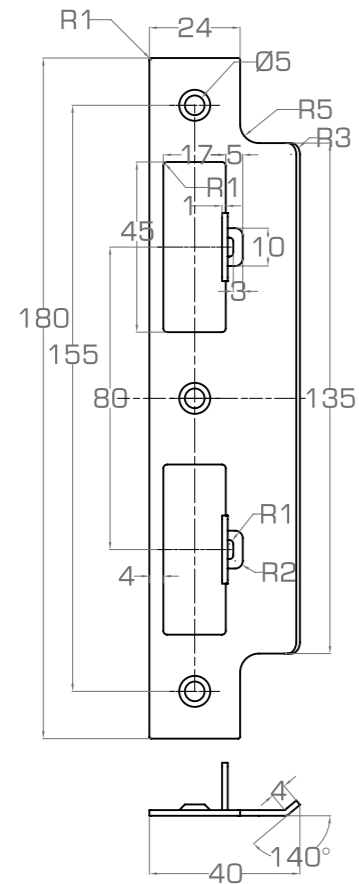
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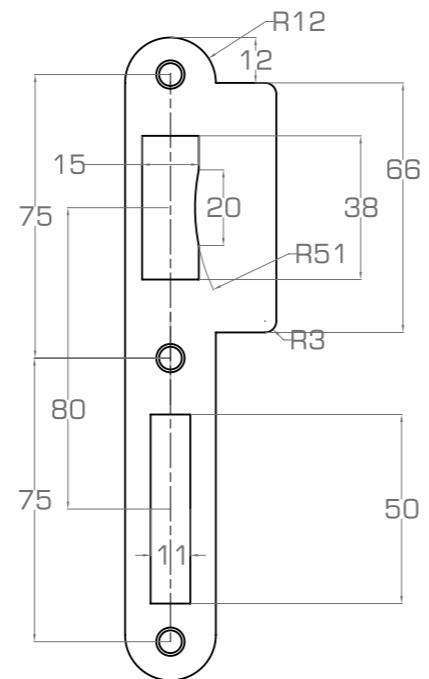
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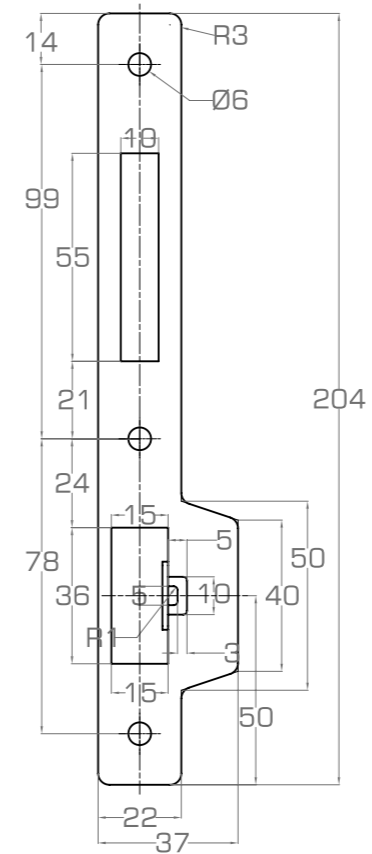
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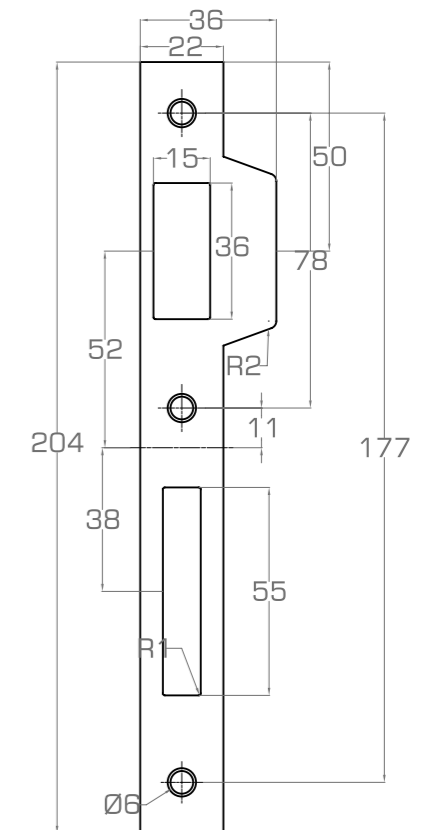
TC TYPE



TF TYPE

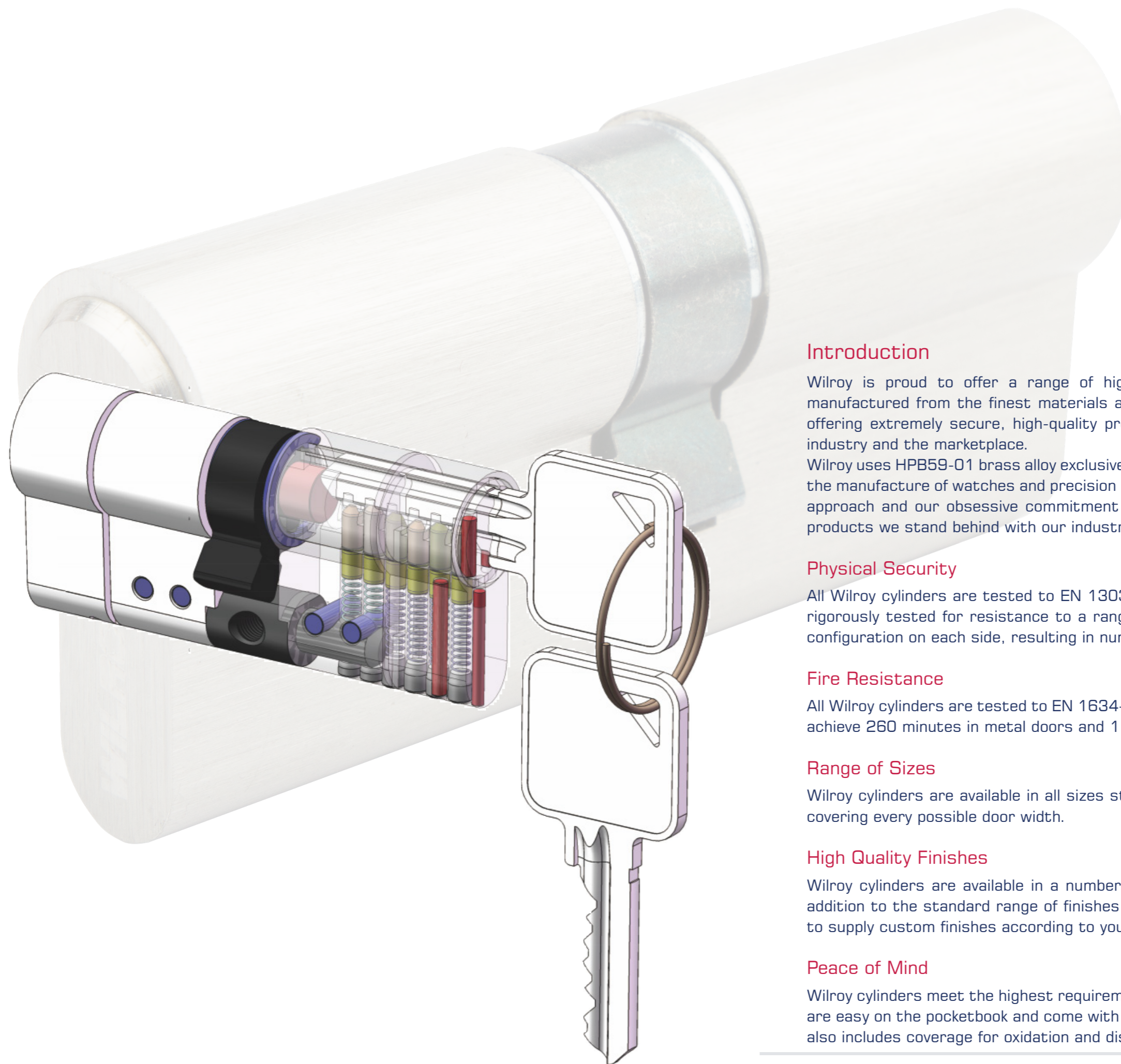


TH TYPE





EURO CYLINDERS



Introduction

Wilroy is proud to offer a range of high-quality Euro profile cylinders. Wilroy cylinders are manufactured from the finest materials according to the most advanced production processes, offering extremely secure, high-quality products that meet the demanding requirements of the industry and the marketplace.

Wilroy uses HPB59-01 brass alloy exclusively in its cylinders, a superior material usually employed in the manufacture of watches and precision instruments. This, paired with our Smart Manufacturing approach and our obsessive commitment to quality control, makes available to you outstanding products we stand behind with our industry-leading warranty.

Physical Security

All Wilroy cylinders are tested to EN 1303:2005 to ensure the highest quality. The cylinders are rigorously tested for resistance to a range of physical attacks. All of our cylinders have a 6-pin configuration on each side, resulting in numerous key configurations or differs.

Fire Resistance

All Wilroy cylinders are tested to EN 1634-1:2014 for suitability of use on fire doors. Our cylinders achieve 260 minutes in metal doors and 111 minutes in timber doors.

Range of Sizes

Wilroy cylinders are available in all sizes starting from 30/30 up to 80/80 with 5 mm increments covering every possible door width.

High Quality Finishes

Wilroy cylinders are available in a number of high-quality finishes to meet your requirements. In addition to the standard range of finishes suitable for most of today's décor trends, we are able to supply custom finishes according to your needs (some minimums apply).

Peace of Mind

Wilroy cylinders meet the highest requirements for the protection of your property and family. They are easy on the pocketbook and come with Wilroy's 10-year hassle-free warranty. A warranty that also includes coverage for oxidation and discoloration, coverage unmatched by any competitor.

Your lock cylinder is often your last line of defense against intruders. You do not want it to be the weak point in your home security.

In addition to using spare keys “hidden” outside homes, burglars often use lock-picking methods to gain access to your property. But these techniques are not the only challenges that face lock security. Current studies show that about 40% of burglaries involve forcing a door lock, and burglaries involving lock snapping and lock bumping have received increased news coverage in the last few years.

The problem was created as millions of entrance doors were fitted – for lack of foresight or because the world used to be a safer place - with standard 5-pin cylinders. These cylinders are adequate for internal doors but absolutely unacceptable for external entrances. They have no built-in security or resistance against physical attacks, making it easier for the burglar, who is ever on the lookout for the property’s weakest point.

Lock snapping is when a burglar spots a cylinder of the wrong size fitted to the door, and a large section of the cylinder sticks out. The burglar can grip the end of the cylinder protruding through the key hole and simply apply pressure to ‘snap’ the cylinder in the middle where it is screwed into the lock — and then simply pull it out of the door. Always choose the right size cylinder for the thickness of your door. Wilroy offers cylinders ranging from 6 cm to 16 cm, both offset and in equal length.

Even worse is lock bumping. If the lock cylinder is “bumped,” the burglar simply uses their bump key to compromise your lock. The pins “jump” and the lock can be opened with the bump key. You may not even realize you have had a break-in until you notice that things are missing. The problem then is that no sign of forced entry may not make filing a police report seem logical. Yet with no crime to report, and no police report, an insurance claim may not be approved.

So you get the idea. In short, your entrance door cylinder needs to withstand six types of attack:

- Drilling
- Snapping
- Plug Extraction
- Picking
- Bumping
- Twisting

Wilroy’s BCA Series cylinders have built-in features to withstand all six types of attack — in addition to restricting the copying of keys. Wilroy’s lock cylinders provide you superior security, have received the highest grade possible under strict international standards, are fire rated, have a warranty of 10 years (including oxidation and discoloration) and, remarkably, they are more budget-friendly than comparable products offered by our competitors.

Wilroy also offers lock solutions for interior doors, those requiring less stringent security. We recommend choosing from Wilroy’s standard lock series for interior doors. These locks are also top graded, fire-rated, contain 6 pins per side and offer the same hassle-free, 10-year warranty.

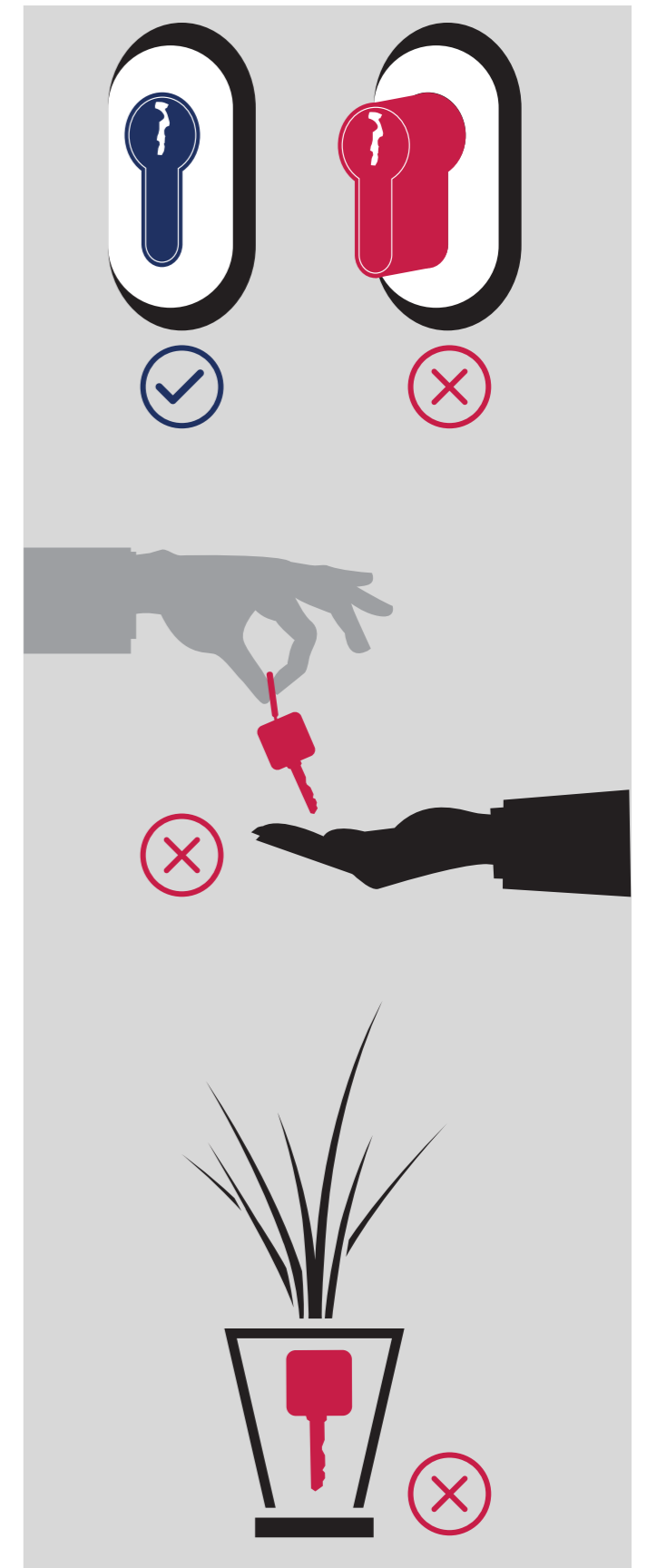


To keep your home secure, we recommend taking these simple but necessary steps:

- Fit your entrance doors with high security cylinders.
- Choose the correct length for the door.
- Change the main cylinders when you move in.
- Never leave spare keys lying around.
- Never give your keys to tradespeople.
- Only give spare keys to cautious and trustworthy friends.

Preventative Measures:

- Never use the key to pull the door open or pull it shut.
- Never force the key when operating the deadbolt or latch.
- Never use pliers or similar tools to turn the key.



Standards and Certification

EN 1303:2015 – Cylinders for Locks

CE Classification

DIGIT 1	DIGIT 2	DIGIT 3	DIGIT 4	DIGIT 5	DIGIT 6	DIGIT 7	DIGIT 8

Digit 1 – Category of Use

One category of use is identified:

- Grade 1: For use by people with a high incentive to exercise care and a small chance of misuse.

Digit 2 – Durability

Three grades are identified according to the number of test cycles achieved:

- Grade 4: 25,000 cycles.
- Grade 5: 50,000 cycles.
- Grade 6: 100,000 cycles.

Digit 3 - Door Mass

- Grade 0: No requirement.

Digit 4 - Fire Resistance

Three grades are identified as follows:

- Grade 0: Not approved for use on fire resistant/smoke control door assemblies.
- Grade A: Suitable for use on smoke control door assemblies.
- Grade B: Suitable for use in fire resistant and smoke control doors.

Digit 5 – Safety

- Grade 0: No requirement.

Digit 6 – Corrosion and Temperature Resistance

Four grades are identified as follows:

- Grade 0: No corrosion requirement; no temperature requirement.
- Grade A: High corrosion resistance; no temperature requirement.
- Grade B: No corrosion requirement; temperature requirement from -25 °C to +65 °C.
- Grade C: High corrosion resistance; temperature requirement from -25 °C to +65 °C.

Digit 7 – Key Related Security

	Grade					
	1	2	3	4	5	6
Minimum number of effective differs	100	300	15,000	30,000	30,000	100,000
Minimum number of movable retainers	2	3	5	5	6	6

Digit 8 – Attack Resistance

	Grade					Unit
	0	A	B	C	D	
Resistance to drilling	-	3 - 5	5 - 10	3 - 5	5 - 10	Minutes
Resistance to attack by chisel	-	30	40	30	40	Tries
Resistance to attack by twisting	-	20	30	20	30	Tries
Resistance to attack by plug/cylinder extraction	-	-	-	10	15	KN
				5 - 10	5 - 15	Minutes
Torque resistance of plug/cylinder	-	20	30	20	30	Nm

Evidence of Performance

Cylinders for locks as per EN 1303 : 2015-08

Expert Statement

18-004323-PR08
(GAS-G04-11-en-01)



Client Wilroy Tools & Hardware, LLC
500 Delaware Ave, Ste 1-1960
19899 Wilmington,
United States of America

Basis
EN 1303: 2015-08 – Building
hardware - Cylinders for locks –
Requirements and test methods

Product Profile cylinder
Designation BC Series 60-120 mm

BK Series 60-95 mm

BS Series 45-55 mm

Test report No.:
18-004323-PR01 (PB-G04-03-en-02) dated 09.10.2019
18-004323-PR02 (PB-G04-03-en-02) dated 09.10.2019
18-004323-PR03 (PB-G04-03-en-02) dated 09.10.2019
18-004323-PR04 (PB-G04-03-en-02) dated 09.10.2019
Expert Statement No.:
18-004323-PR05 (GAS-G04-11-en-02) dated 11.10.2019

Performance-relevant product details
Cylinder length : different length see Typelist
Cylinder housing material : Brass
Cylinder plug material : Brass
Cylinder plug diameter : 12,9 mm
Product designation: Profile cylinder with 6
detainers

Construction documents
Annex 1.

Validity
The expert statement will lose its
validity with the validity of one of
the above basis
(Norm and test report).

Result
Classification according to EN 1303 : 2015-08

Category of use	Durability	Door mass	Fire resistance	Safety	Corrosion resistance and temperature	Key related Security	Attack resistance
1	6	0	B	0	C	4	0

Notes on publication
The ift-Guidance "Advertising
with ift test documents" applies

The cover sheet can not be used
as an abstract.

Content
The expert statement contains a
total of 1 page.

Cover sheet

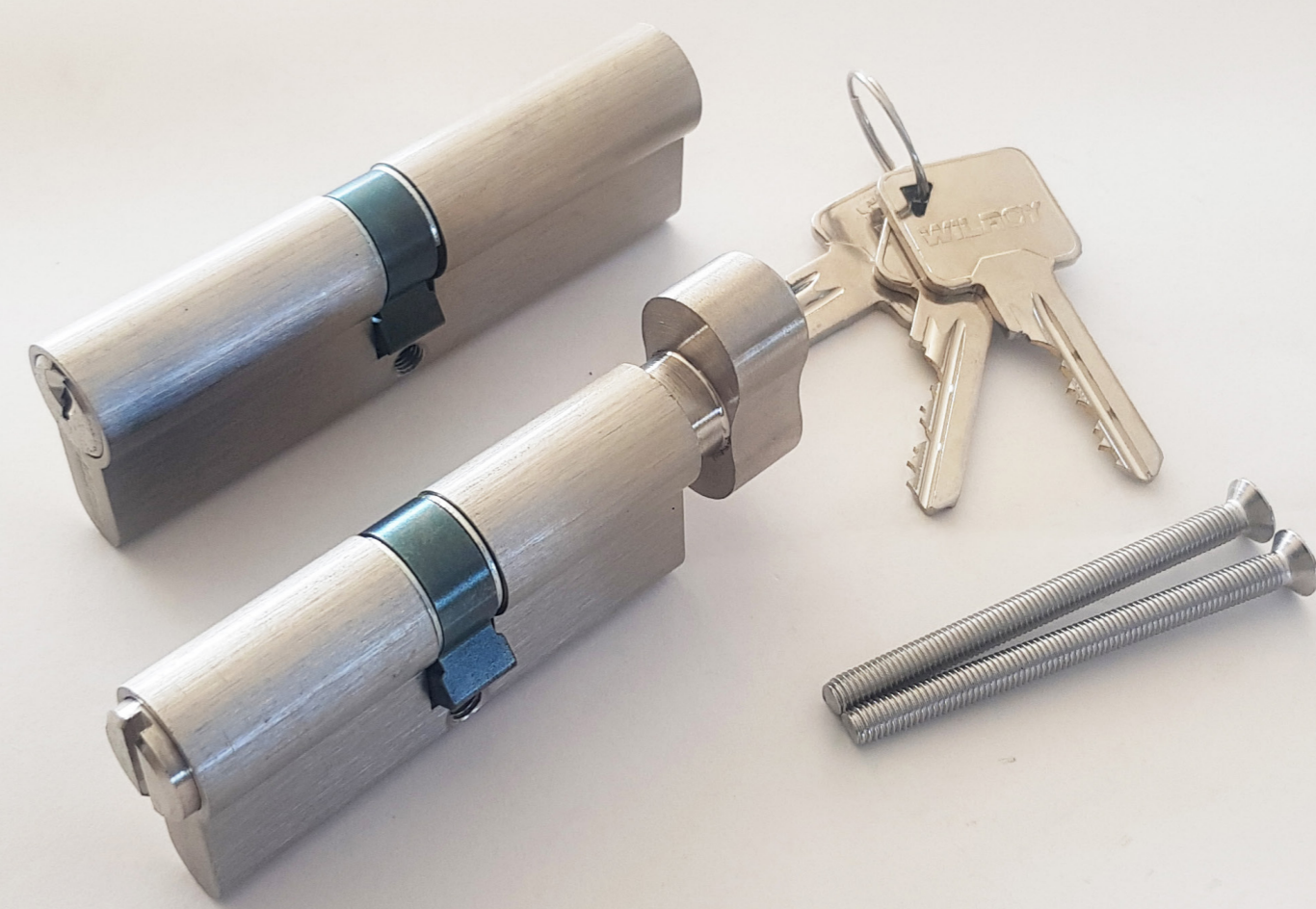
ift Rosenheim
24.10.2019

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www.ift-rosenheim.de

Testing and Calibration – EN ISO/IEC 17025
Inspection – EN ISO/IEC 17020
Product Certification – EN ISO/IEC 17065
Certification of Management Systems – EN ISO/IEC 17021



Fire Rated High Security Brass Euro Double Cylinder



Specification

- Key-key type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/30, available in 5 mm increments up to 80/80, both in offset and equal lengths.
- Passed over 100,000 test cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.
- Supplied with 5 nickel-plated brass keys.

CE Classification 160B0C40



Keyway	Mapped
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	5 Nickel-plated 2.2 mm Solid Brass Keys
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

Security Features

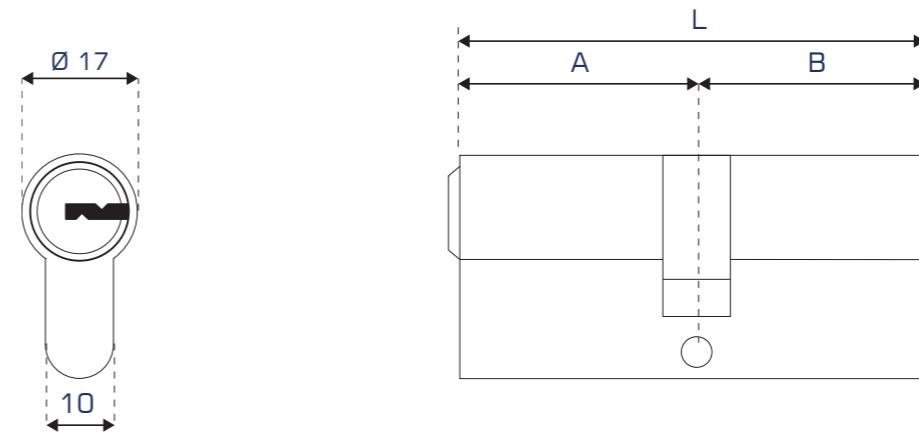
- 6+6 movable pins (detainers) allowing for higher security with over 100,000 different combinations.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.
- Anti-duplication keyway: Prevents the illegal duplication of keys with the latest dimple key technology.
- Anti-snap: Divided into sections, it prevents access to the lock after breaking off the external section. Intruders cannot gain entry but the lock remains functional with a key from the inside.
- Anti-pick: Specially designed pins so that if anything other than the appropriate key was used to infiltrate the cylinder, it would catch on the pins and prevent the cylinder from unlocking.
- Anti-bump: Using a shallow pin stack prevents the pins from jumping if a bump key was forced into the cylinders.
- Anti-drill: Using a set of plates and 10 concealed steel pins, the integrity of the cylinders is protected if attacked by a drill.
- Anti-twist: With a sophisticated multi-part mechanism, twisting off the cylinder will not move the cam controlling the lock.
- Anti-plug pull: The core cannot be extracted from the cylinder thanks to strengthened steel circlips that hold the core in place.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	4	Minimum of 5 movable elements within the cylinder, resulting in more than 30,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Security Brass Euro Double Cylinder



Specification

- Key-key type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/30, available in 5 mm increments up to 80/80, both in offset and equal lengths.
- Passed over 100,000 cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.
- Supplied with 5 nickel-plated brass keys.

CE Classification

1	6	0	B	0	C	4	0
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Keyway	Mapped
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	5 Nickel-plated 2.2 mm Solid Brass Keys
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

Security Features

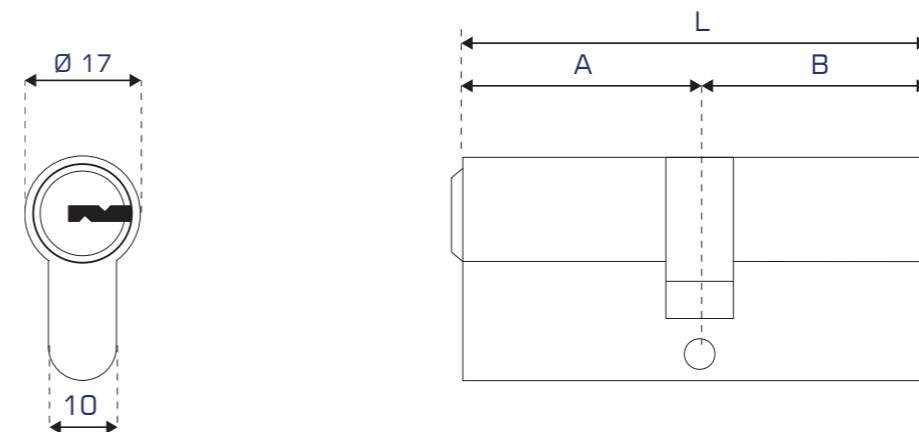
- 6+6 movable pins (detainers) allowing for higher security with over 100,000 different combinations.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.
- Anti-duplication keyway: Prevents the illegal duplication of keys.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	4	Minimum of 5 movable elements within the cylinder, resulting in more than 30,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Standard Brass Euro Double Cylinder



Specification

- Key-key type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/30, available in 5 mm increments up to 80/80, both in offset and equal lengths.
- Passed over 100,000 cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.
- Supplied with 3 nickel-plated brass keys.
- Key alike (KA) and master keyed (MK) cylinders available (as special order).

Keyway	Classic
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	3 Nickel-plated 2.2 mm Solid Brass Keys
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

CE Classification 160B0C40



Security Features

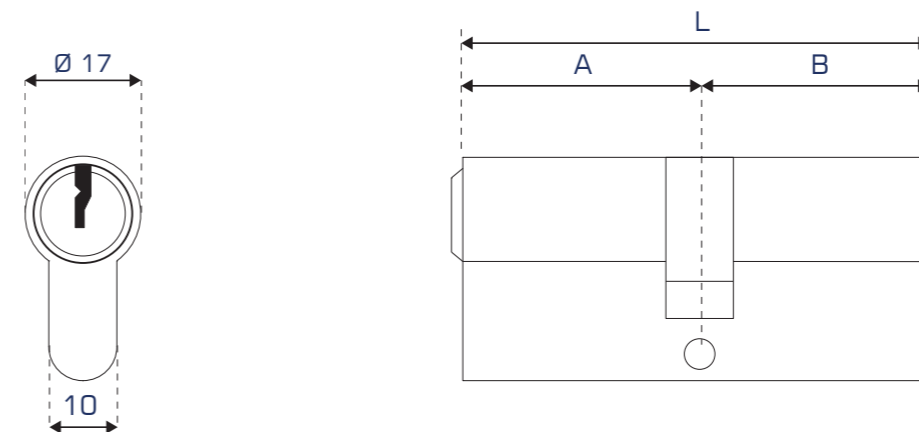
- 6+6 movable pins (detainers) allowing for higher security with over 100,000 different combinations.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	4	Minimum of 5 movable elements within the cylinder, resulting in more than 30,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Security Brass Euro Key and Turn Cylinder



Specification

- Key-knob type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/30, available in 5 mm increments up to 80/80, both in offset and equal lengths.
- Passed over 100,000 cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.
- Supplied with 5 nickel-plated brass keys.

CE Classification 160B0C40



Keyway	Mapped
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	5 Nickel-plated 2.2 mm Solid Brass Keys
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

Security Features

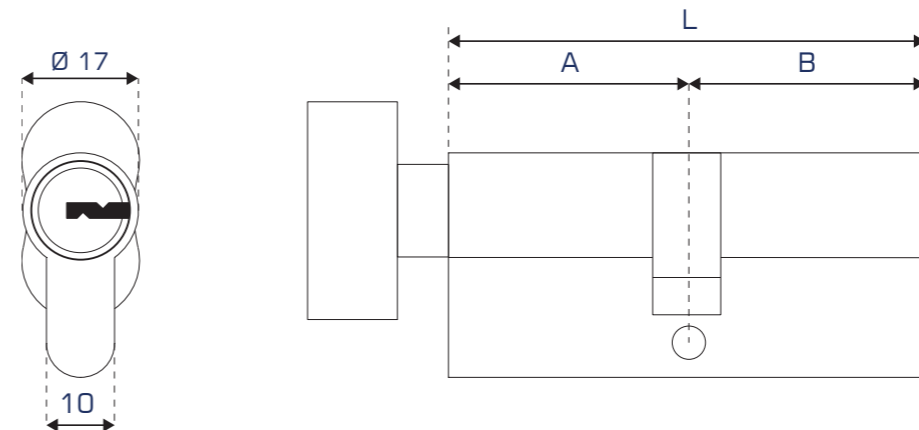
- 6 movable pins (detainers) allowing for higher security with over 100,000 different combinations.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.
- Anti-duplication keyway: Prevents the illegal duplication of keys.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	4	Minimum of 5 movable elements within the cylinder, resulting in more than 30,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Standard Euro Key and Turn Brass Cylinder



Specification

- Key-knob type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/30, available in 5 mm increments up to 80/80, both in offset and equal lengths.
- Passed over 100,000 cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.
- Supplied with 3 nickel-plated brass keys.
- Key alike (KA) and master keyed (MK) cylinders available (as special order).

Keyway	Classic
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	3 Nickel-plated 2.2 mm Solid Brass Keys
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

CE Classification 160B0C60



Security Features

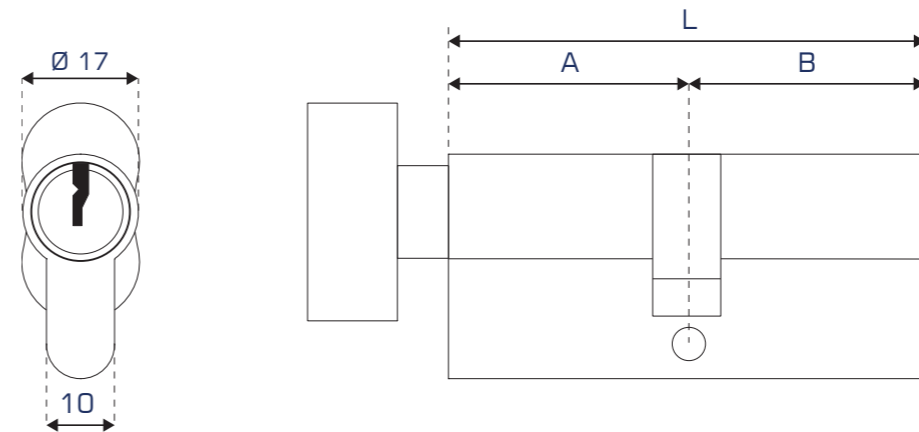
- 6 movable pins (detainers) allowing for higher security with over 100,000 different combinations.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	6	6 movable elements within the cylinder, resulting in more than 100,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination. This is the highest possible grade according to EN 1303:2015 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Standard Brass Bathroom Euro Cylinder



Specification

- Coin groove-knob type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/30, available in 5 mm increments up to 80/80, both in offset and equal lengths.
- Passed over 100,000 cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.

CE Classification 160B0C60



Keyway	Classic
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	No Keys Supplied
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

Security Features

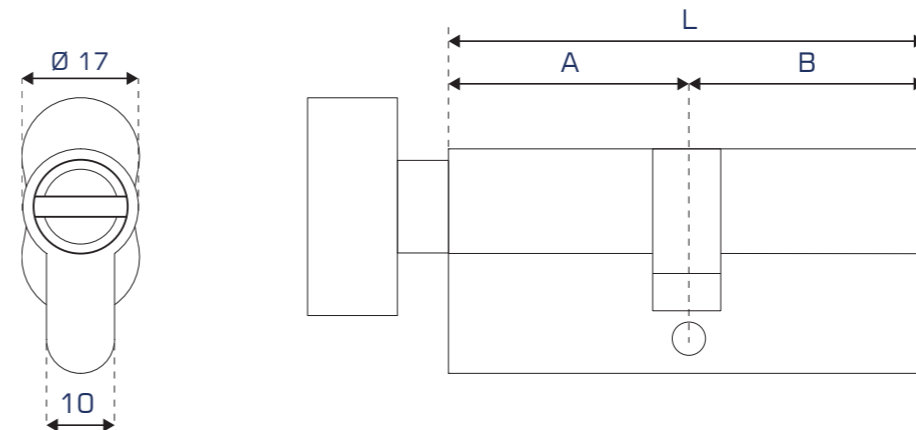
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	6	6 movable elements within the cylinder, resulting in more than 100,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination. This is the highest possible grade according to EN 1303:2015 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Security Brass Euro Single Cylinder



Specification

- Single type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/10, available in 5 mm increments up to 80/10, both in offset and equal lengths.
- Passed over 100,000 cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.
- Supplied with 5 nickel-plated brass keys.

CE Classification 160B0C60



Keyway	Mapped
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	5 Nickel-plated 2.2 mm Solid Brass Keys
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

Security Features

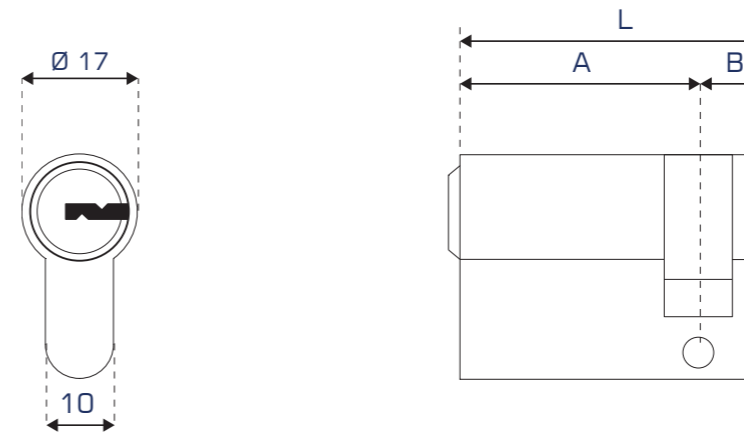
- 6 movable pins (detainers) allowing for higher security with over 100,000 different combinations.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.
- Anti-duplication keyway: Prevents the illegal duplication of keys.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	6	6 movable elements within the cylinder, resulting in more than 100,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination. This is the highest possible grade according to EN 1303:2015 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Fire Rated Standard Brass Euro Single Cylinder



Specification

- Single type cylinder compatible with all standard euro profile mortise locks.
- Length starts at 30/10, available in 5 mm increments up to 80/10, both in offset and equal lengths.
- Passed over 100,000 cycles in durability tests.
- Solid brass pins and stainless steel 304 springs for high precision and extended service life.
- Suitable for both indoor and outdoor applications due to high corrosion resistance even in extreme temperatures between -25 °C and +65 °C.
- Suitable for use on metal and timber fire doors.
- Supplied with 3 nickel-plated brass keys.
- Key alike (KA) and master keyed (MK) cylinders available (as special order).

Keyway	Classic
Material	HPB59-1 Brass
Section Size	Ø17x33x10 mm
Cam	R15 x 6.5 Sintered Steel
Pins	6 Movable Solid Brass Detainers
Keys	3 Nickel-plated 2.2 mm Solid Brass Keys
Fixing Screw	Stainless Steel 304 Fixing Screw
Packaging	50 Units per Carton

CE Classification **160B0C6D**

Security Features

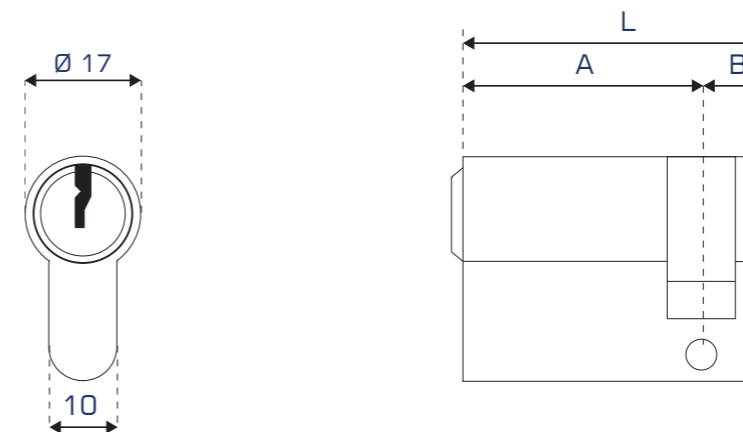
- 6 movable pins (detainers) allowing for higher security with over 100,000 different combinations.
- Sintered steel cam protrudes at 30° angle out of cylinder body when key is pulled out, making it impossible for the cylinder to be drawn out of lock by force.

Certification

- 10 year warranty: The performance of this product and all its variants are covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1303:2015.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.
- Fully compliant with DIN 18252.

Digit	Grade	Description
2 nd	6	Passed 100,000 test cycles. This is the highest possible grade according to EN 1303:2015 standards.
4 th	B	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	C	High corrosion resistance. Temperature requirement between -25 °C and +65 °C.
7 th	6	6 movable elements within the cylinder, resulting in more than 100,000 effective differs for the key with torque resistance of 15 Nm with no coding on key disclosing combination. This is the highest possible grade according to EN 1303:2015 standards.

Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

BCA			
Catalog#	A (mm)	B (mm)	Length
BCA3030	30	30	30/30
BCA3035	30	35	30/35
BCA3040	30	40	30/40
BCA3045	30	45	30/45
BCA3050	30	50	30/50
BCA3055	30	55	30/55
BCA3060	30	60	30/60
BCA3065	30	65	30/65
BCA3070	30	70	30/70
BCA3075	30	75	30/75
BCA3080	30	80	30/80
BCA3535	35	35	35/35
BCA3540	35	40	35/40
BCA3545	35	45	35/45
BCA3550	35	50	35/50
BCA3555	35	55	35/55
BCA3560	35	60	35/60
BCA3565	35	65	35/65
BCA3570	35	70	35/70
BCA3575	35	75	35/75
BCA3580	35	80	35/80
BCA4040	40	40	40/40
BCA4045	40	45	40/45
BCA4050	40	50	40/50
BCA4055	40	55	40/55
BCA4060	40	60	40/60
BCA4065	40	65	40/65
BCA4070	40	70	40/70
BCA4075	40	75	40/75
BCA4080	40	80	40/80
BCA4545	45	45	45/45
BCA4550	45	50	45/50
BCA4555	45	55	45/55
BCA4560	45	60	45/60
BCA4565	45	65	45/65
BCA4570	45	70	45/70
BCA4575	45	75	45/75
BCA4580	45	80	45/80
BCA5050	50	50	50/50
BCA5055	50	55	50/55
BCA5060	50	60	50/60
BCA5065	50	65	50/65
BCA5070	50	70	50/70
BCA5075	50	75	50/75
BCA5080	50	80	50/80
BCA5555	55	55	55/55

Catalog#	A (mm)	B (mm)	Length
BCA5560	55	60	55/60
BCA5565	55	65	55/65
BCA5570	55	70	55/70
BCA5575	55	75	55/75
BCA5580	55	80	55/80
BCA6060	60	60	60/60
BCA6065	60	65	60/65
BCA6070	60	70	60/70
BCA6075	60	75	60/75
BCA6080	60	80	60/80
BCA6565	65	65	65/65
BCA6570	65	70	65/70
BCA6575	65	75	65/75
BCA6580	65	80	65/80
BCA7070	70	70	70/70
BCA7075	70	75	70/75
BCA7080	70	80	70/80
BCA7575	75	75	75/75
BCA7580	75	80	75/80
BCA8080	80	80	80/80

BCS			
Catalog#	A (mm)	B (mm)	Length
BCS3030	30	30	30/30
BCS3035	30	35	30/35
BCS3040	30	40	30/40
BCS3045	30	45	30/45
BCS3050	30	50	30/50
BCS3055	30	55	30/55
BCS3060	30	60	30/60
BCS3065	30	65	30/65
BCS3070	30	70	30/70
BCS3075	30	75	30/75
BCS3080	30	80	30/80
BCS3535	35	35	35/35
BCS3540	35	40	35/40
BCS3545	35	45	35/45
BCS3550	35	50	35/50
BCS3555	35	55	35/55
BCS3560	35	60	35/60
BCS3565	35	65	35/65
BCS3570	35	70	35/70
BCS3575	35	75	35/75
BCS3580	35	80	35/80
BCS4040	40	40	40/40
BCS4045	40	45	40/45

Catalog#	A (mm)	B (mm)	Length
BCS4050	40	50	40/50
BCS4055	40	55	40/55
BCS4060	40	60	40/60
BCS4065	40	65	40/65
BCS4070	40	70	40/70
BCS4075	40	75	40/75
BCS4080	40	80	40/80
BCS4545	45	45	45/45
BCS4550	45	50	45/50
BCS4555	45	55	45/55
BCS4560	45	60	45/60
BCS4565	45	65	45/65
BCS4570	45	70	45/70
BCS4575	45	75	45/75
BCS4580	45	80	45/80
BCS5050	50	50	50/50
BCS5055	50	55	50/55
BCS5060	50	60	50/60
BCS5065	50	65	50/65
BCS5070	50	70	50/70
BCS5075	50	75	50/75
BCS5080	50	80	50/80
BCS5555	55	55	55/55
BCS5560	55	60	55/60
BCS5565	55	65	55/65
BCS5570	55	70	55/70
BCS5575	55	75	55/75
BCS5580	55	80	55/80
BCS6060	60	60	60/60
BCS6065	60	65	60/65
BCS6070	60	70	60/70
BCS6075	60	75	60/75
BCS6080	60	80	60/80
BCS6565	65	65	65/65
BCS6570	65	70	65/70
BCS6575	65	75	65/75
BCS6580	65	80	65/80
BCS7070	70	70	70/70
BCS7075	70	75	70/75
BCS7080	70	80	70/80
BCS7575	75	75	75/75
BCS7580	75	80	75/80
BCS8080	80	80	80/80

BCF			
Catalog#	A (mm)	B (mm)	Length
BCF3030	30	30	30/30
BCF3035	30	35	30/35
BCF3040	30	40	30/40
BCF3045	30	45	30/45
BCF3050	30	50	30/50
BCF3055	30	55	30/55
BCF3060	30	60	30/60
BCF3065	30	65	30/65
BCF3070	30	70	30/70
BCF3075	30	75	30/75
BCF3080	30	80	30/80
BCF3535	35	35	35/35
BCF3540	35	40	35/40
BCF3545	35	45	35/45
BCF3550	35	50	35/50
BCF3555	35	55	35/55
BCF3560	35	60	35/60
BCF3565	35	65	35/65
BCF3570	35	70	35/70
BCF3575	35	75	35/75
BCF3580	35	80	35/80
BCF4040	40	40	40/40
BCF4045	40	45	40/45
BCF4050	40	50	40/50
BCF4055	40	55	40/55
BCF4060	40	60	40/60
BCF4065	40	65	40/65
BCF4070	40	70	40/70
BCF4075	40	75	40/75
BCF4080	40	80	40/80
BCF4545	45	45	45/45
BCF4550	45	50	45/50
BCF4555	45	55	45/55
BCF4560	45	60	45/60
BCF4565	45	65	45/65
BCF4570	45	70	45/70
BCF4575	45	75	45/75
BCF4580	45	80	45/80
BCF5050	50	50	50/50
BCF5055	50	55	50/55
BCF5060	50	60	50/60
BCF5065	50	65	50/65
BCF5070	50	70	50/70
BCF5075	50	75	50/75
BCF5080	50	80	50/80
BCF5555	55	55	55/55

Catalog#	A (mm)	B (mm)	Length
BCF5560	55	60	55/60
BCF5565	55	65	55/65
BCF5570	55	70	55/70
BCF5575	55	75	55/75
BCF5580	55	80	55/80
BCF6060	60	60	60/60
BCF6065	60	65	60/65
BCF6070	60	70	60/70
BCF6075	60	75	60/75
BCF6080	60	80	60/80
BCF6565	65	65	65/65
BCF6570	65	70	65/70
BCF6575	65	75	65/75
BCF6580	65	80	65/80
BCF7070	70	70	70/70
BCF7075	70	75	70/75
BCF7080	70	80	70/80
BCF7575	75	75	75/75
BCF7580	75	80	75/80
BCF8080	80	80	80/80

BKS			
Catalog#	A (mm)	B (mm)	Length
BKS3030	30	30	30/30
BKS3035	30	35	30/35
BKS3040	30	40	30/40
BKS3045	30	45	30/45
BKS3050	30	50	30/50
BKS3055	30	55	30/55
BKS3060	30	60	30/60
BKS3065	30	65	30/65
BKS3070	30	70	30/70
BKS3075	30	75	30/75
BKS3080	30	80	30/80
BKS3530	35	30	35/30
BKS3535	35	35	35/35
BKS3540	35	40	35/40
BKS3545	35	45	35/45
BKS3550	35	50	35/50
BKS3555	35	55	35/55
BKS3560	35	60	35/60
BKS3565	35	65	35/65
BKS3570	35	70	35/70
BKS3575	35	75	35/75
BKS3580	35	80	35/80
BKS4030	40	30	40/30
BKS4035	40	35	40/35

Catalog#	A (mm)	B (mm)	Length
BKS4040	40	40	40/40
BKS4045	40	45	40/45
BKS4050	40	50	40/50
BKS4055	40	55	40/55
BKS4060	40	60	40/60
BKS4065	40	65	40/65
BKS4070	40	70	40/70
BKS4075	40	75	40/75
BKS4080	40	80	40/80
BKS4530	45	30	45/30
BKS4535	45	35	45/35
BKS4540	45	40	45/40
BKS4545	45	45	45/45
BKS4550	45	50	45/50
BKS4555	45	55	45/55
BKS4560	45	60	45/60
BKS4565	45	65	45/65
BKS4570	45	70	45/70
BKS4575	45	75	45/75
BKS4580	45	80	45/80
BKS5030	50	30	50/30
BKS5035	50	35	50/35
BKS5040	50	40	50/40
BKS5045	50	45	50/45
BKS5050	50	50	50/50
BKS5055	50	55	50/55
BKS5060	50	60	50/60
BKS5065	50	65	50/65
BKS5070	50	70	50/70
BKS5075	50	75	50/75
BKS5080	50	80	50/80
BKS5530	55	30	55/30
BKS5535	55	35	55/35
BKS5540	55	40	55/40
BKS5545	55	45	55/45
BKS5550	55	50	55/50
BKS5555	55	55	55/55
BKS5560	55	60	55/60
BKS5565	55	65	55/65
BKS5570	55	70	55/70
BKS5575	55	75	55/75
BKS5580	55	80	55/80
BKS6030	60	30	60/30
BKS6035	60	35	60/35
BKS6040	60	40	60/40
BKS6045	60	45	60/45
BKS6050	60	50	60/50

Catalog#	A (mm)	B (mm)	Length
BKS6055	60	55	60/55
BKS6060	60	60	60/60
BKS6065	60	65	60/65
BKS6070	60	70	60/70
BKS6075	60	75	60/75
BKS6080	60	80	60/80
BKS6530	65	30	65/30
BKS6535	65	35	65/35
BKS6540	65	40	65/40
BKS6545	65	45	65/45
BKS6550	65	50	65/50
BKS6555	65	55	65/55
BKS6560	65	60	65/60
BKS6565	65	65	65/65
BKS6570	65	70	65/70
BKS6575	65	75	65/75
BKS6580	65	80	65/80
BKS7030	70	30	70/30
BKS7035	70	35	70/35
BKS7040	70	40	70/40
BKS7045	70	45	70/45
BKS7050	70	50	70/50
BKS7055	70	55	70/55
BKS7060	70	60	70/60
BKS7065	70	65	70/65
BKS7070	70	70	70/70
BKS7075	70	75	70/75
BKS7080	70	80	70/80
BKS7530	75	30	75/30
BKS7535	75	35	75/35
BKS7540	75	40	75/40
BKS7545	75	45	75/45
BKS7550	75	50	75/50
BKS7555	75	55	75/55
BKS7560	75	60	75/60
BKS7565	75	65	75/65
BKS7570	75	70	75/70
BKS7575	75	75	75/75
BKS7580	75	80	75/80
BKS8030	80	30	80/30
BKS8035	80	35	80/35
BKS8040	80	40	80/40
BKS8045	80	45	80/45
BKS8050	80	50	80/50
BKS8055	80	55	80/55
BKS8060	80	60	80/60
BKS8065	80	65	80/65

Catalog#	A (mm)	B (mm)	Length
BKS8070	80	70	80/70
BKS8075	80	75	80/75
BKS8080	80	80	80/80

BKF			
Catalog#	A (mm)	B (mm)	Length
BKF3030	30	30	30/30
BKF3035	30	35	30/35
BKF3040	30	40	30/40
BKF3045	30	45	30/45
BKF3050	30	50	30/50
BKF3055	30	55	30/55
BKF3060	30	60	30/60
BKF3065	30	65	30/65
BKF3070	30	70	30/70
BKF3075	30	75	30/75
BKF3080	30	80	30/80
BKF3530	35	30	35/30
BKF3535	35	35	35/35
BKF3540	35	40	35/40
BKF3545	35	45	35/45
BKF3550	35	50	35/50
BKF3555	35	55	35/55
BKF3560	35	60	35/60
BKF3565	35	65	35/65
BKF3570	35	70	35/70
BKF3575	35	75	35/75
BKF3580	35	80	35/80
BKF4030	40	30	40/30
BKF4035	40	35	40/35
BKF4040	40	40	40/40
BKF4045	40	45	40/45
BKF4050	40	50	40/50
BKF4055	40	55	40/55
BKF4060	40	60	40/60
BKF4065	40	65	40/65
BKF4070	40	70	40/70
BKF4075	40	75	40/75
BKF4080	40	80	40/80
BKF4530	45	30	45/30
BKF4535	45	35	45/35
BKF4540	45	40	45/40
BKF4545	45	45	45/45
BKF4550	45	50	45/50
BKF4555	45	55	45/55
BKF4560	45	60	45/60
BKF4565	45	65	45/65

Catalog#	A (mm)	B (mm)	Length
BKF4570	45	70	45/70
BKF4575	45	75	45/75
BKF4580	45	80	45/80
BKF5030	50	30	50/30
BKF5035	50	35	50/35
BKF5040	50	40	50/40
BKF5045	50	45	50/45
BKF5050	50	50	50/50
BKF5055	50	55	50/55
BKF5060	50	60	50/60
BKF5065	50	65	50/65
BKF5070	50	70	50/70
BKF5075	50	75	50/75
BKF5080	50	80	50/80
BKF5530	55	30	55/30
BKF5535	55	35	55/35
BKF5540	55	40	55/40
BKF5545	55	45	55/45
BKF5550	55	50	55/50
BKF5555	55	55	55/55
BKF5560	55	60	55/60
BKF5565	55	65	55/65
BKF5570	55	70	55/70
BKF5575	55	75	55/75
BKF5580	55	80	55/80
BKF6030	60	30	60/30
BKF6035	60	35	60/35
BKF6040	60	40	60/40
BKF6045	60	45	60/45
BKF6050	60	50	60/50
BKF6055	60	55	60/55
BKF6060	60	60	60/60
BKF6065	60	65	60/65
BKF6070	60	70	60/70
BKF6075	60	75	60/75
BKF6080	60	80	60/80
BKF6530	65	30	65/30
BKF6535	65	35	65/35
BKF6540	65	40	65/40
BKF6545	65	45	65/45
BKF6550	65	50	65/50
BKF6555	65	55	65/55
BKF6560	65	60	65/60
BKF6565	65	65	65/65
BKF6570	65	70	65/70
BKF6575	65	75	65/75
BKF6580	65	80	65/80

Catalog#	A (mm)	B (mm)	Length
BKF7030	70	30	70/30
BKF7035	70	35	70/35
BKF7040	70	40	70/40
BKF7045	70	45	70/45
BKF7050	70	50	70/50
BKF7055	70	55	70/55
BKF7060	70	60	70/60
BKF7065	70	65	70/65
BKF7070	70	70	70/70
BKF7075	70	75	70/75
BKF7080	70	80	70/80
BKF7530	75	30	75/30
BKF7535	75	35	75/35
BKF7540	75	40	75/40
BKF7545	75	45	75/45
BKF7550	75	50	75/50
BKF7555	75	55	75/55
BKF7560	75	60	75/60
BKF7565	75	65	75/65
BKF7570	75	70	75/70
BKF7575	75	75	75/75
BKF7580	75	80	75/80
BKF8030	80	30	80/30
BKF8035	80	35	80/35
BKF8040	80	40	80/40
BKF8045	80	45	80/45
BKF8050	80	50	80/50
BKF8055	80	55	80/55
BKF8060	80	60	80/60
BKF8065	80	65	80/65
BKF8070	80	70	80/70
BKF8075	80	75	80/75
BKF8080	80	80	80/80

BKR			
Catalog#	A (mm)	B (mm)	Length
BKR3030	30	30	30/30
BKR3035	30	35	30/35
BKR3040	30	40	30/40
BKR3045	30	45	30/45
BKR3050	30	50	30/50
BKR3055	30	55	30/55
BKR3060	30	60	30/60
BKR3065	30	65	30/65
BKR3070	30	70	30/70
BKR3075	30	75	30/75
BKR3080	30	80	30/80

Catalog#	A (mm)	B (mm)	Length
BKR3530	35	30	35/30
BKR3535	35	35	35/35
BKR3540	35	40	35/40
BKR3545	35	45	35/45
BKR3550	35	50	35/50
BKR3555	35	55	35/55
BKR3560	35	60	35/60
BKR3565	35	65	35/65
BKR3570	35	70	35/70
BKR3575	35	75	35/75
BKR3580	35	80	35/80
BKR4030	40	30	40/30
BKR4035	40	35	40/35
BKR4040	40	40	40/40
BKR4045	40	45	40/45
BKR4050	40	50	40/50
BKR4055	40	55	40/55
BKR4060	40	60	40/60
BKR4065	40	65	40/65
BKR4070	40	70	40/70
BKR4075	40	75	40/75
BKR4080	40	80	40/80
BKR4530	45	30	45/30
BKR4535	45	35	45/35
BKR4540	45	40	45/40
BKR4545	45	45	45/45
BKR4550	45	50	45/50
BKR4555	45	55	45/55
BKR4560	45	60	45/60
BKR4565	45	65	45/65
BKR4570	45	70	45/70
BKR4575	45	75	45/75
BKR4580	45	80	45/80
BKR5030	50	30	50/30
BKR5035	50	35	50/35
BKR5040	50	40	50/40
BKR5045	50	45	50/45
BKR5050	50	50	50/50
BKR5055	50	55	50/55
BKR5060	50	60	50/60
BKR5065	50	65	50/65
BKR5070	50	70	50/70
BKR5075	50	75	50/75
BKR5080	50	80	50/80
BKR5530	55	30	55/30
BKR5535	55	35	55/35
BKR5540	55	40	55/40

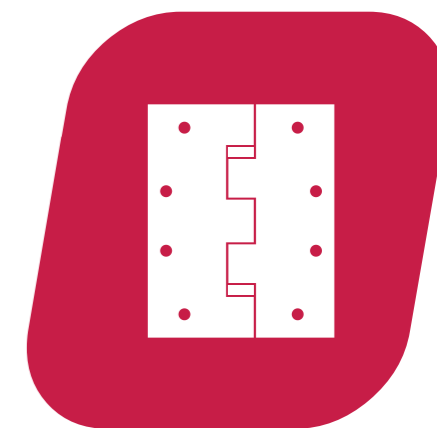
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BKR5550	55	50	55/50
BKR5555	55	55	55/55
BKR5560	55	60	55/60
BKR5565	55	65	55/65
BKR5570	55	70	55/70
BKR5575	55	75	55/75
BKR5580	55	80	55/80
BKR6030	60	30	60/30
BKR6035	60	35	60/35
BKR6040	60	40	60/40
BKR6045	60	45	60/45
BKR6050	60	50	60/50
BKR6055	60	55	60/55
BKR6060	60	60	60/60
BKR6065	60	65	60/65
BKR6070	60	70	60/70
BKR6075	60	75	60/75
BKR6080	60	80	60/80
BKR6530	65	30	65/30
BKR6535	65	35	65/35
BKR6540	65	40	65/40
BKR6545	65	45	65/45
BKR6550	65	50	65/50
BKR6555	65	55	65/55
BKR6560	65	60	65/60
BKR6565	65	65	65/65
BKR6570	65	70	65/70
BKR6575	65	75	65/75
BKR6580	65	80	65/80
BKR7030	70	30	70/30
BKR7035	70	35	70/35
BKR7040	70	40	70/40
BKR7045	70	45	70/45
BKR7050	70	50	70/50
BKR7055	70	55	70/55
BKR7060	70	60	70/60
BKR7065	70	65	70/65
BKR7070	70	70	70/70
BKR7075	70	75	70/75
BKR7080	70	80	70/80
BKR7530	75	30	75/30
BKR7535	75	35	75/35
BKR7540	75	40	75/40
BKR7545	75	45	75/45
BKR7550	75	50	75/50
BKR7555	75	55	75/55

Catalog#	A (mm)	B (mm)	Length
BKR7560	75	60	75/60
BKR7565	75	65	75/65
BKR7570	75	70	75/70
BKR7575	75	75	75/75
BKR7580	75	80	75/80
BKR8030	80	30	80/30
BKR8035	80	35	80/35
BKR8040	80	40	80/40
BKR8045	80	45	80/45
BKR8050	80	50	80/50
BKR8055	80	55	80/55
BKR8060	80	60	80/60
BKR8065	80	65	80/65
BKR8070	80	70	80/70
BKR8075	80	75	80/75
BKR8080	80	80	80/80

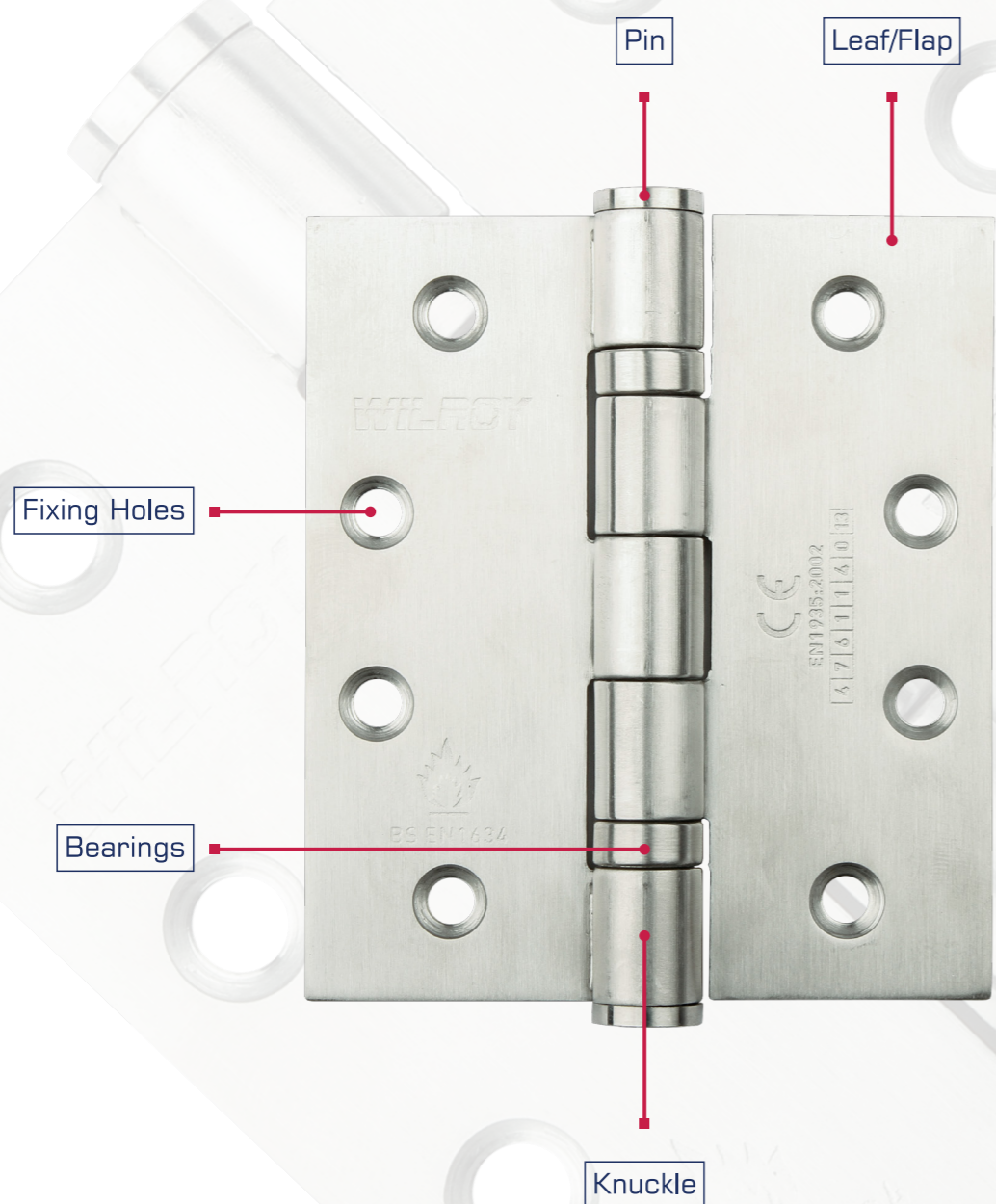
BSS			
Catalog#	A (mm)	B (mm)	Length
BSS3010	30	10	30/10
BSS3510	35	10	35/10
BSS4010	40	10	40/10
BSS4510	45	10	45/10
BSS5010	50	10	50/10
BSS5510	55	10	55/10
BSS6010	60	10	60/10
BSS6510	65	10	65/10
BSS7010	70	10	70/10
BSS7510	75	10	75/10
BSS8010	80	10	80/10

BSF			
Catalog#	A (mm)	B (mm)	Length
BSF3010	30	10	30/10
BSF3510	35	10	35/10
BSF4010	40	10	40/10
BSF4510	45	10	45/10
BSF5010	50	10	50/10
BSF5510	55	10	55/10
BSF6010	60	10	60/10
BSF6510	65	10	65/10
BSF7010	70	10	70/10
BSF7510	75	10	75/10
BSF8010	80	10	80/10





BUTT HINGES



Introduction

Wilroy offers a range of fire-rated stainless steel 304 hinges specially designed to the highest architectural specifications. These hinges are heavy duty and can be used with door closers and other entry/exit control devices.

Our range of door hinges is concentrated on commercial applications and includes all of the hinges required for these projects. Wilroy corrosion resistant hinges exceed 200,000 test cycles on 265 pound (120 kg) doors and are reasonably priced. These prices allow many of our customers to bring this heavy-duty, industrial performance to their residences as well.

Top Quality

Wilroy hinges are fully compliant with the requirements of EN 1935:2002 and are graded to the highest tiers in all categories. Made from stainless steel 304, they are guaranteed not to rust, change color, or underperform, even outdoors.

Fire Resistance

Wilroy hinges are fire resistant to 260 minutes. That's 4 hours and 20 minutes. This outstanding performance can further be increased with the application of intumescent kits (available separately).

Quality Finishes

Wilroy hinges are available in a number of high-quality finishes to suit your requirements. The available finishes are listed for every product. In addition to the standard range of finishes suitable for most of today's décor trends, we are able to supply custom finishes according to your special needs (some minimums apply).

Peace of Mind

Wilroy hinges come with Wilroy's 10-year, hassle-free warranty that includes coverage for oxidation and discoloration, coverage unmatched by any competitor.

- We recommend the use of 2 hinges for doors up to 5' (152 cm) and an additional hinge for every 2.5' (76 cm) of door, or fraction thereof.
- Internal domestic doors that are light in weight can be fitted with only 2 hinges.
- Doors with a security function need to have at least 3 hinges, as this makes them more difficult to force.
- Fire regulations require fire doors be fitted with 3 hinges (which must be 4 inch fire certified hinges).
- For doors over 7' (210 cm) tall, 4 hinges can be used to prevent warping of the door. Consider any other factors that increase the loadings of hinges and their fixings: extra wide doors, door closers and potential for high levels of use and abuse, e.g. schools and hospitals.
- For unusually high, wide or heavy doors, always consult your door manufacturer directly for their recommendation on the number, size and positioning of hinges.

Hinge Positioning - U.S. standard procedure:

Top hinge:

5" (127 mm) from the door top to the top of the hinge.

Third hinge:

At equal distance between top and bottom hinges.

Bottom hinge:

10" (254 mm) from the door bottom to the bottom of the hinge.

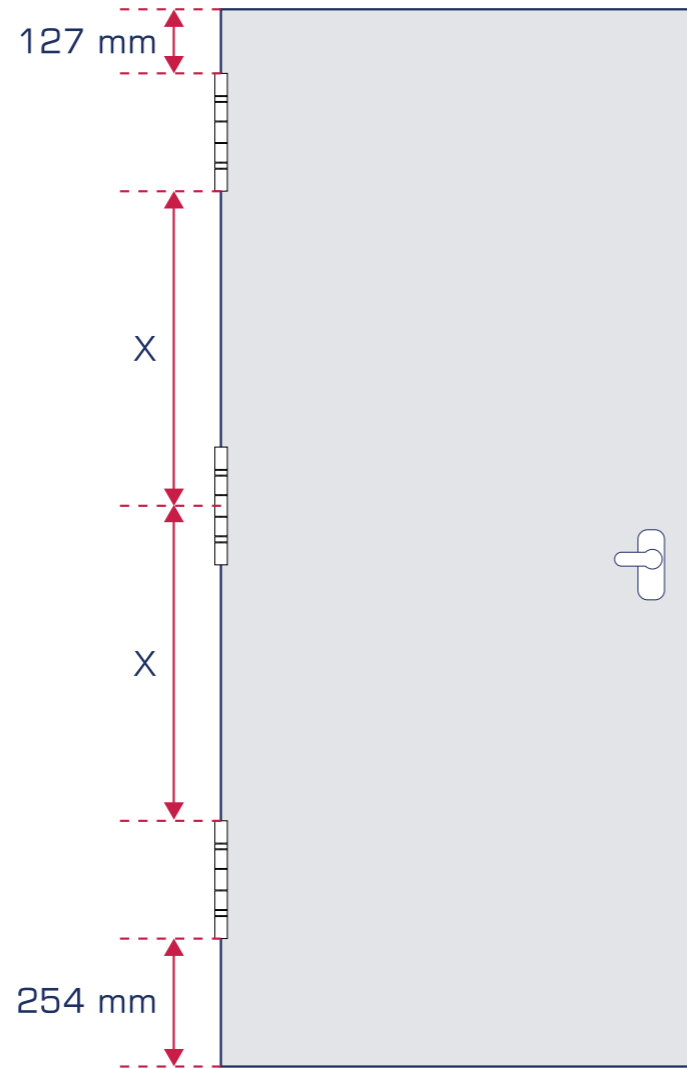


Figure 1

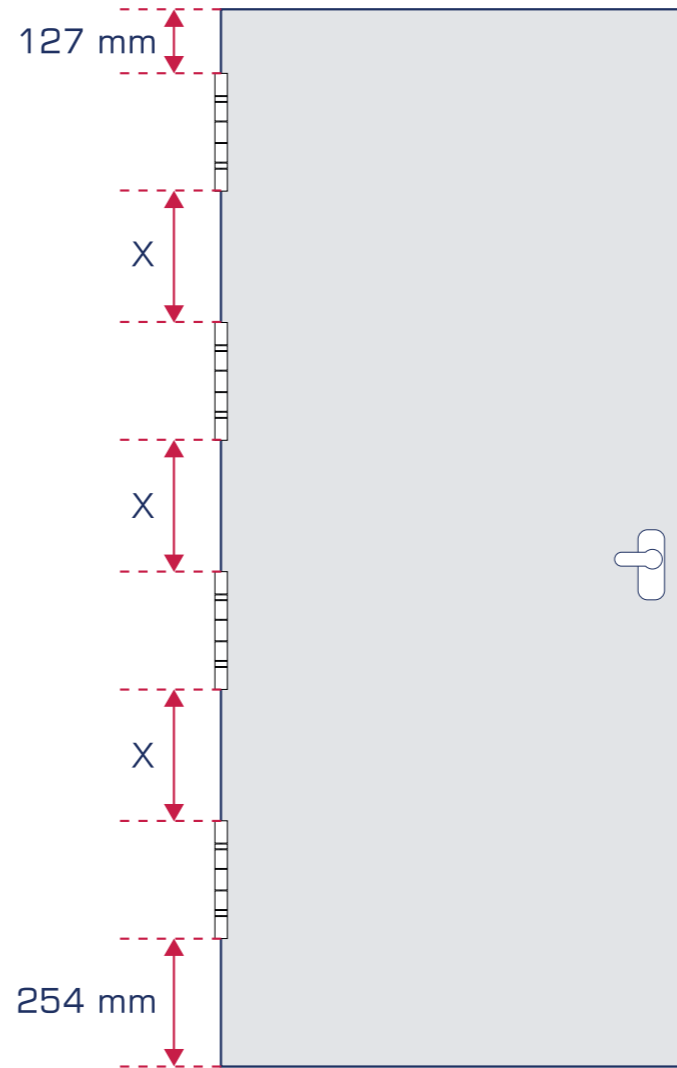


Figure 2

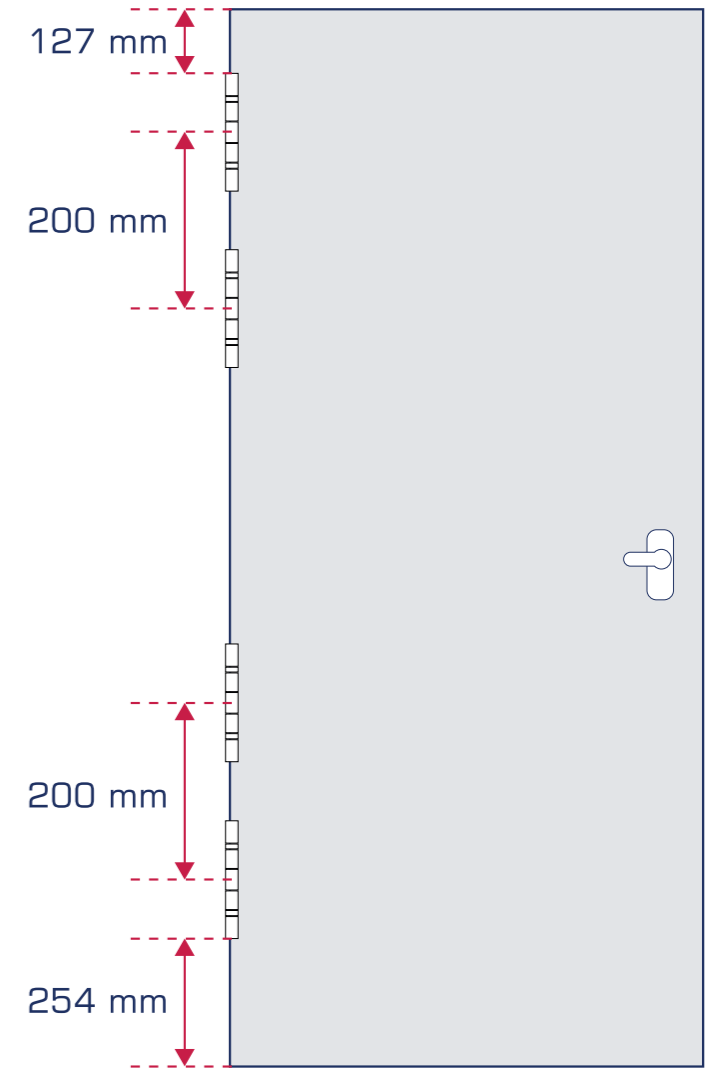


Figure 3

Fourth Hinge:

- If the door is over 7' (210 cm), of medium weight and without door closers, we recommend that all 4 hinges be equally spaced to prevent warping (figure 2).
- For heavy doors, or doors equipped with a door closer, and in order to improve load bearing, we recommend that the fourth hinge be installed where the distance between its center and the center of the top hinge is approximately 8 inches (200 mm) (figure 3).

Standards and Certification

EN 1935:2002 – Single-axis Hinges

CE Classification

DIGIT 1	DIGIT 2	DIGIT 3	DIGIT 4	DIGIT 5	DIGIT 6	DIGIT 7	DIGIT 8
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Digit 1 - Category of Use

Four categories of use are identified:

- Grade 1: Light duty.
- Grade 2: Medium duty.
- Grade 3: Heavy duty.
- Grade 4: Severe duty.

Digit 2 - Durability

Three grades are identified for single-axis hinges manufactured to this European standard:

- Grade 3: 10,000 test cycles, for light duty hinges on windows only.
- Grade 4: 25,000 test cycles, for light duty hinges on windows and doors.
- Grade 7: 200,000 test cycles, for medium, heavy and severe duty hinges on doors only.

Digit 3 - Door Mass

Eight door mass grades related to single-axis hinges are identified in this European standard as shown in Table 1 below:

Table 1

Hinge Grade	Door Mass
0	10 kg
1	20 kg
2	40 kg
3	60 kg
4	80 kg
5	100 kg
6	120 kg
7	160 kg

Digit 4 - Suitability for Fire/Smoke Door Use

Two grades of suitability are identified for single-axis hinges:

- Grade 0: not suitable for fire/smoke resistant door assemblies.
- Grade 1: suitable for fire/smoke resistant doors.

Digit 5 - Safety

Single-axis hinges are required to satisfy the essential requirements of safety in use. Therefore, only grade 1 is identified.

Digit 6 - Corrosion Resistance

Five grades of corrosion resistance are identified in accordance with EN 1670:

- Grade 0: no defined corrosion resistance.
- Grade 1: mild resistance.
- Grade 2: moderate resistance.
- Grade 3: high resistance.
- Grade 4: very high resistance.

Digit 7 - Security

Two grades of security are identified for single-axis hinges:

- Grade 0: not suitable for use on burglar-resistant door assemblies.
- Grade 1: suitable for applications requiring a degree of security.

Digit 8 - Hinge Grade

Fourteen grades are identified in this European standard and are detailed in Table 2 below:

Table 2

Hinge Grade	Usage	Test Cycles	Door Mass
1	Window	10,000	10 kg
2	Window	10,000	20 kg
3	Window/Door	25,000	20 kg
4	Door	200,000	20 kg
5	Window	10,000	40 kg
6	Window/Door	25,000	40 kg
7	Door	200,000	40 kg
8	Window	10,000	60 kg
9	Window/Door	25,000	60 kg
10	Door	200,000	60 kg
11	Door	200,000	80 kg
12	Door	200,000	100 kg
13	Door	200,000	120 kg
14	Door	200,000	160 kg



Certificate of constancy of performance

0359-CPR-00752-01

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 the Construction Products Regulation, this certificate applies to the construction product.

Applicant Name & Address: Placed on the market under the name or trademark of **Wilroy tools & Hardware, LLC**, 500 Delaware Ave, Ste 1-1960 Wilmington, DE 19899, United States of America (USA). and produced in the manufacturing plant **A030**.

Product Description: **Building hardware - Single-axis hinges**
Intended Use: When used with an appropriate door closing device on fire and/or smoke control doors to fulfil the self-closing requirement of such doors, and thereafter to ensure that the door remains shut.

Brand Name and Model(s) / Product families Standard(s)/Directive(s): HFT40303, HFT40353, HFT40403, HFT45403, HFT50303, HFT50353, HFT50403, **Refer to Appendix 1 for full details.**
 This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s) **EN 1935:2002/AC:2003** under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.



This certificate was first issued on 21st May 2019 under CPR (305/2011) and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with them. Once compliance with all product relevant "CE" mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Performance themselves and applying the mark to products identical to the tested sample(s).

Verification Issuing Office Name & Address: **INTERTEK TESTING & CERTIFICATION LIMITED.**, Registered No. 3272281, Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom. Website: www.intertek.com
Test Report Number(s): **170821052GZU-001, 171101005SHF-BP-1, 171101005SHF-BP-2**
 Additional information in Appendix 1; related to harmonised product standard

Name: David Bigland

Position: Head of Notified Body, CPR-BP

Date: 21-May-2019

Signature

This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



APPENDIX 1. Certificate of Constancy of performance

0359-CPR-00752-01

Table A1. Product description for single axis hinges from Wilroy tools & Hardware, LLC.

Model No. ^{1,2,3}	Dimensions			Material ³
	L (inches)	W (inches)	T (mm)	
HFT40303	4	3	3	SS304
HFT40353	4	3.5	3	SS304
HFT40403	4	4	3	SS304
HFT45403	4.5	4	3	SS304
HFT50303	5	3	3	SS304
HFT50353	5	3.5	3	SS304
HFT50403	5	4	3	SS304

Notes.

- 2 ball bearings butt hinge
- Five knuckles for each model
- European Designation (EN) *Austenitic Stainless Steel 1.4301 and 1.4401 (EN10088-1:2014 List of stainless steels)*

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Supporting test reports for this certificate are as follows:

Table A2. Mechanical test reports & product classification for hinges from Wilroy tools & Hardware, LLC.

Test Report	Model tested	Product Classification								
		4	7	6	1 ^b	1	4	0	13	
170821052GZU-001	HFT40303, HFT50403	4	7	6	1 ^b	1	4	0	13	
Model numbers assessed as having same performance: models listed in Table A1 above.										

Table A3. Fire test report(s) for hinges from Wilroy tools & Hardware, LLC.

Test Report	Model tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation(I)
171101005SHF-BP-2	HFT40303	EN 1634-1:2014	260	17
Test configuration: Single leaf single action swing steel fire door assembly Orientation: Open away the furnace.				
171101004SHF-BP-1	HFT50403	EN 1634-1:2014	111	111
Test configuration: Single leaf single action swing timber fire door assembly Orientation: Open away the furnace.				
Model numbers assessed as having same performance: models listed in Table A1 above.				

Notes:

- a. The single axis hinges shall be installed in accordance with the installation instructions for the product(s).
- b. Digit 4 grade "1" was based on the test result from fire resistance test(s) (refer to Table A3).
- c. This certificate of constancy of performance, refers to the requirements for the product(s) described under the CPR. There may be other European Directives, where requirements need to be declared before CE marking can be affixed by the manufacturer or their authorised representative

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Table A4. Essential characteristics for Single axis hinges (EN 1935:2002/ AC:2003) for Wilroy tools & Hardware, LLC.

Product:	Single-axis hinges as defined in clause 1 of this standard.	
Intended uses:	On fire/smoke compartmentation doors fitted with door closing devices (to enable such doors to close reliably and thus achieve self-closing in the event of fire)	
Requirement / characteristic	Requirement clauses in this European Standard	Results
Self-closing	5.1 Initial friction torque	Less than 4,0 Nm with door mass 120 kg
	5.2 Static Load - Load deformation	Pass with a displacement under load: - Lateral < 4 mm; - Vertical < 2 mm And a residual displacement after unloading: - Lateral < 0,2 mm; - Vertical < 0,3 mm
	5.2 Static Load - Overload	Pass
	5.3 Shear strength	Pass No breakage and cracking Lateral deformation under loading < 3 mm Additional lateral and vertical displacement after unloading < 1 mm
Durability	5.6 Hinges for use on fire-resistant and/or smoke-control doors	Grade 1: suitable for use on fire/smoke resistant door assemblies (refer to Table A3).
	5.4 Durability	Pass (200,000 cycles) Maximum wear: - Lateral < 0,2 mm - Vertical < 1 mm Maximum frictional torque: - After 20 cycles and completion of 200,000 cycles less than 4,0 Nm.
	5.5 Corrosion resistance	Grade 4, Neutral Salt Spray (NSS) – 240 hours
Dangerous substances	Note 1 of ZA 1	No dangerous substances declared for this product/intended use

END OF DOCUMENT

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Stainless Steel 304 Fire Rated Butt Hinges



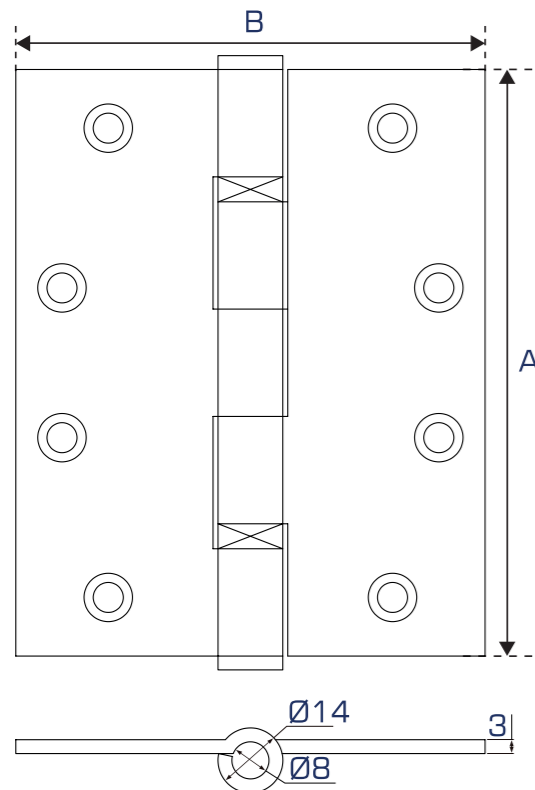
Specification

Thickness	3 mm
Axis	Single Axis
Pin	Fixed Pin
BallBearings	2
Knuckles	5
Material	Stainless Steel 304
Packaging	40 Pairs per Carton

CE Classification 476114013



Technical Design



Finishes

- AB - Antique Brass
- AC - Antique Copper
- BP - Matted Black
- GM - Gun Metal
- PB - Polished Brass
- PN - Polished Nickel
- PS - Polished Stainless Steel
- RG - Rose Gold
- SB - Satin Brass
- SN - Satin Nickel
- SS - Satin Stainless Steel

Variants

Catalog#	Length (in)	Width (in)	Length (mm)	Width (mm)
HFT40303	4	3	101.6	76.2
HFT40353	4	3.5	101.6	88.9
HFT40403	4	4	101.6	101.6
HFT45403	4.5	4	114.3	101.6
HFT50303	5	3	127	76.2
HFT50353	5	3.5	127	88.9
HFT50403	5	4	127	101.6

Certification

- 10 year warranty: The performance of this product is covered by Wilroy's hassle-free warranty.
- CE marked and fully tested to EN 1935:2002/AC:2003.
- CE marked and fully tested to EN 1634-1:2014 for suitability of use on fire doors.

Digit	Grade	Description
1 st	4	Designed for severe duty. This is the highest possible grade according to EN 1935:2003 standards.
2 nd	7	Passed 200,000 test cycles. This is the highest possible grade according to EN 1935:2003 standards.
3 rd	6	Designed for doors with mass up to 120 kg.
4 th	1	Suitable and approved for use on fire/smoke door assemblies. Tested according to EN 1634-1:2014 standards, and achieved fire resistance of 260 minutes on steel fire doors and 111 minutes on timber fire doors.
6 th	4	Very high corrosion resistance (240 hours NSS salt spray testing). Designed for outdoor use in demanding conditions (outdoor installations in marine or industrial areas and swimming pools). This is the highest possible grade according to EN 1935:2003 standards.
8 th	13	Passed 200,000 test cycles. Suitable for doors with mass up to 120 kg.



CONCEALED HINGES

Introduction

Since its founding, Wilroy has been one of the most trusted brands for quality concealed hinges. Concealed hinges require a special level of engineering and manufacturing perfection, and Wilroy delivers.

And now, with the new additions to our concealed hinges product line, we can cover an even larger range of applications while maintaining the same high standards you have come to expect from the Wilroy name.

Quality Product

Wilroy concealed hinges are in full compliance with ANSI/BHMA A156.9-2001 standards as well as DIN EN 15570. They meet or exceed the requirements of grade 2. Our S-line hinges are made from stainless steel 304 and have a brass damper, making them the ideal choice for both indoor and outdoor applications.

Wide Range of Applications

With our extended line of concealed hinges, we can provide you with quality hinges for any application.

Regardless of your cabinet or project design, Wilroy has you covered. Get your creativity rolling knowing your design can be implemented elegantly and reliably.

Ease of Installation

Wilroy hinges can be installed without hiring someone or requiring expensive power tools. They are also intuitively adjustable with a simple screwdriver.

Peace of Mind

Wilroy concealed hinges come with Wilroy's unmatched warranty of 5 years on steel hinges and 10 years on stainless steel 304 hinges.

Hinges matter. They receive a remarkable amount of use (and abuse) and can be taken even further for granted when they're technically invisible. Poorly manufactured or undependable hinges can malfunction, come loose or break and cause damage to the door, adjoining cabinets, countertop, floor or other areas. Do it right the first time. Use Wilroy.

Wilroy hinges are used throughout the United States and around the world in every conceivable type of cabinet application in homes, offices, hospitals, hotels and countless other businesses. They are subject to varying levels of use, and sometimes abuse. They are installed in humid environments and are subjected to cold and hot weather, such as in garage and workshop environments, and are often exposed to people in public and professional settings with little incentive to exercise care.

Naturally, we want to be sure that the products you receive from Wilroy perform to the highest levels of dependability and reliability. So, we test them under the strictest quality requirements for hinges at our state-of-the-art testing laboratories. Then, we test them again at the leading, third-party, international quality certification firms SGS and TÜV Rheinland.

Wilroy hinges are in full compliance with ANSI/BHMA A156.9-2001 standards as well as DIN EN 15570. They meet or exceed the requirements of grade 2.

NOTE: All Wilroy concealed hinges are designed for indoor use and our stainless steel 304 concealed hinges are designed for indoor and outdoor use.

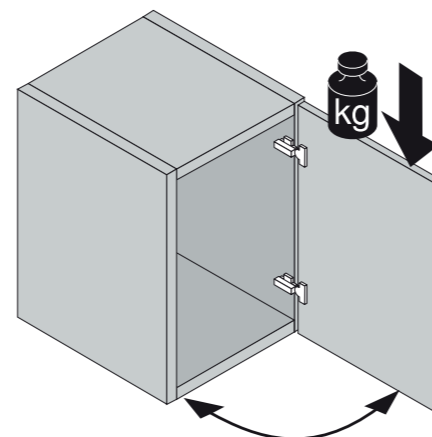
Testing Conditions

Specifications	- Test door dimensions: (H) 27.5" (700 mm) x (W) 23.6" (600 mm) x (T) 0.74" (19 mm)
	- Door Weight: 12 pounds (5.5 kg) for test cycles
	- Additional Weight: 4.4 pounds (2 kg) for overload tests
	- Boring Distance: 5 mm
Distance Between Hinges	- 22.8" (580 mm)
Hinge and Mounting Plate Accessories	- Hinges are mounted to test blocks and attached to test door and stand with clamps
	- Test door material: Particle board
	- Test cabinet material: Particle board

Overload Testing:

- Vertical Static Overload:

Load the door with a weight of 44 pounds (20 kg). The weight shall be suspended 3.93" (100 mm) from the edge furthest from the hinge. Open and close the door 10 full cycles (back and forth) from a position 45° from fully closed to a position 10° from fully opened, up to a maximum of 135° from the fully closed position.

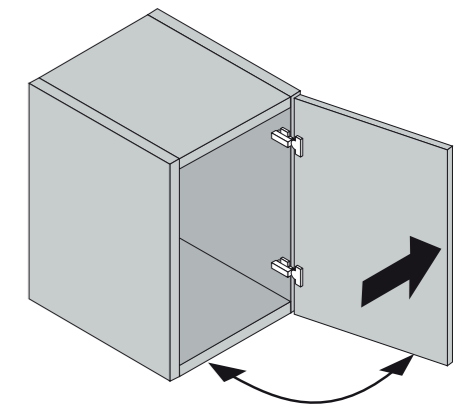


- Horizontal Static Overload:

Apply the horizontal static load of 60 N perpendicular to the plane of the door on its horizontal centerline 3.93" (100 mm) from the edge of furthest from the hinge, open and close the door 10 times.

Durability Testing:

Attach two weights, 2.2 pounds (1 kg) each, on both sides of the door at the middle vertical centerline. Using approximately 10 cycles per minute, fully open the door to a maximum of 130° and fully close it for up to 100,000 full cycles on most hinge models.



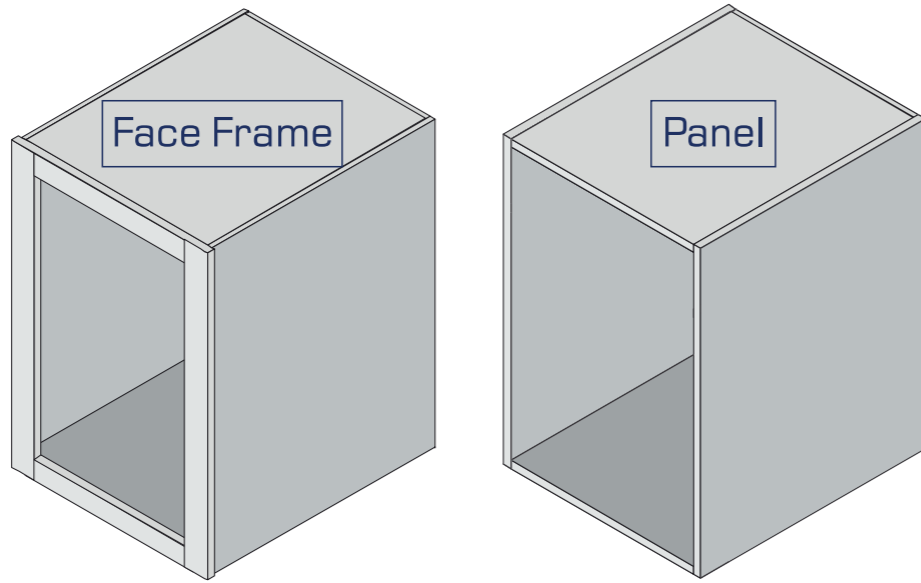
Corrosion Resistance Testing:

- 48 hours Natural Salt Spray (NSS) Test for cold rolled steel models.
- 48 hours Acetic Acid Salt Spray (AASS) test for Stainless Steel 304 models.



Easy As Pie...

Wilroy cabinet hinges are very easy to install both on panel cabinets and face frame cabinets. Our hinges are fully adjustable in any direction and give you full control over the cabinet overlay and reveal. Wilroy clip-on hinges let you remove the door with literally one click.



Overlay Types

Full Overlay



Half Overlay



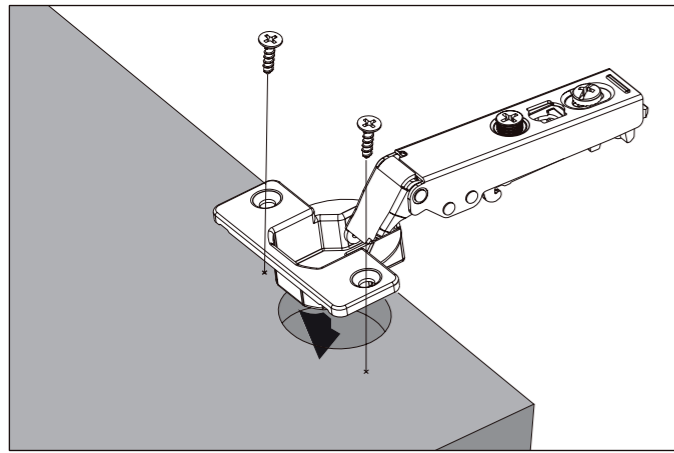
Inset



Hinge-to-Door Installation Options

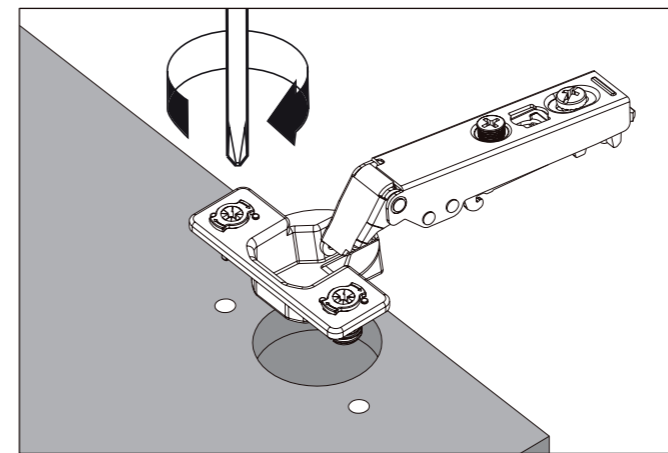
- Screw-on

Use wood screws or Euro screws.



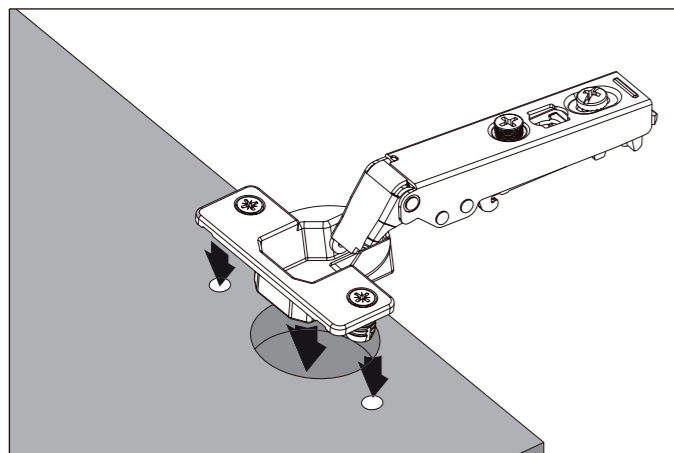
- LIGO

Hinges come fitted with Ø8 mm or Ø10 mm dowels. Just rotate the screws 90° and you're done. Fewer tools, fewer employees. Outstanding solid, secure results.



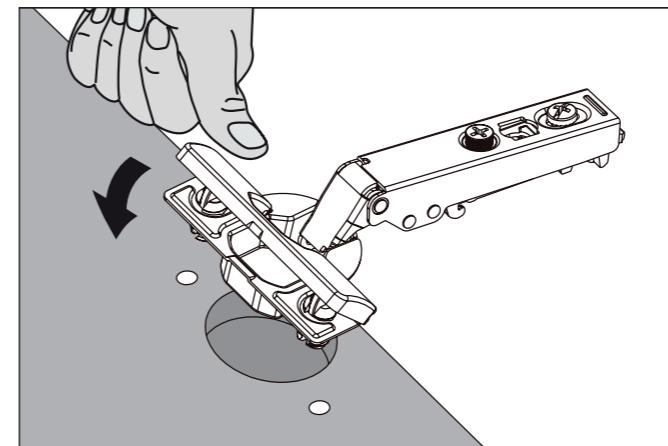
- Press-in

Hinges come fitted with Ø8 mm or Ø10 mm dowels that are tapped into place securely, in a jiffy. Ideal for saving time and money on larger projects: no power tools, no large workforce.



- VELOX

100% tool-free installation. Simply snap the cup cover shut and the hinge is securely attached. Ideal for saving time and money on larger projects: no power tools, minimal workforce.



Clip-on Hinge Installation

Solid Union

The hinge hooks into the mounting plate in 5 different places ensuring that the door won't come off, even under heavy usage.



Installation

Insert the hooks on the base of the hinge into the mounting plate (figure 1), then gently press the tip of the hinge into place with your fingers (figure 2). You will hear a click. Done!

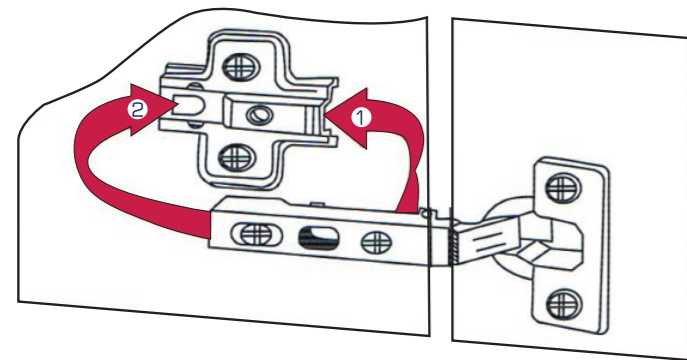


Figure 1

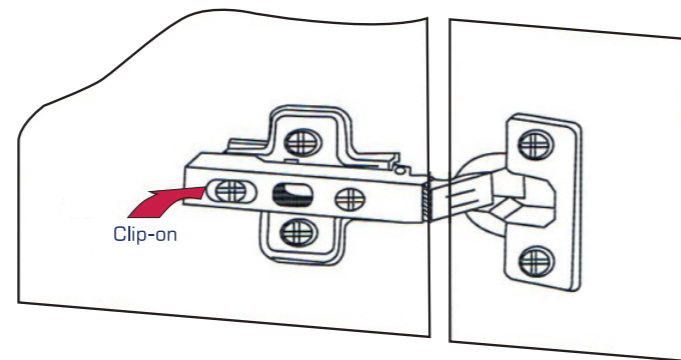


Figure 2

Removal

To remove the door, gently press the spring pin at the tip of the hinge and pull back on the door (figure 3).

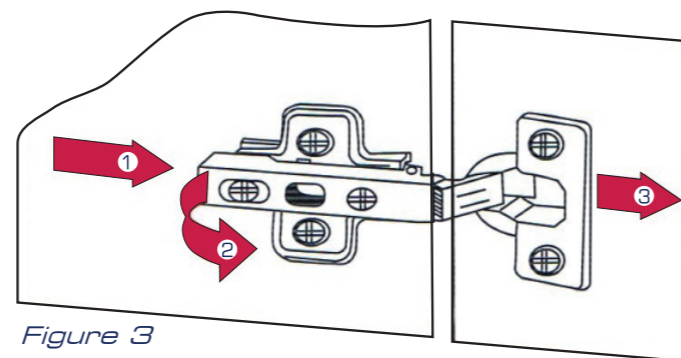
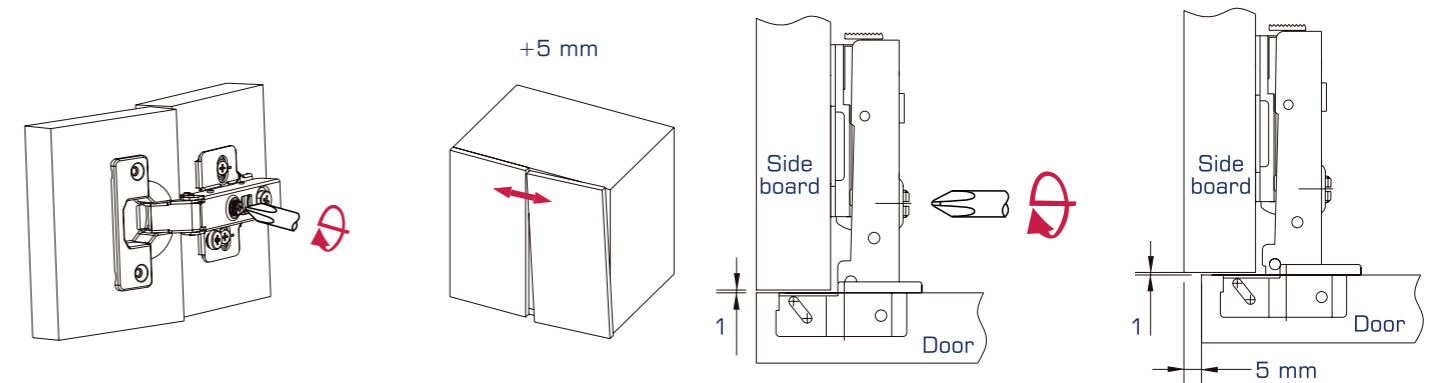


Figure 3

Remember: when installing a door, it is advisable to start with the hinge at the top of the door and work your way down. This reduces the risk of the door falling and injuring someone since the uppermost hinge bears the weight of the door. When removing the door, you should start from the bottom and work your way up for the same reason.

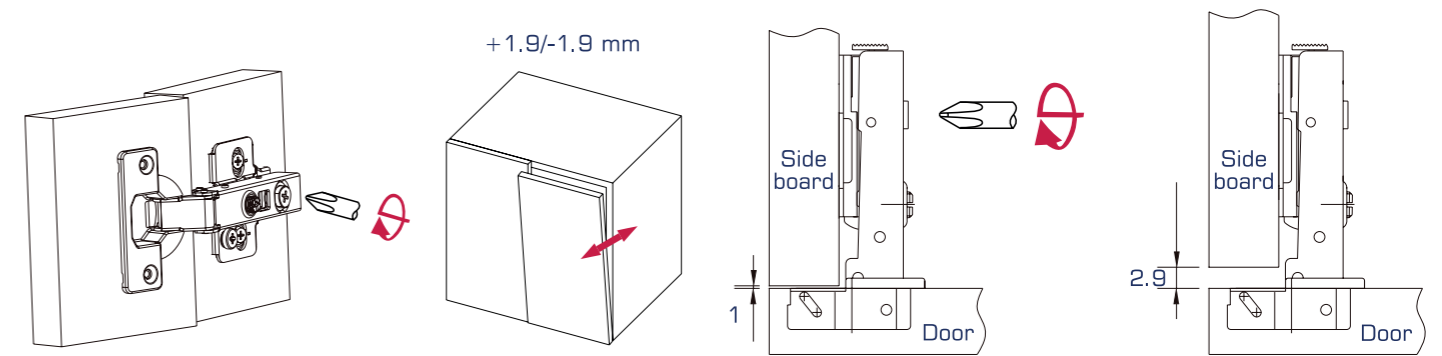
Side Adjustment

Rotating the flush screw head on the hinge arm allows you to adjust the door overlay.



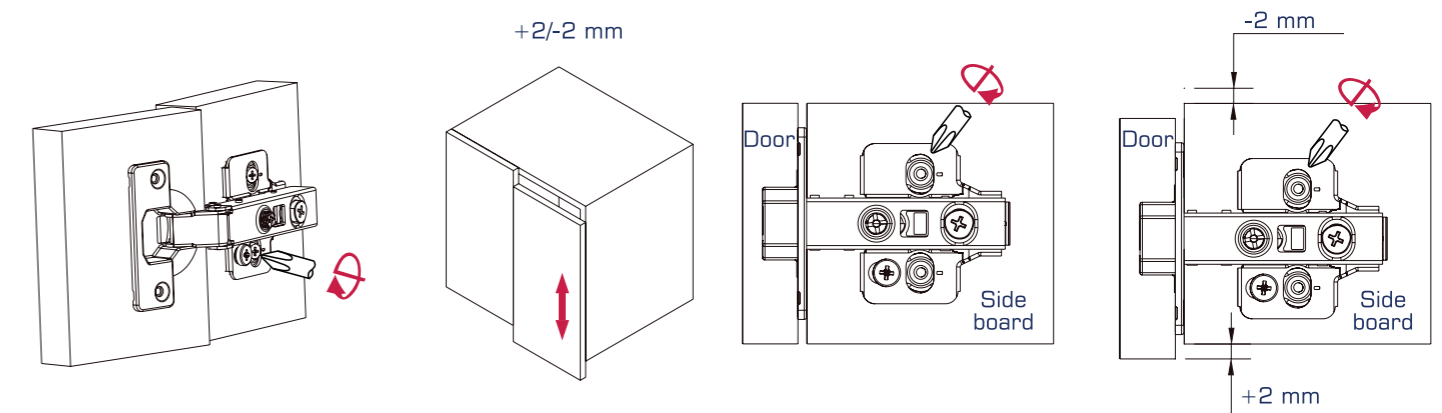
Depth Adjustment

To control the depth of the door, use the depth screw or depth cam depending on the model.

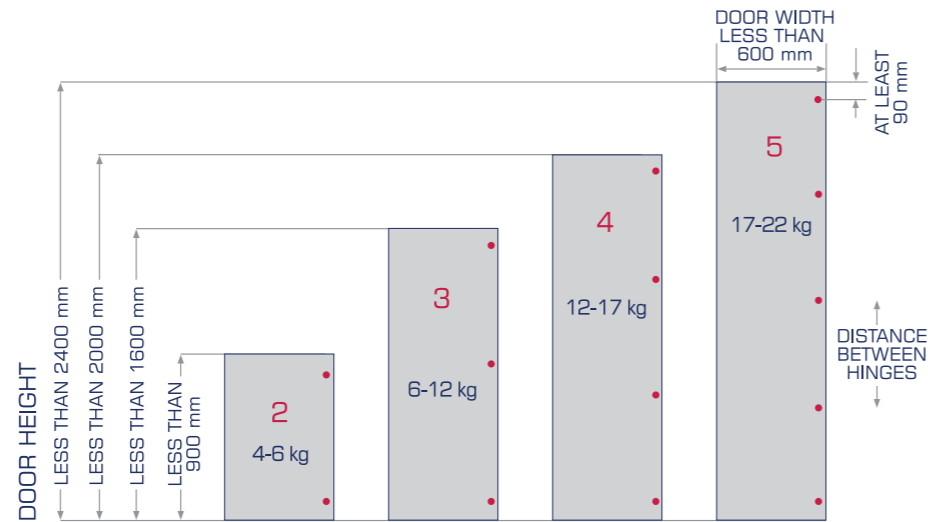


Height Adjustment

Wilroy offers a wide range of plates with elongated holes or a cam mechanism which allows three-dimensional adjustments without the need to touch any fixing screw.



Number of Hinges per Door



The number of hinges used depends on the width, height and weight of the door. Refer to the chart to the right for adequate installation.

Stainless Steel 304

Because of its high resistance to corrosion and rust, stainless steel 304 is the metal of choice in the manufacture of sinks, cutlery, faucets and anywhere metal consistently meets water. We recommend the use of S-line products (ST, SK, SM Series) in cabinets in high humidity environments such as beach houses, bathrooms and kitchens as well as outdoors.

Wilroy S-line hinges made from Stainless Steel 304 are specially designed for use in such damp environments. Our SM models feature a shallow cup for installation on thin doors typically found in bathrooms.

Wilroy S-line products come with a 10-year warranty that, unique in our industry, covers functionality and corrosion. Our warranty not only guarantees that cabinets with our products will operate perfectly, but because corrosion is unacceptable, your hinges should always look brand new as well.



Quality Finishes

Wilroy steel concealed hinges come in universal copper nickel finish as standard. Our excellent quality concealed hinges come in the following readily available colors:

Antique Bronze



Red Bronze



Gun Black



Copper Nickel



The method used in these finishes is "electroplating," where a thin layer of metal is transferred to the surface of the hinge. The color is not painted on the hinge, but becomes fused as part of an electrical process that makes its adherence permanent.

If your project requires a custom color, please contact us for your special order (some minimums apply).



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	4.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

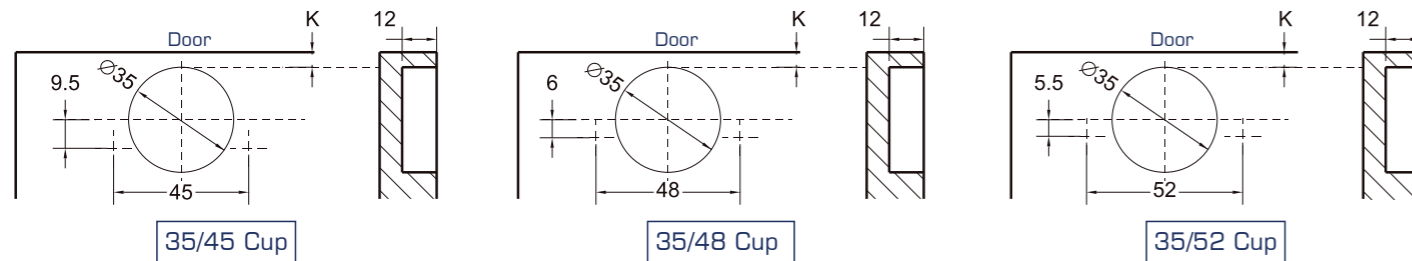
Notable Features

- Compatible with CELO plate, mounted underneath the hinge for an elegant modern look.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup

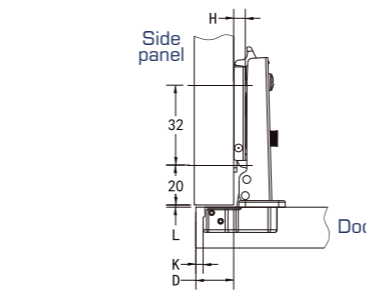


Cup Installation

Screw-on		Press-in		LIGO		VELOX	
Installation Method	Code	Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5	8 mm Dowels	Z5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6		

Overlay Table

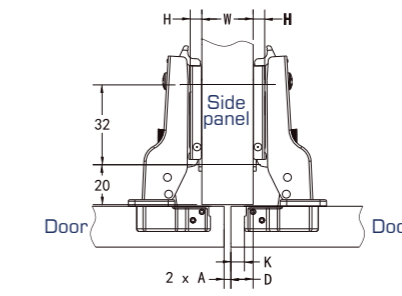
Full Overlay



$$H = 14 + K - D$$

$\begin{matrix} D & K \\ H & \end{matrix}$	3	4	5	6	7
0	17	18	19	20	21

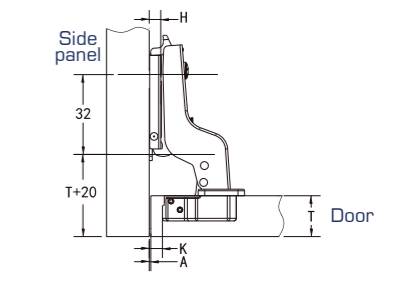
Half Overlay



$$H = 4 + K - D$$

$\begin{matrix} D & K \\ H & \end{matrix}$	3	4	5	6	7
0	7	8	9	10	11

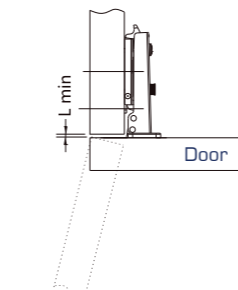
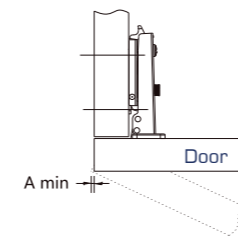
Inset



$$H = -4 + K + A$$

$\begin{matrix} A & K \\ H & \end{matrix}$	3	4	5	6	7
0	1	0	-1	-2	-3

Minimum Reveal Table



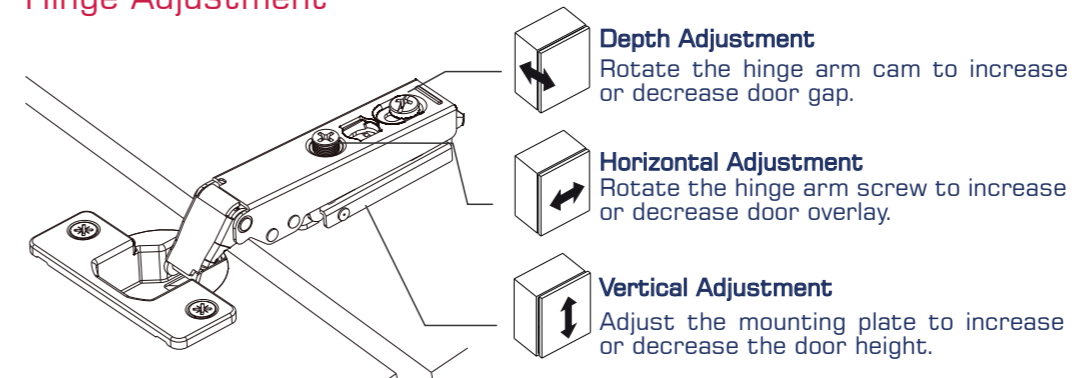
$\begin{matrix} A & K \\ T & \end{matrix}$	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

$\begin{matrix} L & K \\ T & \end{matrix}$	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: VP

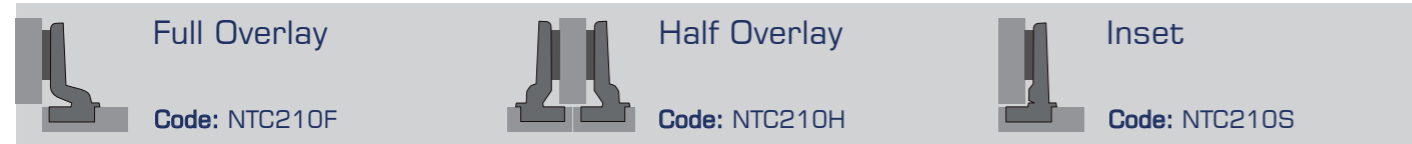


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

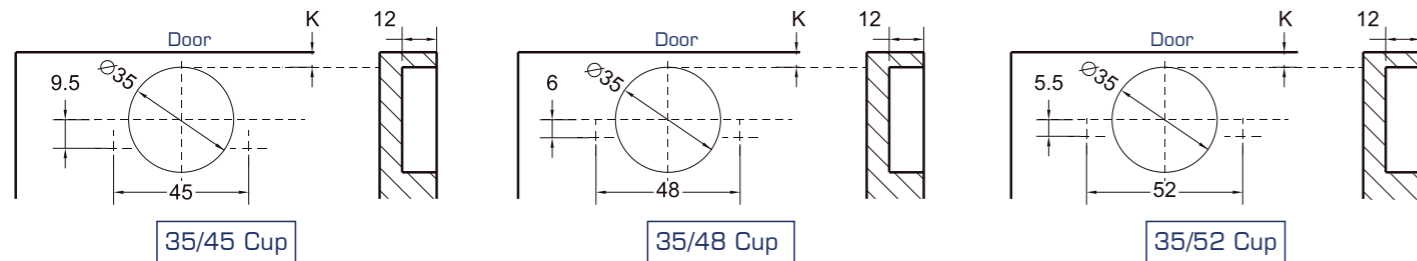
Notable Features

- Compatible with CELO plate, mounted underneath the hinge for an elegant modern look.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup

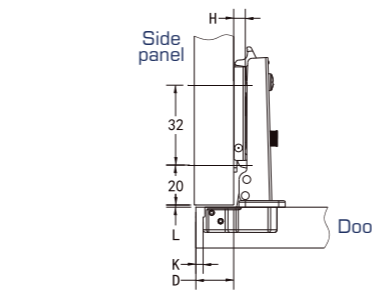


Cup Installation

Screw-on		Press-in		LIGO		VELOX	
Installation Method	Code	Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5	8 mm Dowels	Z5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6		

Overlay Table

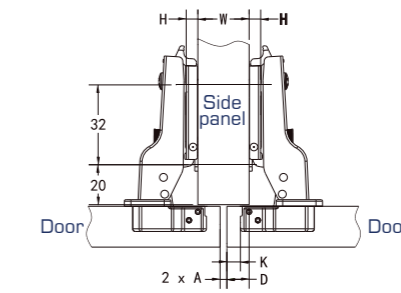
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21

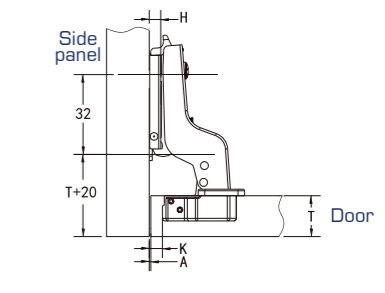
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11

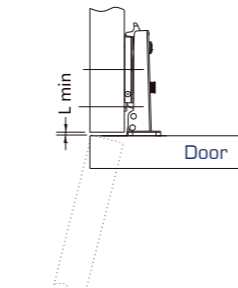
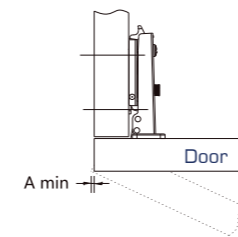
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3

Minimum Reveal Table



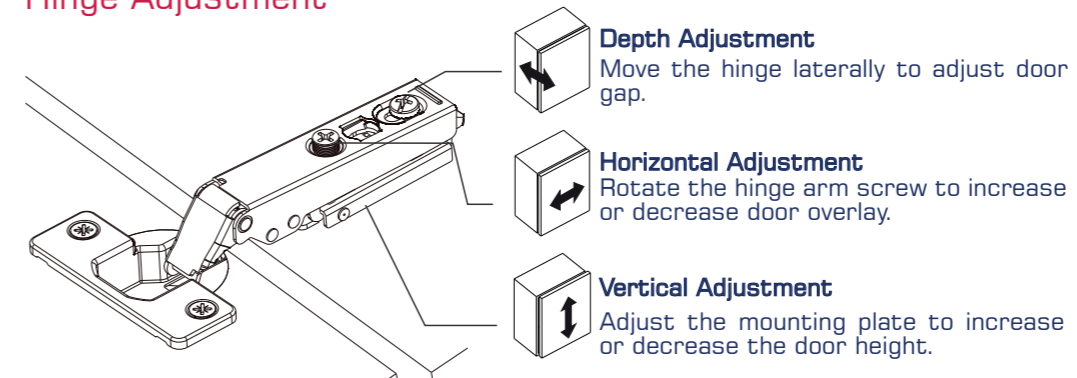
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ T	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: VP

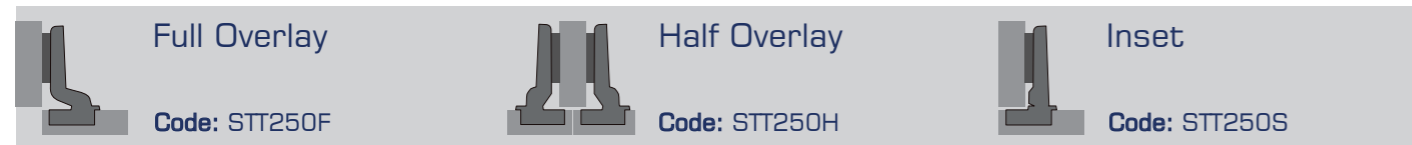


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Stainless Steel 304
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	9 mm
Finish	Stainless Steel
Packaging	200 Units per Carton

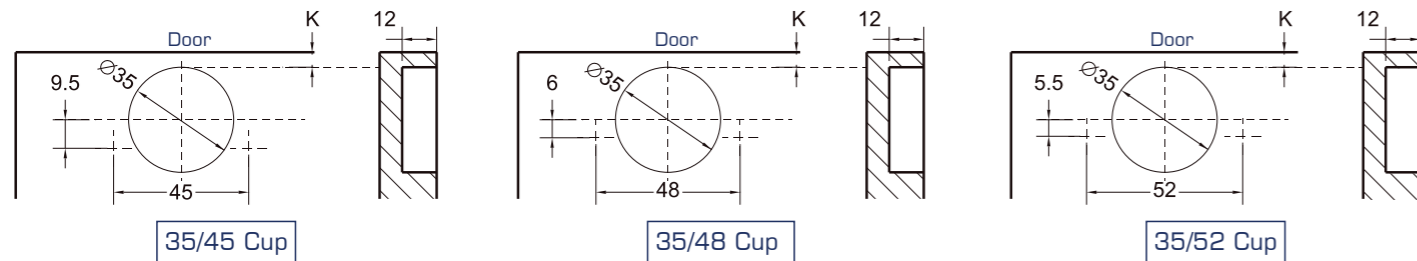
Notable Features

- Stainless steel 304 body with brass damper for very high corrosion resistance.
- Ideal for installation in kitchens, bathrooms, beach houses and buildings in humid climates.
- 10 year warranty on function and rust resistance.

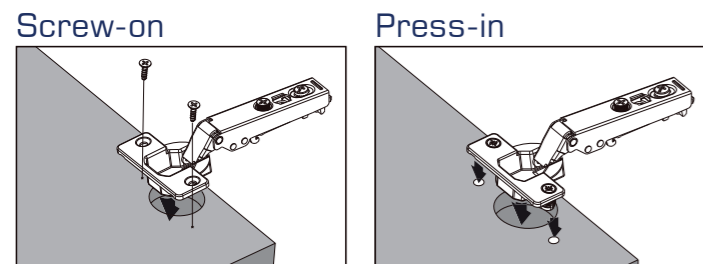


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



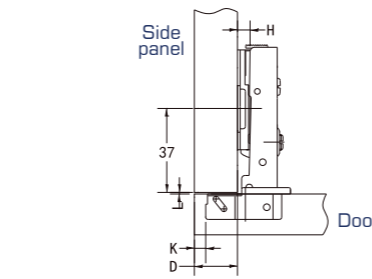
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

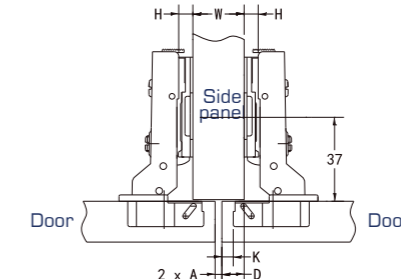
Full Overlay



$H = 14 + K - D$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19

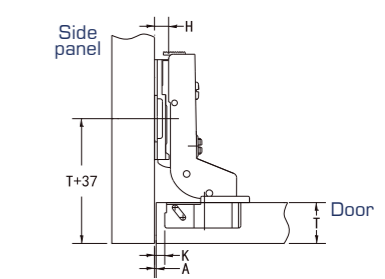
Half Overlay



$H = 4 + K - D$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9

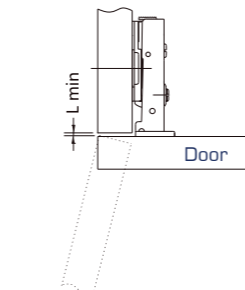
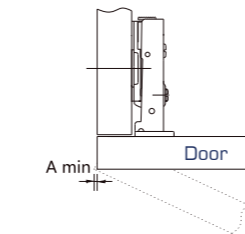
Inset



$H = -4 + K + A$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1

Minimum Reveal Table



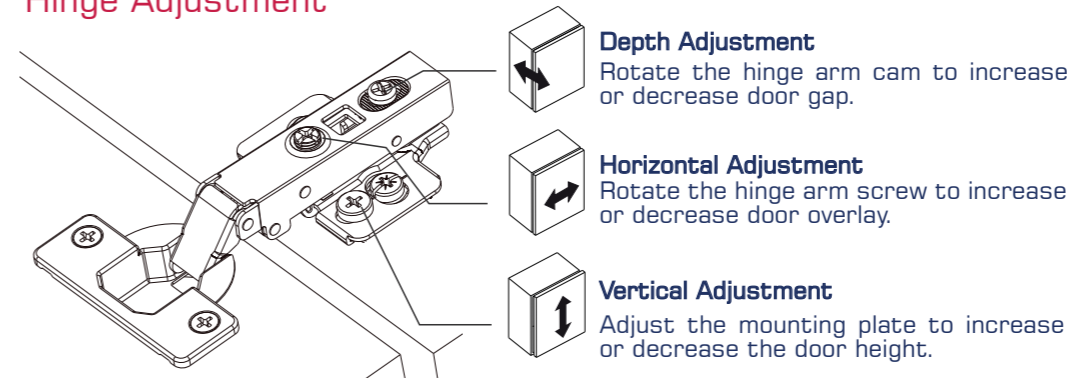
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: SD SR SE SF

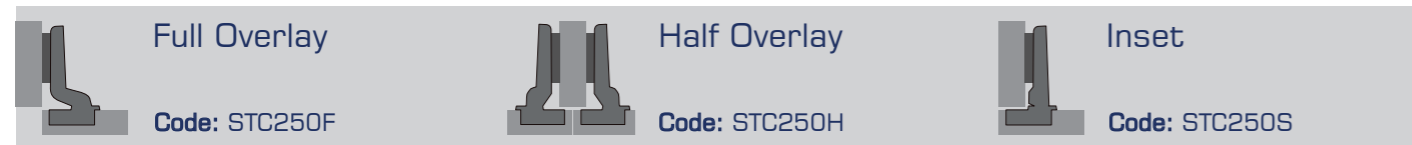


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Stainless Steel 304
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Stainless Steel
Packaging	200 Units per Carton

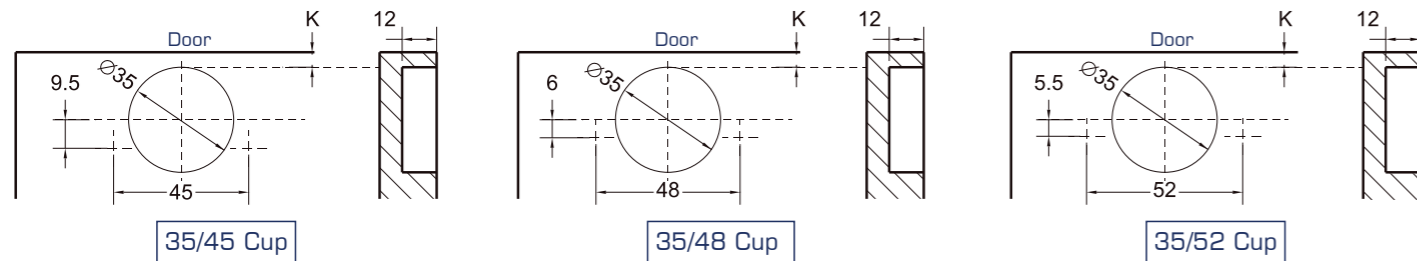
Notable Features

- Stainless steel 304 body with brass damper for very high corrosion resistance.
- Ideal for installation in kitchens, bathrooms, beach houses and buildings in humid climates.
- 10 year warranty on function and rust resistance.

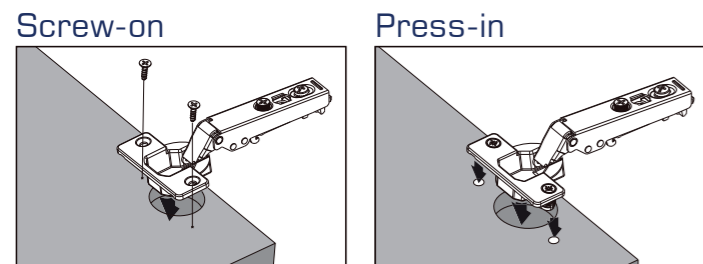


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



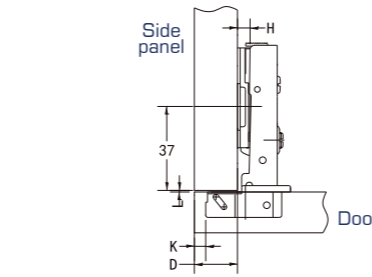
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

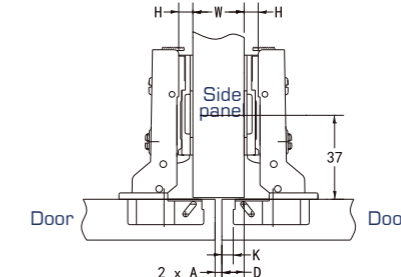
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19

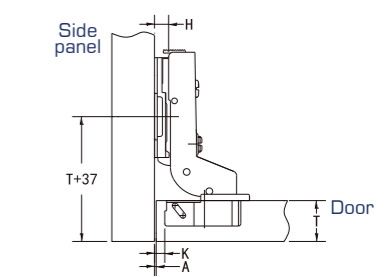
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9

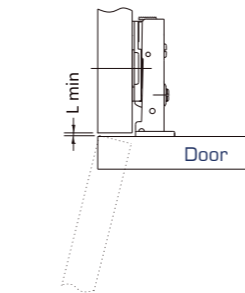
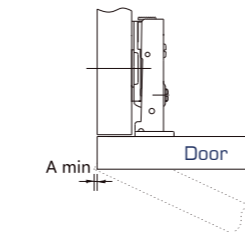
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1

Minimum Reveal Table



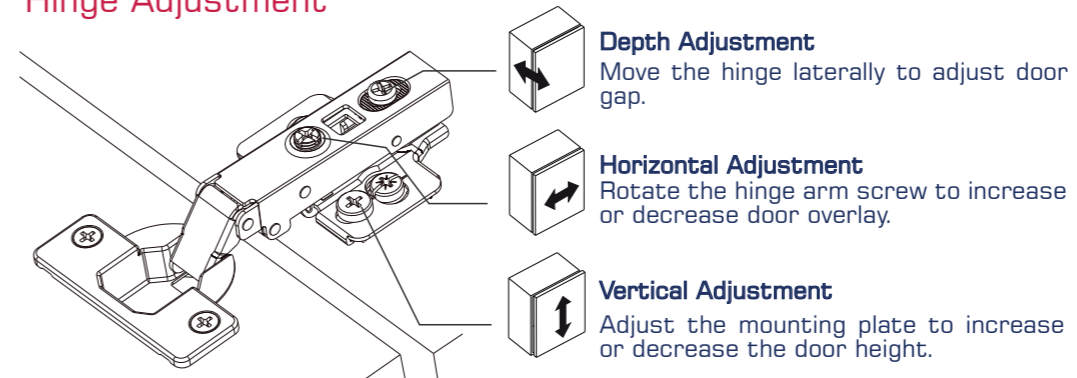
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: SD SR SE SF

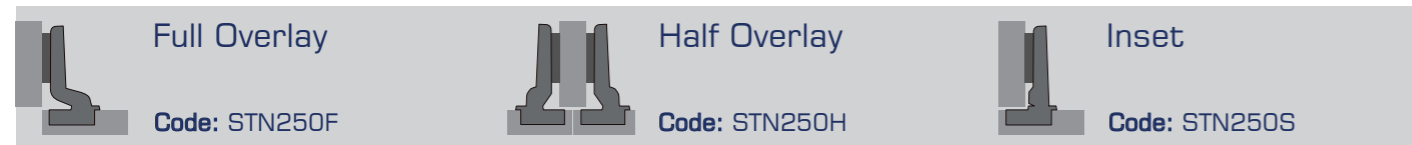


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Stainless Steel 304
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Stainless Steel
Packaging	100 Units per Carton

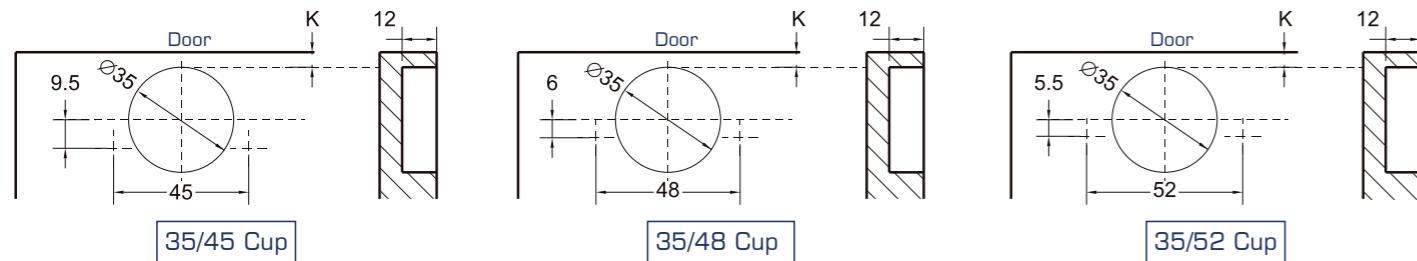
Notable Features

- Stainless steel 304 body with brass damper for very high corrosion resistance.
- Ideal for installation in kitchens, bathrooms, beach houses and buildings in humid climates.
- 10 year warranty on function and rust resistance.

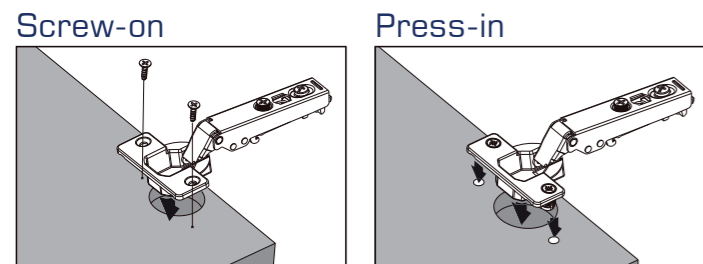


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



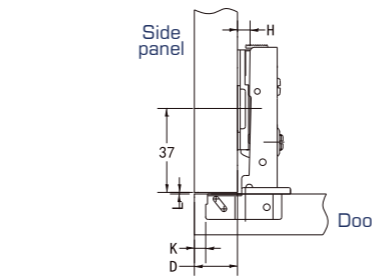
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

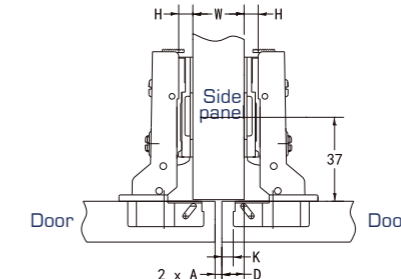
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19

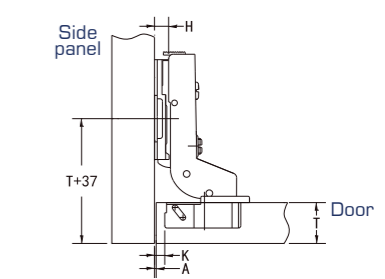
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9

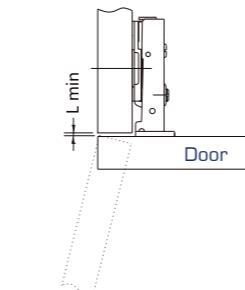
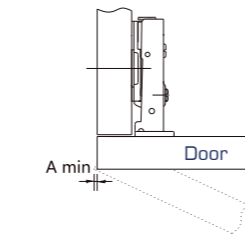
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1

Minimum Reveal Table



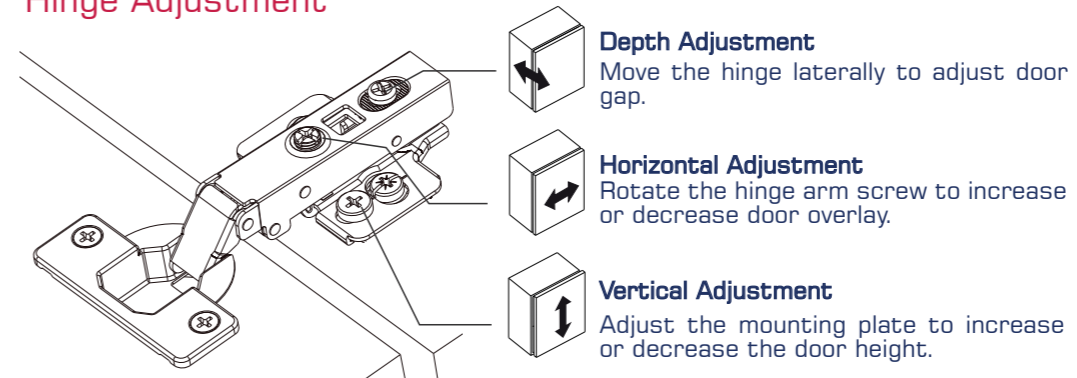
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

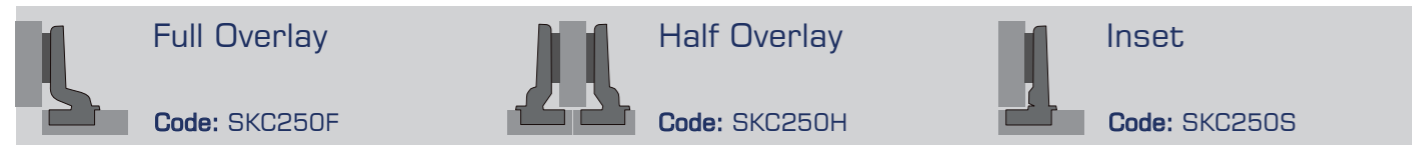


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Stainless Steel 304
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	8 mm
Depth Adjustment Range	9 mm
Finish	Stainless Steel
Packaging	200 Units per Carton

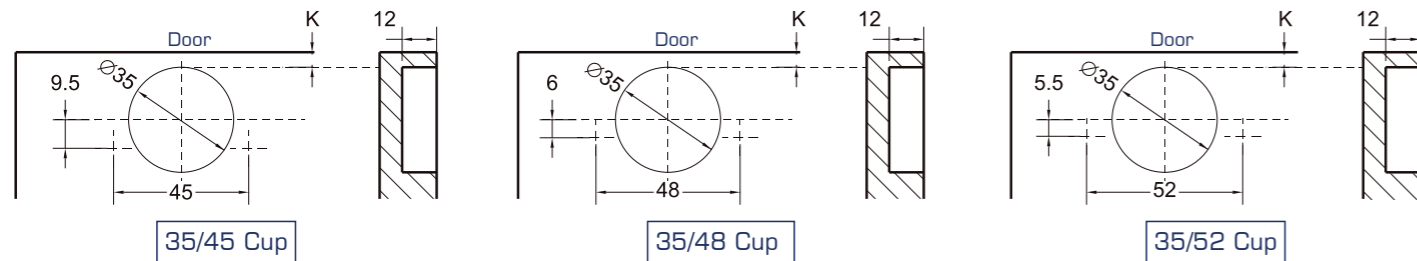
Notable Features

- Stainless steel 304 body with brass damper for very high corrosion resistance.
- Shallow cup for installation on thin doors usually used in bathroom cabinets.
- Ideal for installation in kitchens, bathrooms, beach houses and buildings in humid climates.
- 10 year warranty on function and rust resistance.

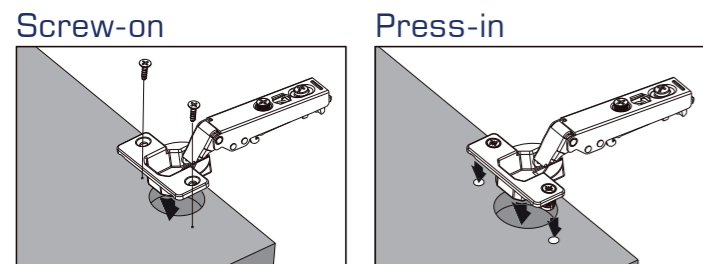


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



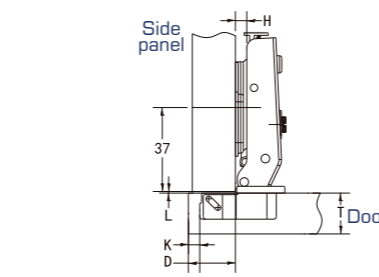
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

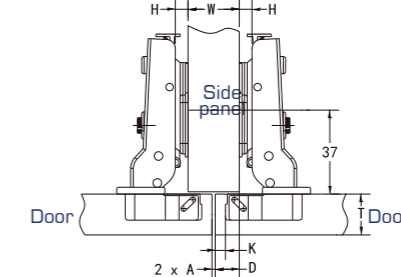
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21

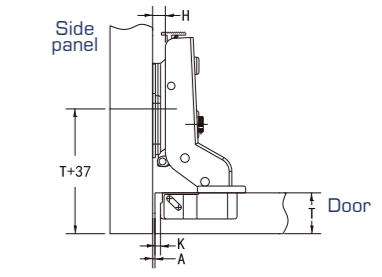
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11

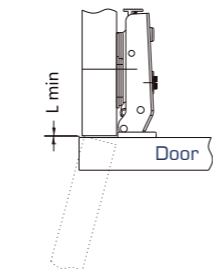
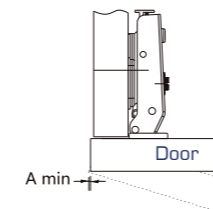
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1

Minimum Reveal Table



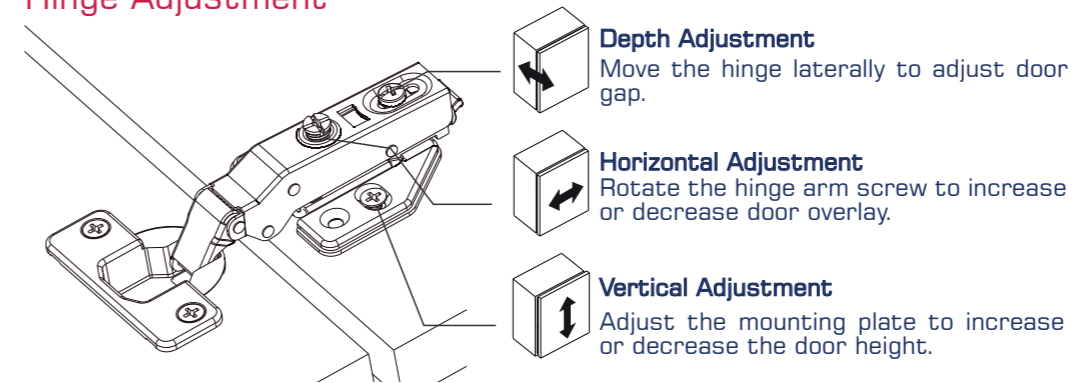
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: SD SR SE SF CT CE CF



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Stainless Steel 304
Height Adjustment Range	4 mm
Overlay Adjustment Range	8 mm
Depth Adjustment Range	9 mm
Finish	Stainless Steel
Packaging	100 Units per Carton

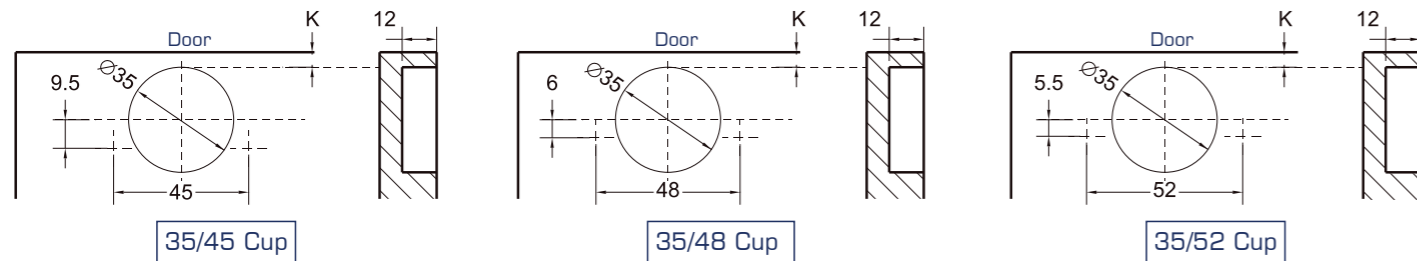
Notable Features

- Stainless steel 304 body with brass damper for very high corrosion resistance.
- Shallow cup for installation on thin doors usually used in bathroom cabinets.
- Ideal for installation in kitchens, bathrooms, beach houses and buildings in humid climates.
- 10 year warranty on function and rust resistance.

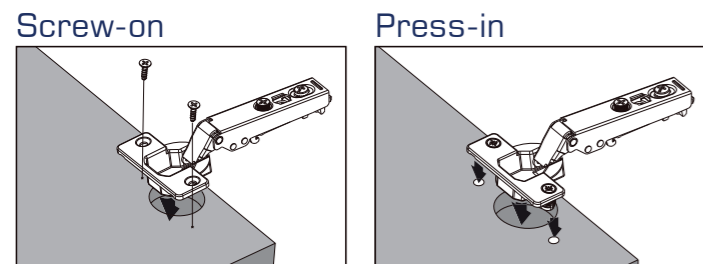


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



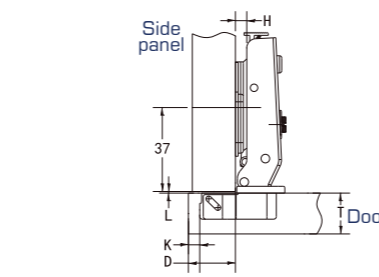
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

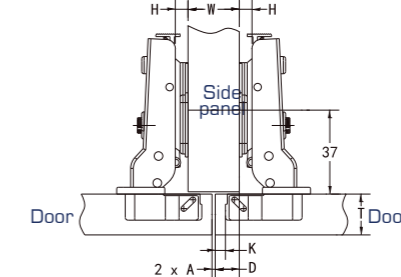
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21

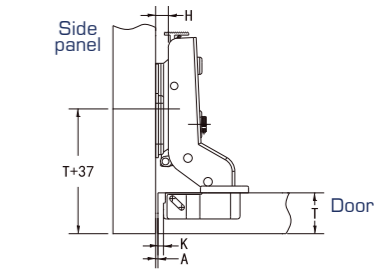
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11

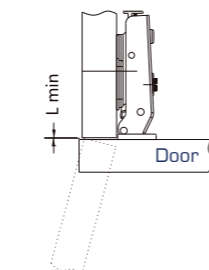
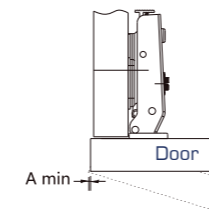
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1

Minimum Reveal Table



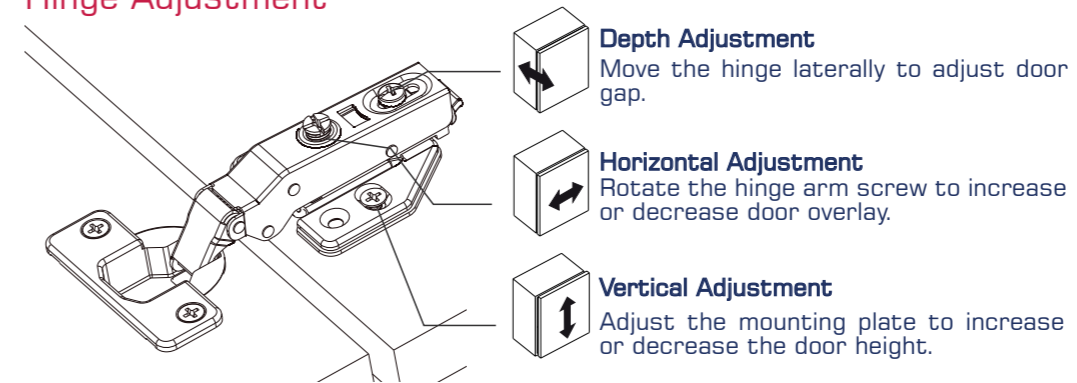
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



Specification

Opening Angle	100°
Function	Soft Close
Plate Type	Clip On
Cup Depth	10 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	12 mm - 22 mm
Material	Stainless Steel 304
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Stainless Steel
Packaging	200 Units per Carton

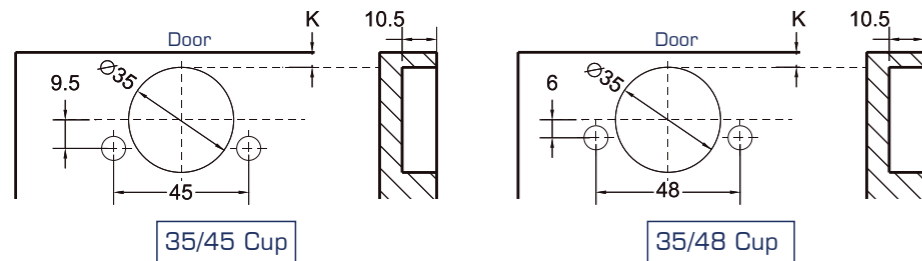
Notable Features

- Stainless steel 304 body with brass damper for very high corrosion resistance.
- Shallow cup for installation on thin doors usually used in bathroom cabinets.
- Ideal for installation in kitchens, bathrooms, beach houses and buildings in humid climates.
- 10 year warranty on function and rust resistance.

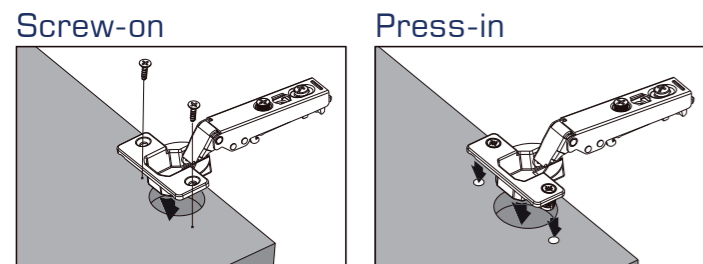


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



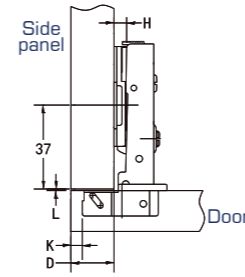
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

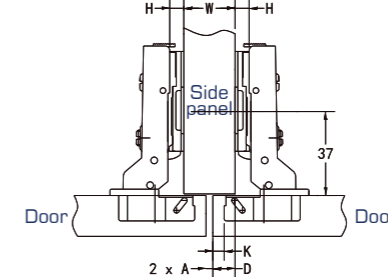
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19

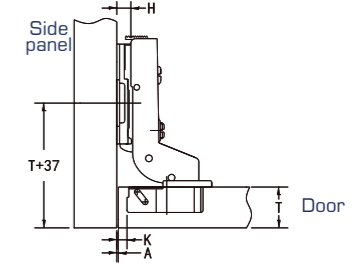
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9

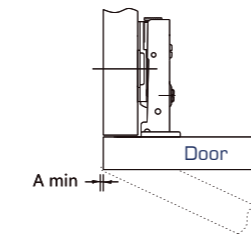
Inset



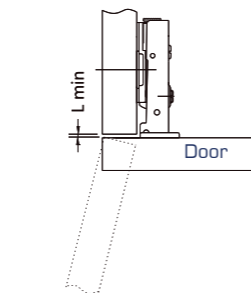
$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1

Minimum Reveal Table



A \ K	14	15	16	17	18	19	20	21	22
3	0.7	0.9	1.1	1.3	1.7	1.9	2.2	2.6	3.0
4	0.7	0.9	1.1	1.3	1.5	1.8	2.1	2.5	2.9
5	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.8
6	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.4	2.8
7	0.6	0.8	0.9	1.2	1.4	1.7	2.0	2.3	2.7

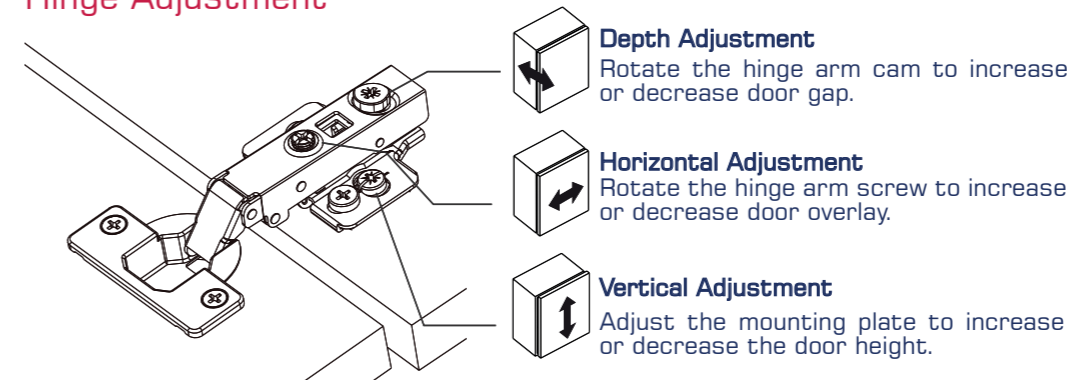


L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.2	1.3	1.6	1.8	2.0
6	1.0	1.1	1.3	1.5	2.1	2.3	2.6	2.8	3.0
7	1.8	2.1	2.3	2.5	3.1	3.3	3.6	3.8	4.0

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: SD SR SE SF

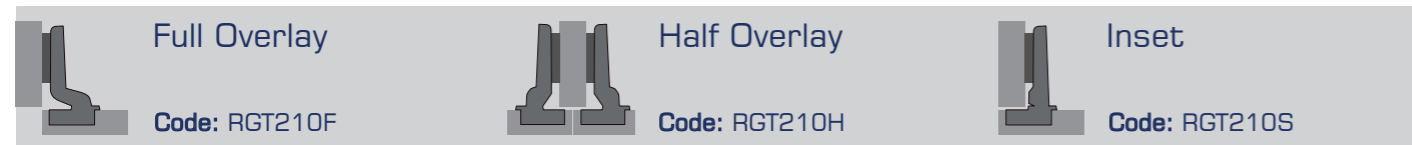


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

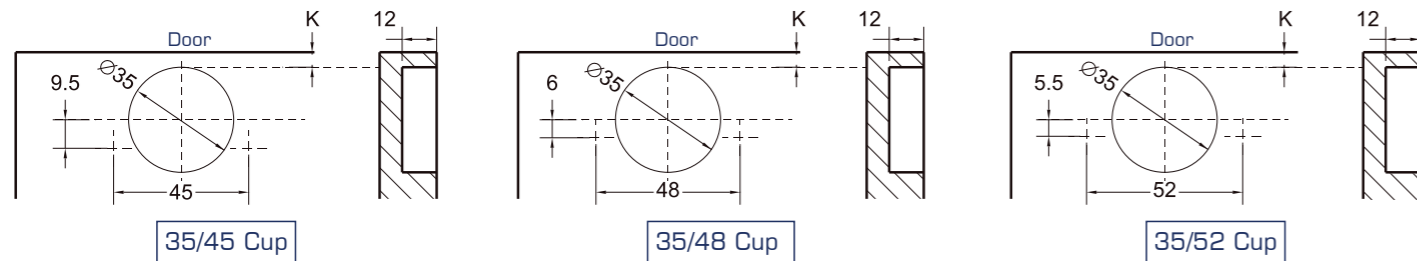
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring

Drilling For Cup

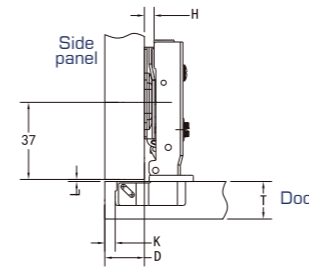


Cup Installation

Screw-on		Press-in		LIGO		VELOX	
Installation Method	Code	Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5	8 mm Dowels	Z5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6		

Overlay Table

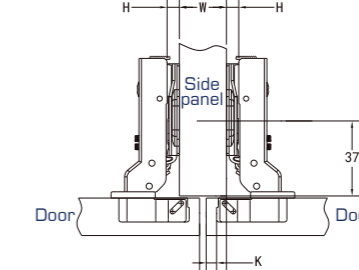
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

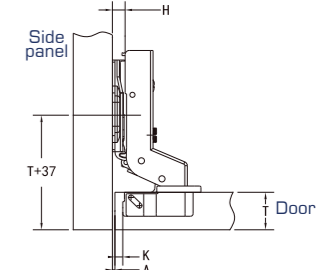
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

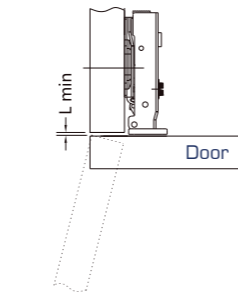
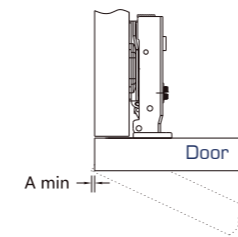
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



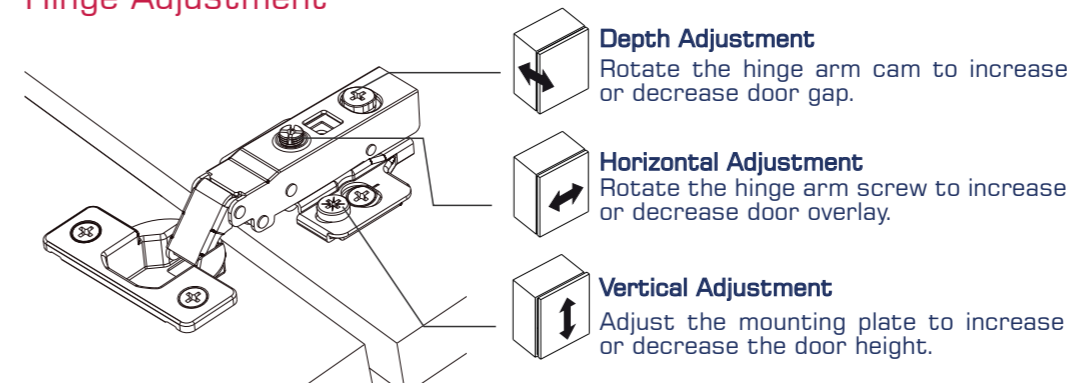
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

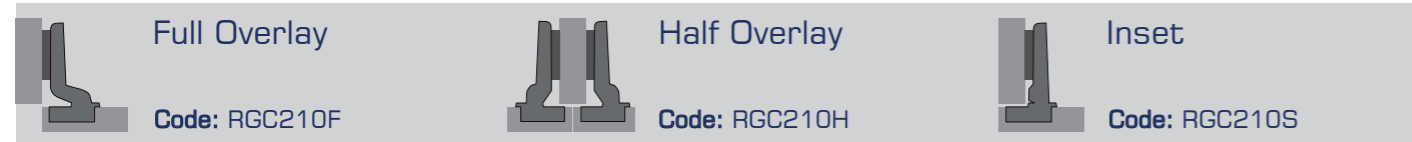


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

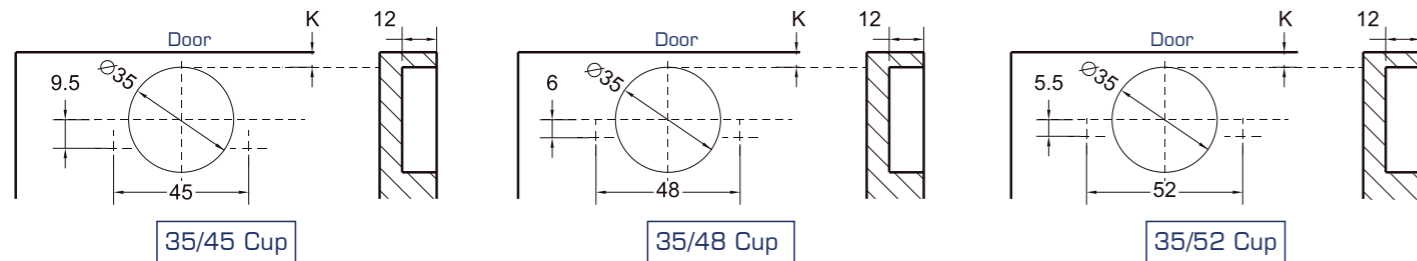
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring

Drilling For Cup

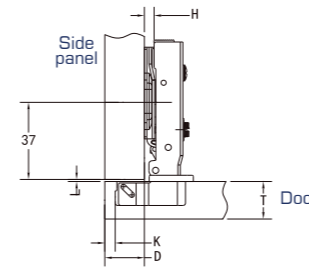


Cup Installation

Screw-on		Press-in		LIGO		VELOX	
Installation Method	Code	Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5	8 mm Dowels	Z5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6		

Overlay Table

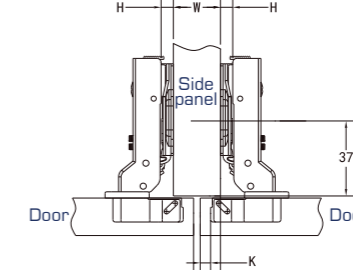
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

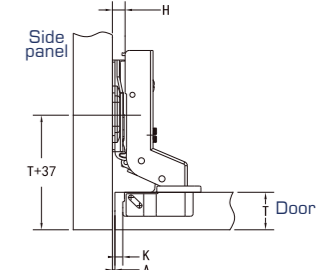
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

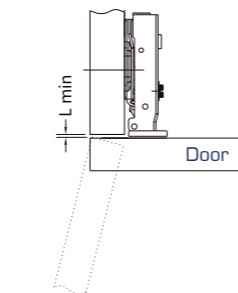
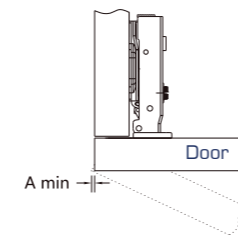
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



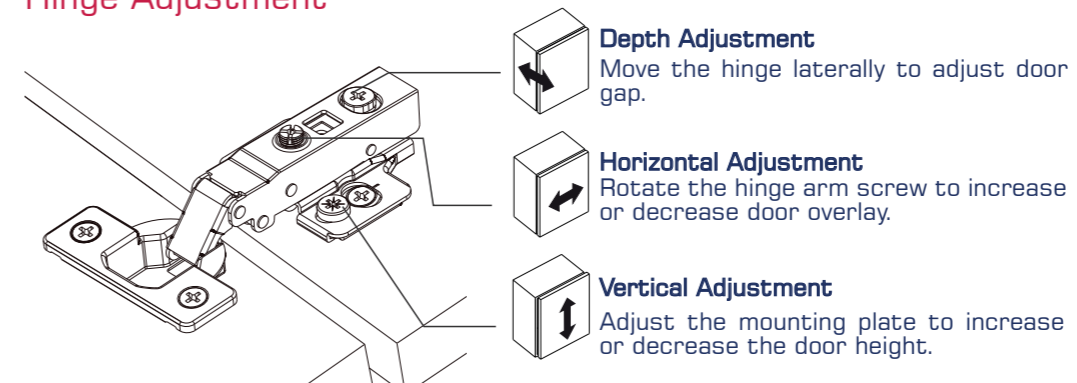
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP


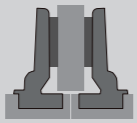



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

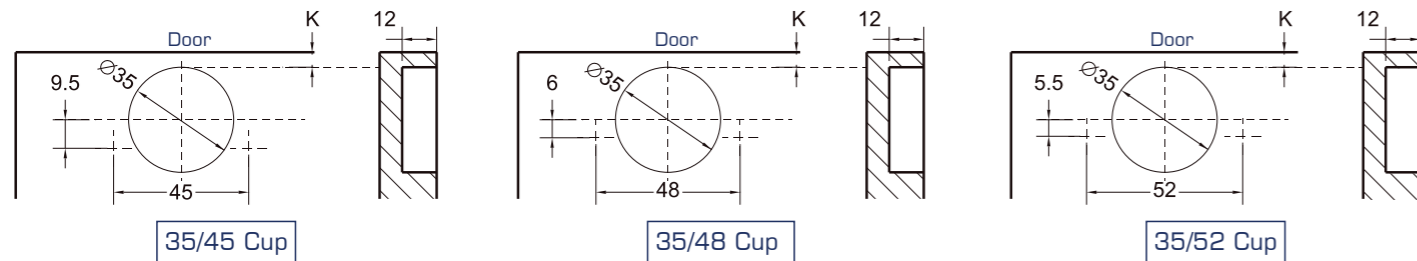
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.

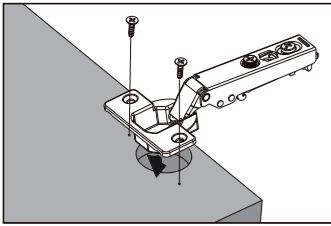
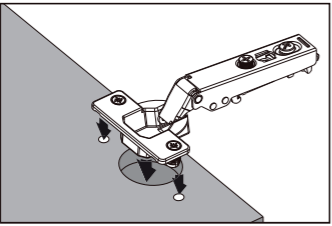
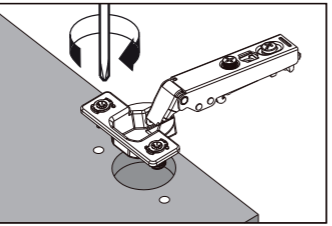
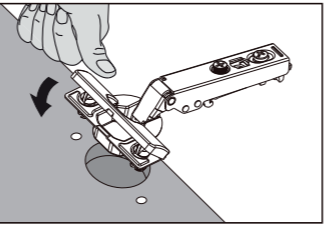
 Full Overlay Code: RGN210F	 Half Overlay Code: RGN210H	 Inset Code: RGN210S
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Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring

Drilling For Cup

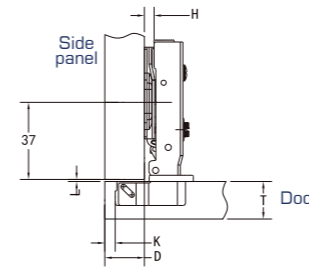


Cup Installation

			
Installation Method Wood Screws Euro Screws	Code S2 S4	Installation Method 8 mm Dowels 10 mm Dowels	Code K5 K6
Installation Method 8 mm Dowels 10 mm Dowels	Code E5 E6	Installation Method 8 mm Dowels	Code Z5

Overlay Table

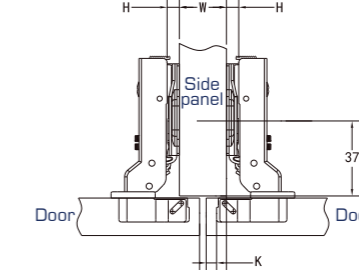
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

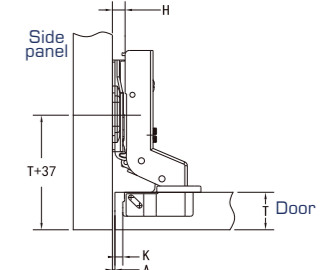
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

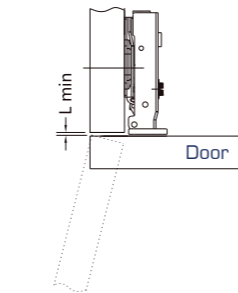
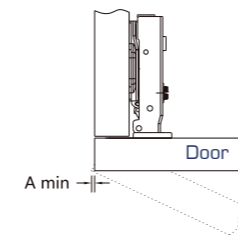
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



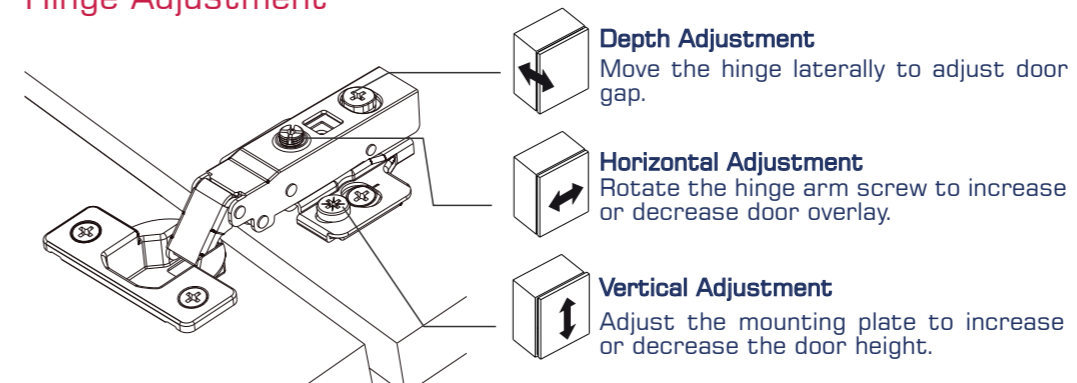
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

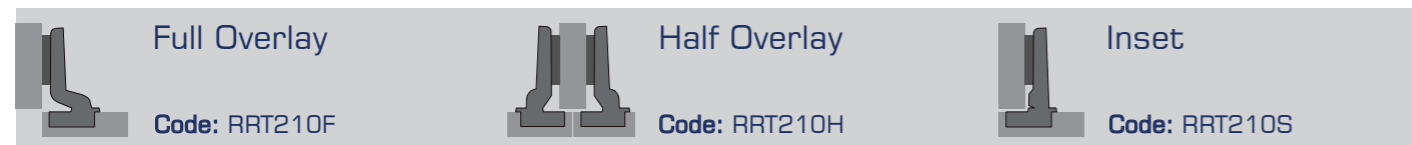


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

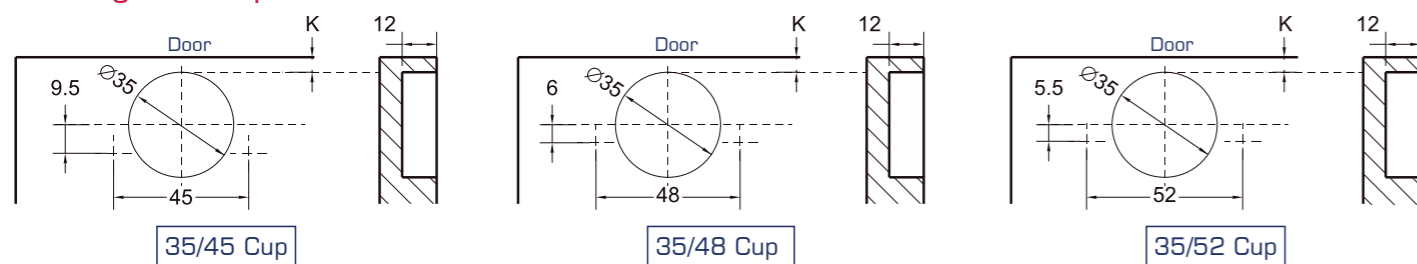
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring

Drilling For Cup

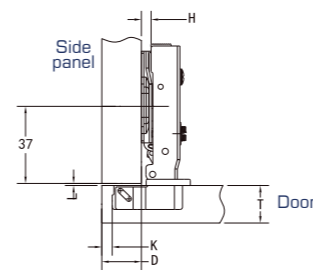


Cup Installation

Screw-on		Press-in		LIGO		VELOX	
Installation Method	Code	Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5	8 mm Dowels	Z5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6		

Overlay Table

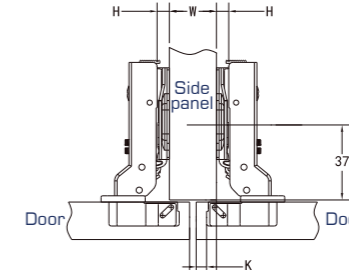
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

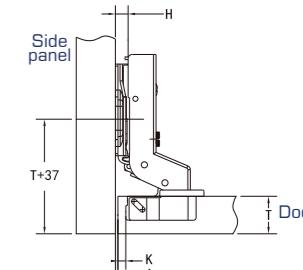
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

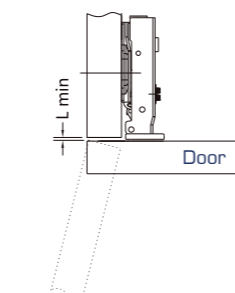
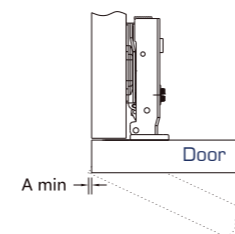
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



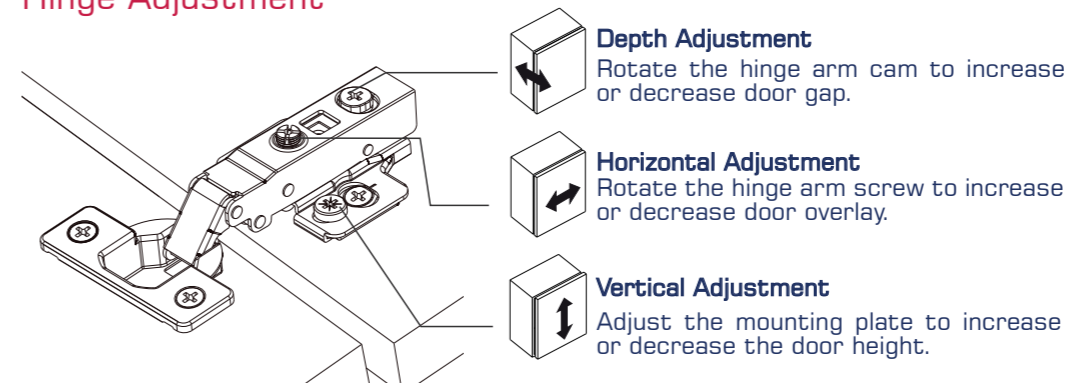
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

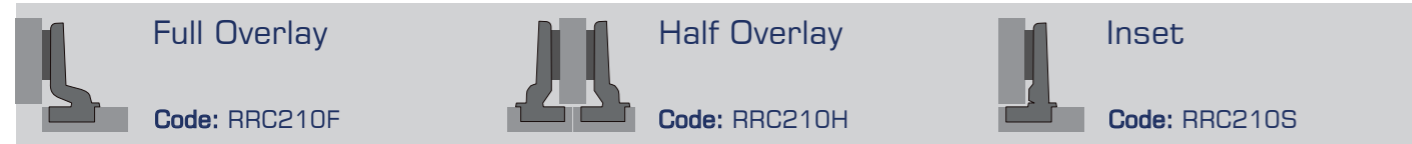


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

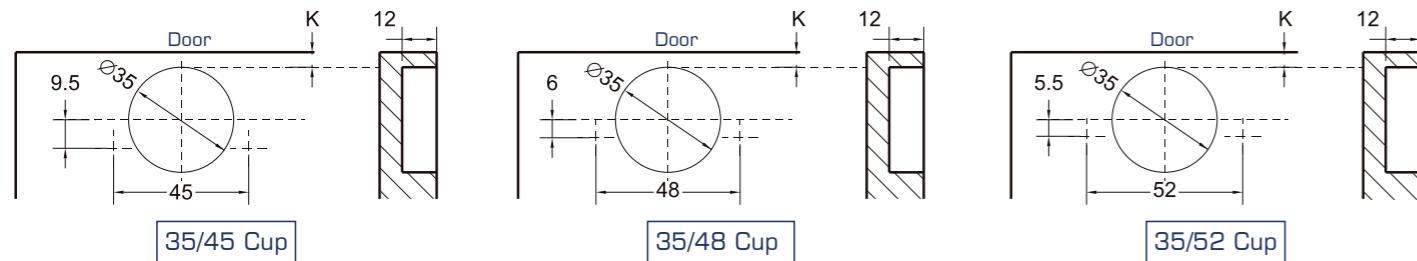
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring

Drilling For Cup

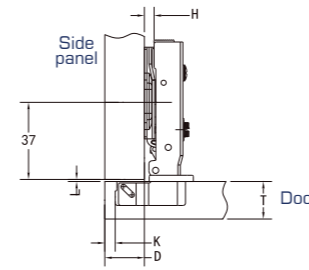


Cup Installation

Screw-on	Press-in	LIGO	VELOX
Installation Method	Installation Method	Installation Method	Installation Method
Wood Screws	8 mm Dowels	8 mm Dowels	8 mm Dowels
Euro Screws	10 mm Dowels	10 mm Dowels	8 mm Dowels
Code	Code	Code	Code
S2	K5	E5	Z5
S4	K6	E6	

Overlay Table

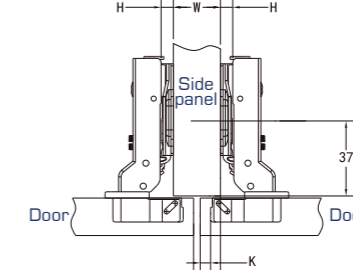
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

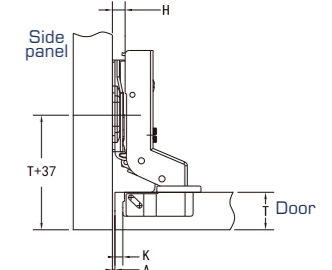
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

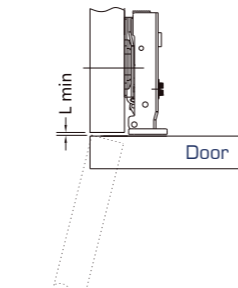
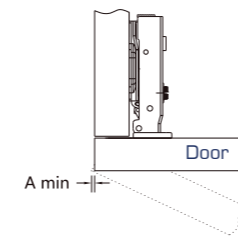
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



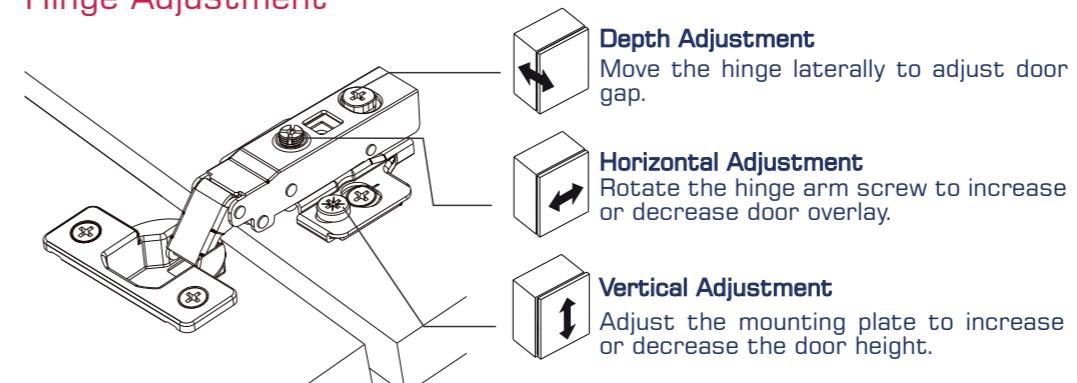
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

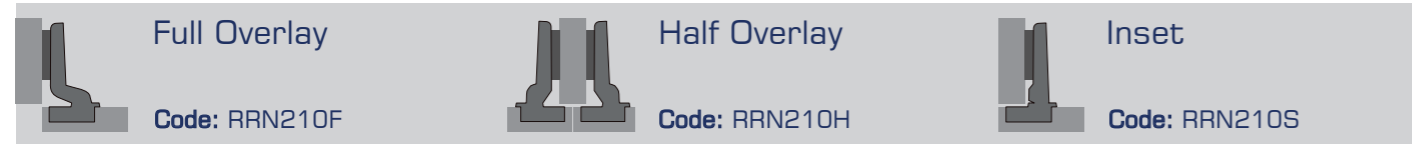


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

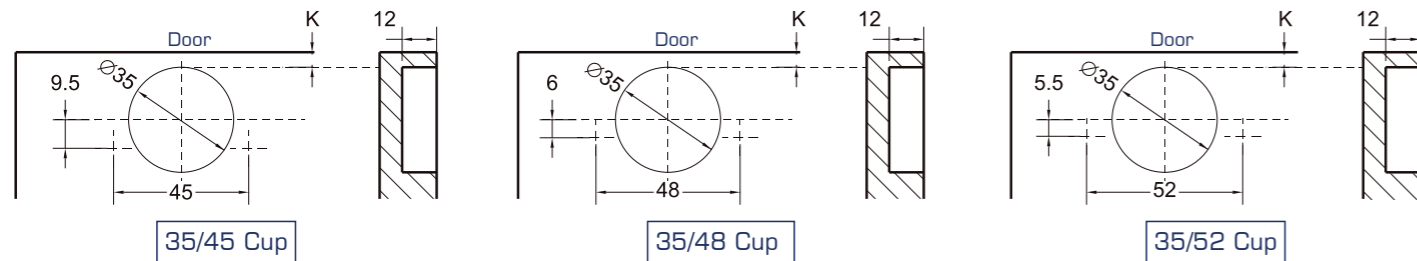
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring

Drilling For Cup

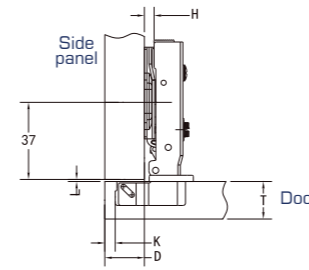


Cup Installation

Screw-on		Press-in		LIGO		VELOX	
Installation Method	Code	Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5	8 mm Dowels	Z5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6		

Overlay Table

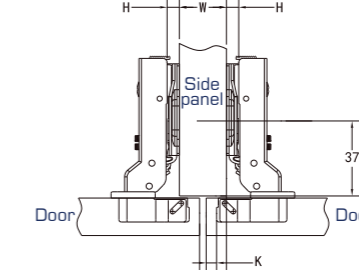
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

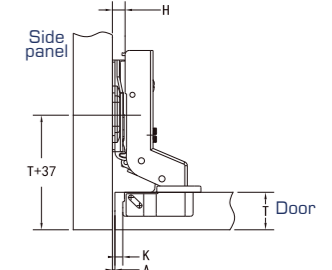
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

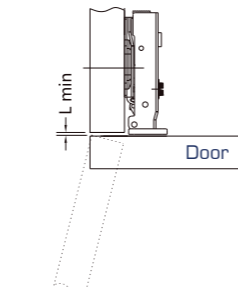
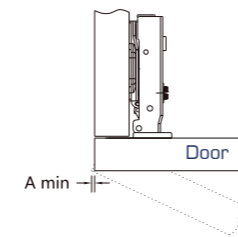
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



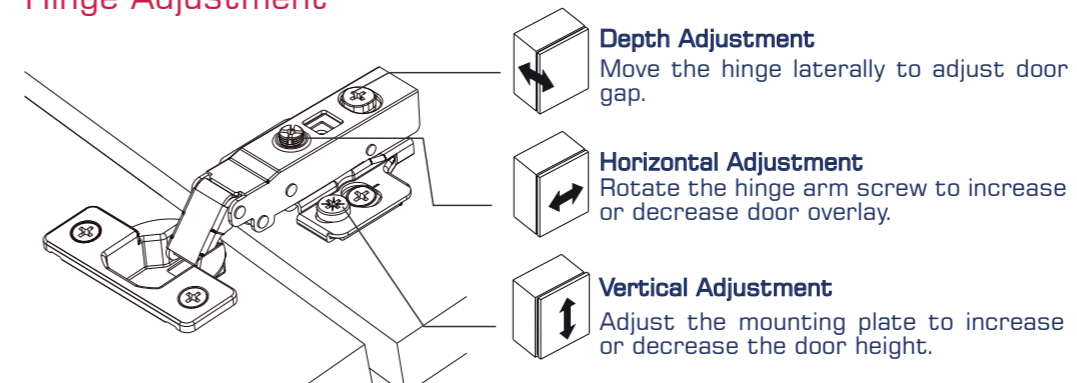
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ T	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

RL Series 105° Two-way Soft Closing Concealed Hinge

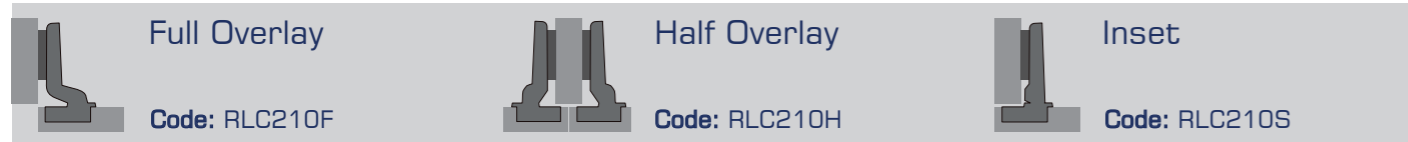


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	9 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

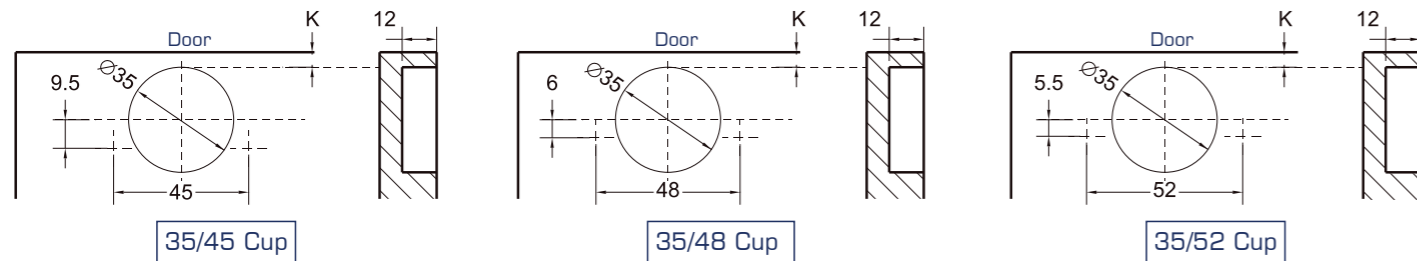
Notable Features

- Large range of adjustment.
- High tolerance for inaccuracies in cabinet manufacture.
- Two-way hinge technology extending the service life of the hinge.



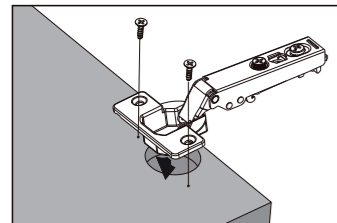
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



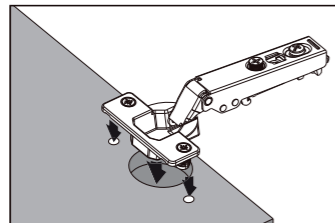
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

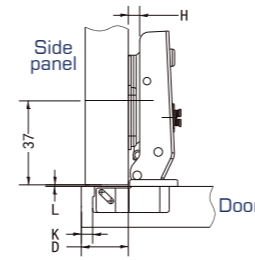
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

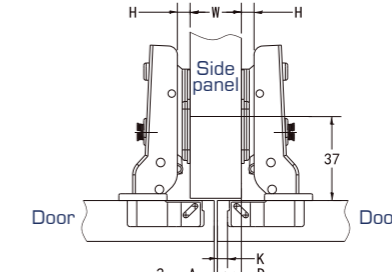
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21
4	15	16	17	18	19

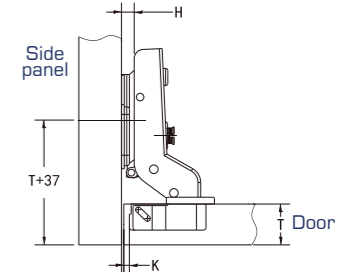
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11
4	5	6	7	8	9

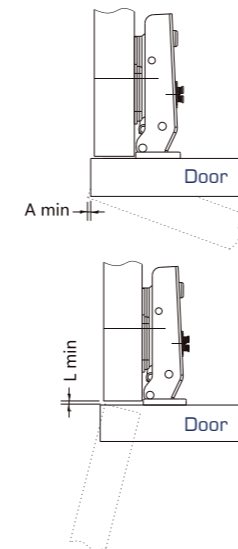
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



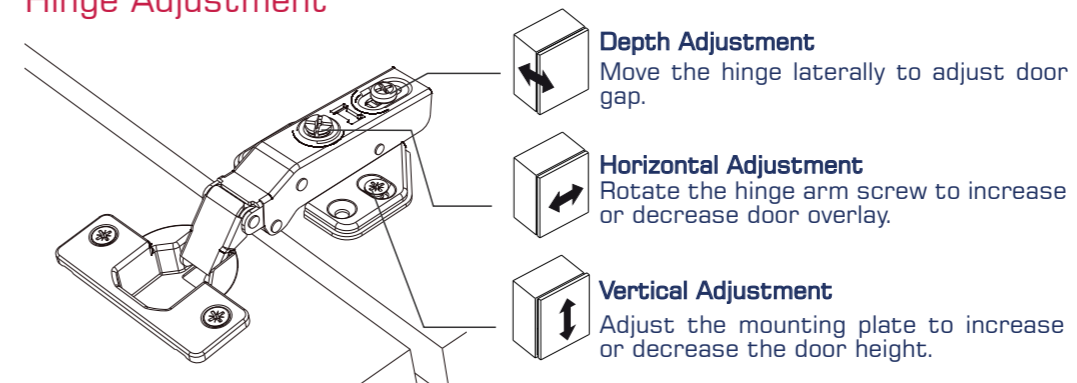
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	9 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

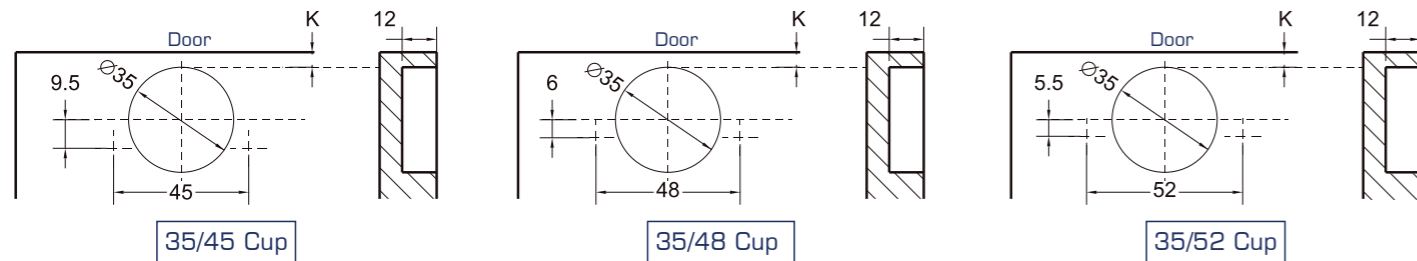
Notable Features

- Large range of adjustment.
- High tolerance for inaccuracies in cabinet manufacture.
- Two-way hinge technology extending the service life of the hinge.



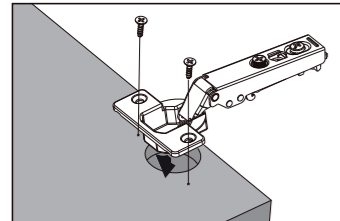
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



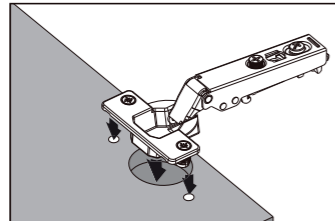
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

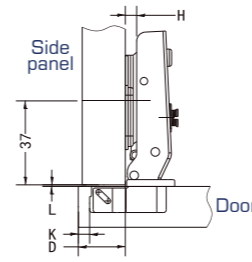
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

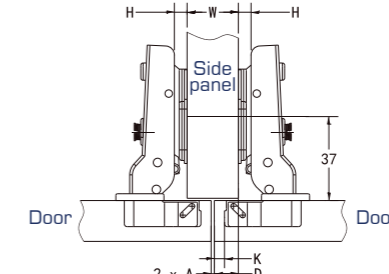
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21
4	15	16	17	18	19

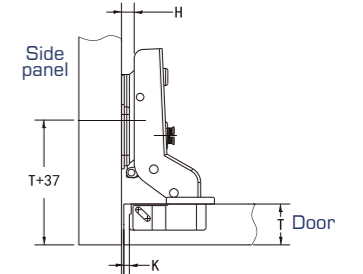
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11
4	5	6	7	8	9

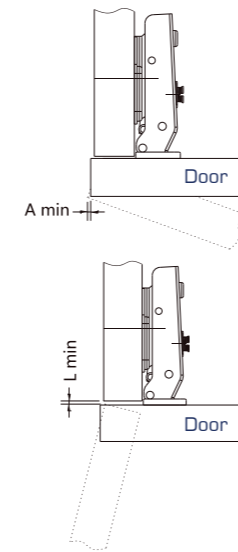
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



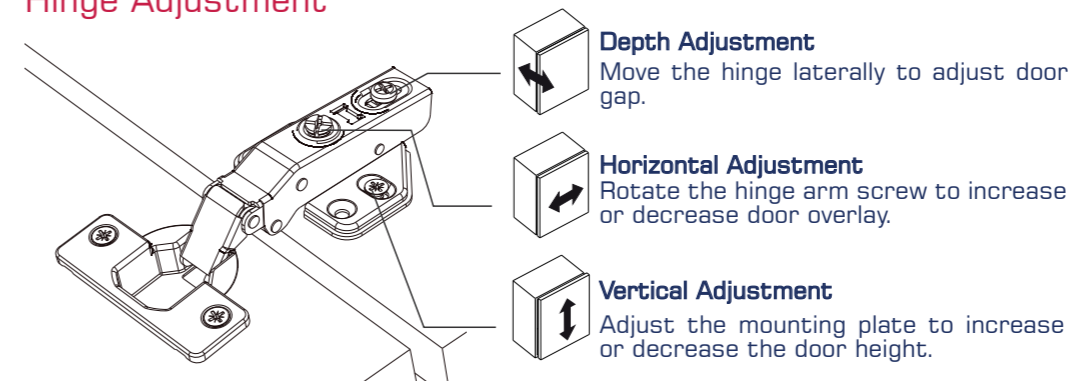
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

RB Series 105° One-way Soft Closing Concealed Hinge

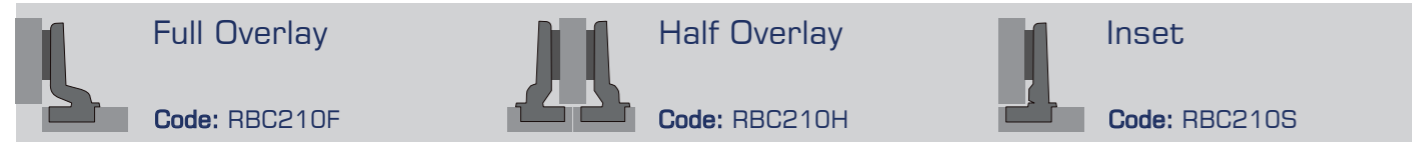


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	9 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

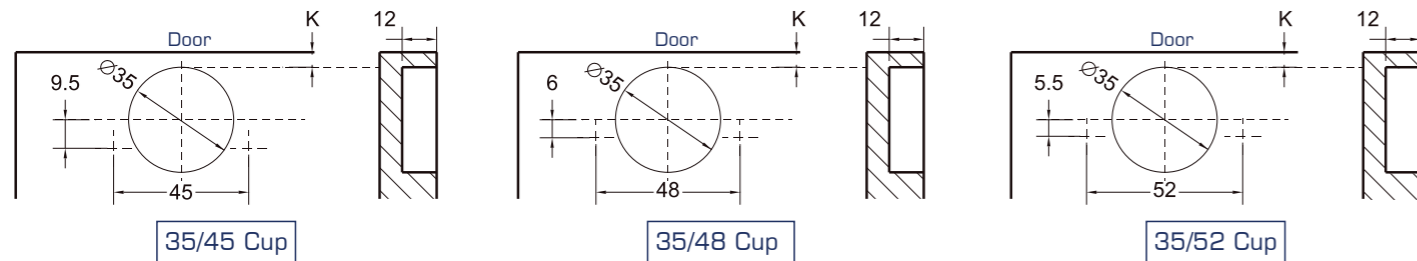
Notable Features

- Large range of adjustment.
- High tolerance for inaccuracies in cabinet manufacture.



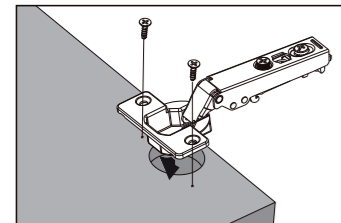
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



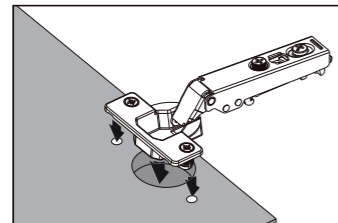
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

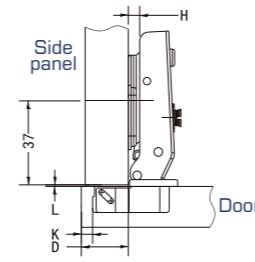
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

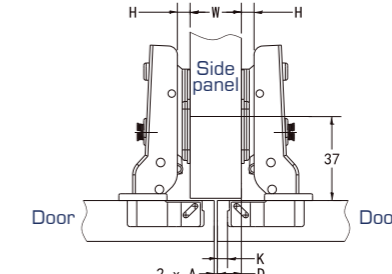
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21
4	15	16	17	18	19

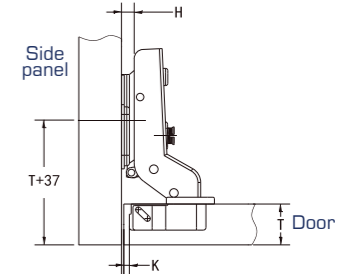
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11
4	5	6	7	8	9

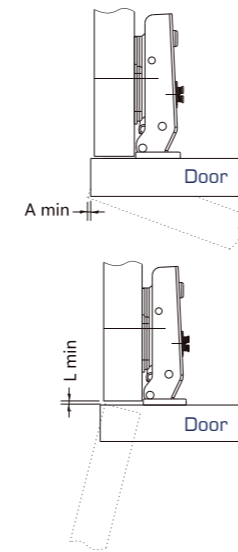
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



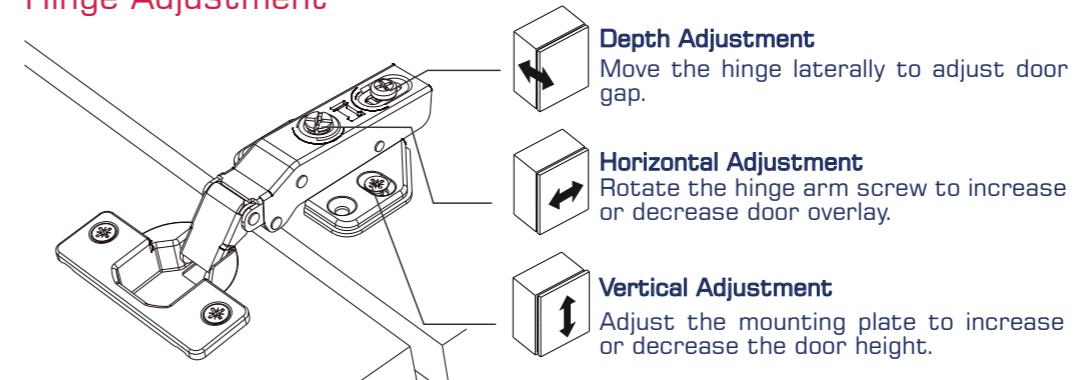
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

RB Series 105° One-way Soft Closing Concealed Hinge with Fixed Plate

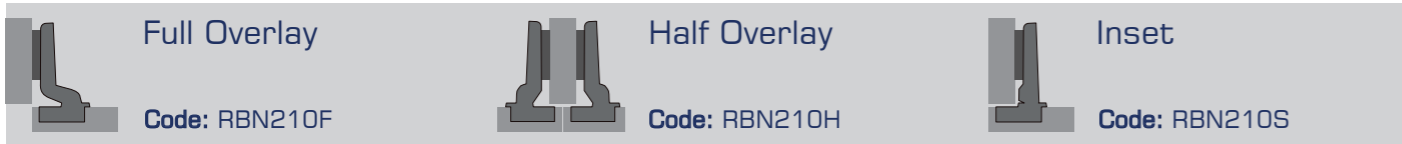


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	9 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

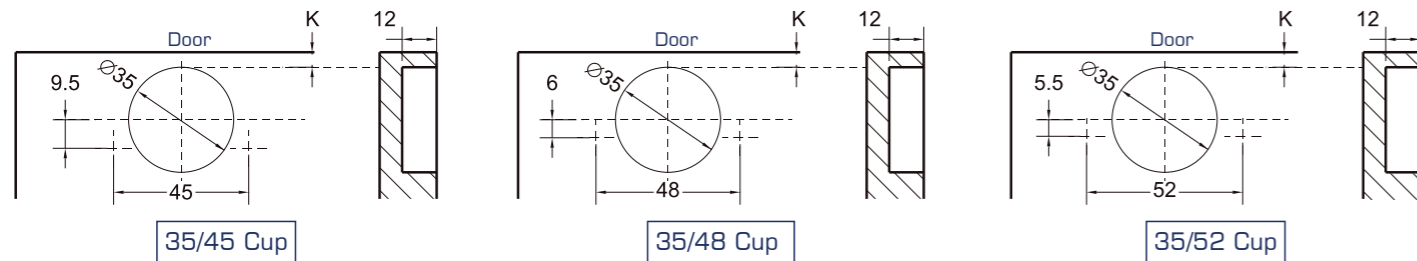
Notable Features

- Large range of adjustment.
- High tolerance for inaccuracies in cabinet manufacture.

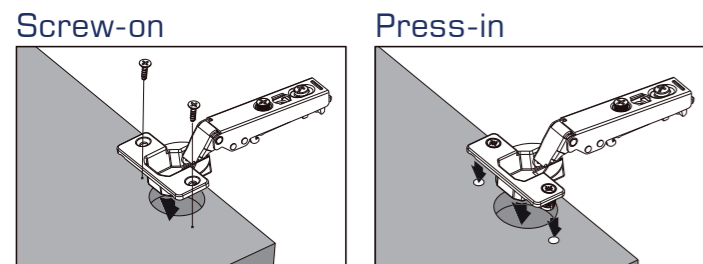


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



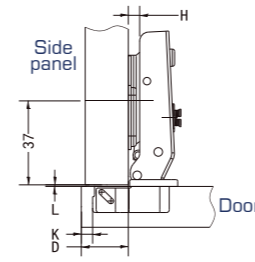
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

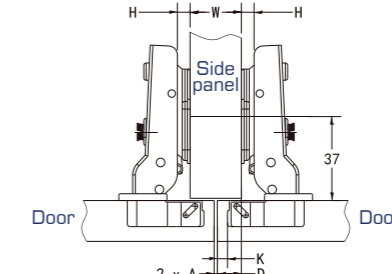
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21
4	15	16	17	18	19

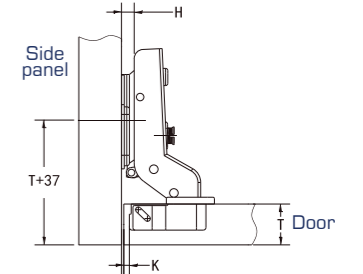
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11
4	5	6	7	8	9

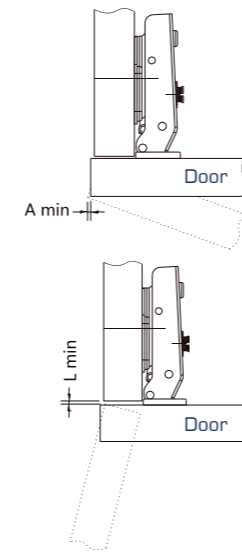
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



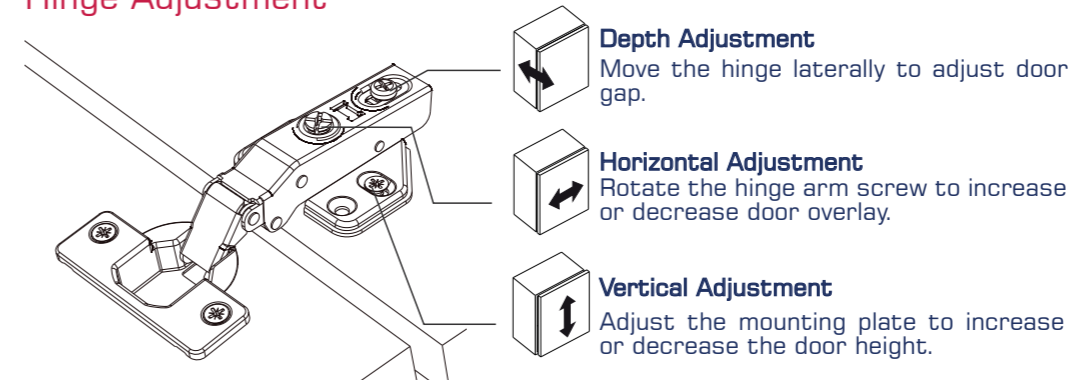
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

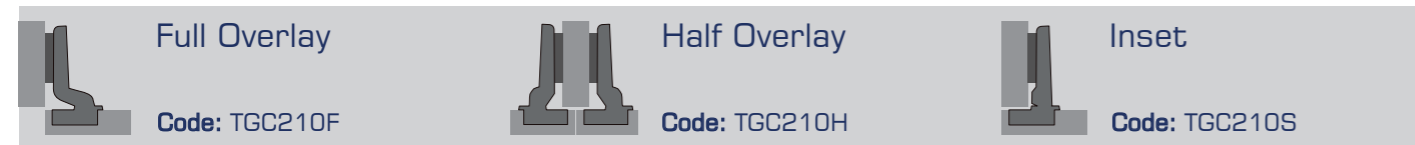


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	8 mm
Depth Adjustment Range	8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

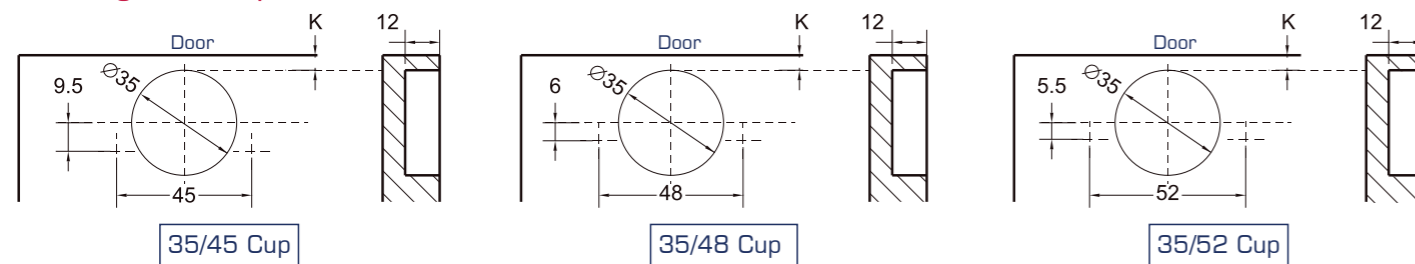
Notable Features

- Soft closing activates at very small angles.
- Ideal for children furniture.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup

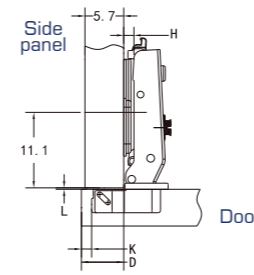


Cup Installation

Screw-on	Press-in	LIGO	VELOX
Installation Method	Installation Method	Installation Method	Installation Method
Wood Screws	8 mm Dowels	8 mm Dowels	8 mm Dowels
Euro Screws	10 mm Dowels	10 mm Dowels	8 mm Dowels
Code	Code	Code	Code
S2	K5	E5	Z5
S4	K6	E6	

Overlay Table

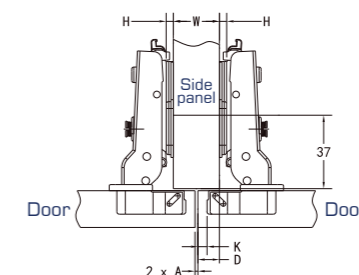
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21
4	15	16	17	18	19

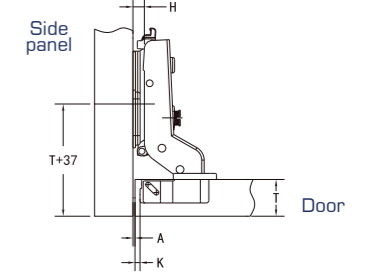
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11
4	5	6	7	8	9

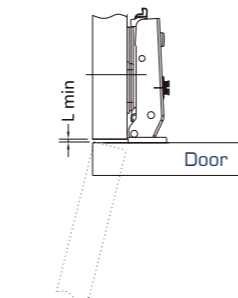
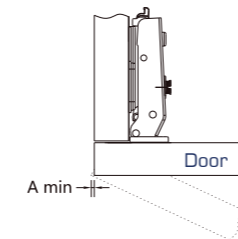
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



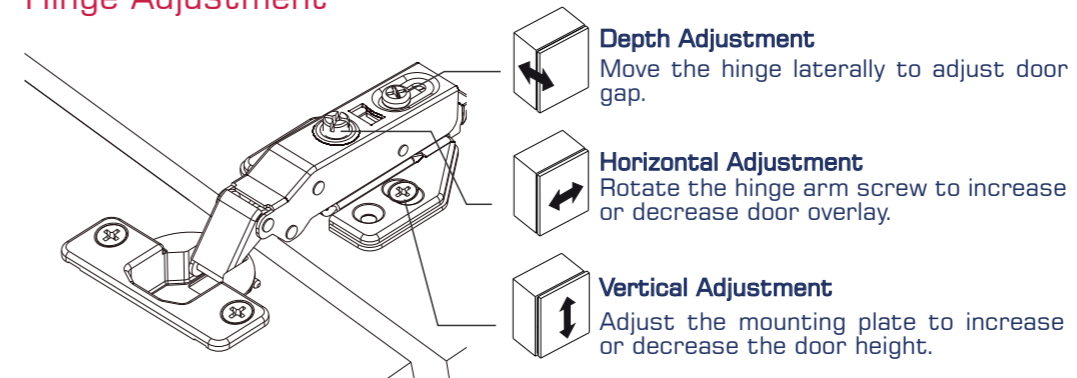
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

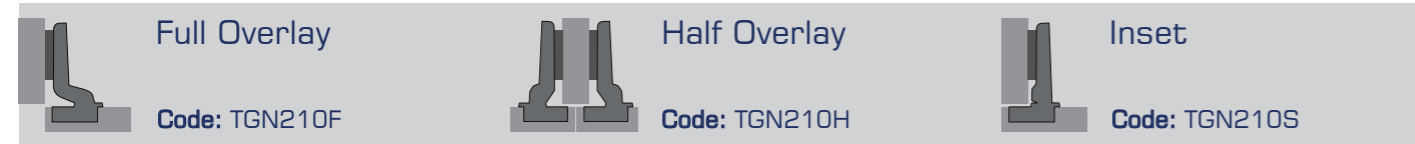


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	8 mm
Depth Adjustment Range	8 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

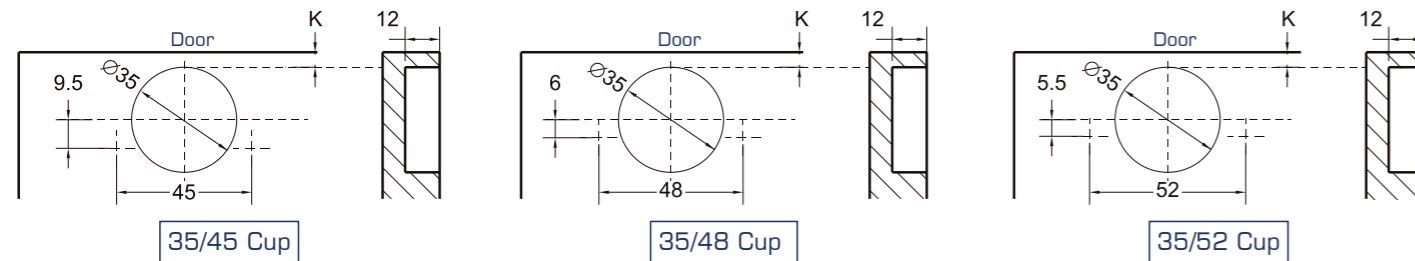
Notable Features

- Soft closing activates at very small angles.
- Ideal for children furniture.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup

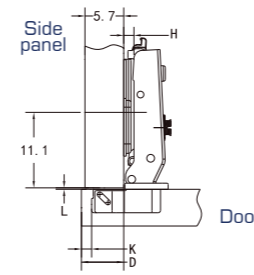


Cup Installation

Screw-on		Press-in		LIGO		VELOX	
Installation Method	Code	Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5	8 mm Dowels	Z5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6		

Overlay Table

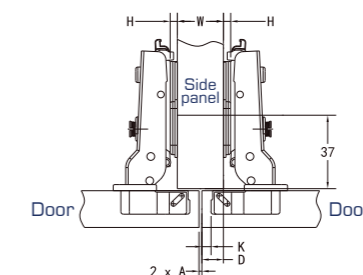
Full Overlay



$H = 16 + K - D$

D \ K	3	4	5	6	7
0	19	20	21	22	23
2	17	18	19	20	21
4	15	16	17	18	19

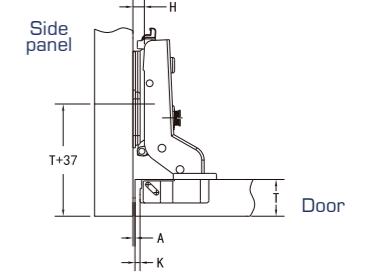
Half Overlay



$H = 6 + K - D$

D \ K	3	4	5	6	7
0	9	10	11	12	13
2	7	8	9	10	11
4	5	6	7	8	9

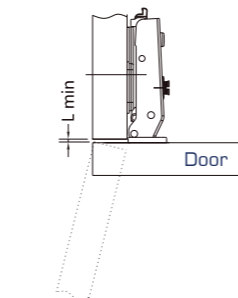
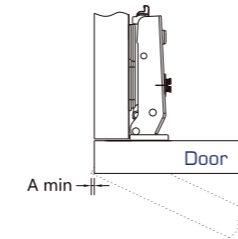
Inset



$H = -4 + K + A$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



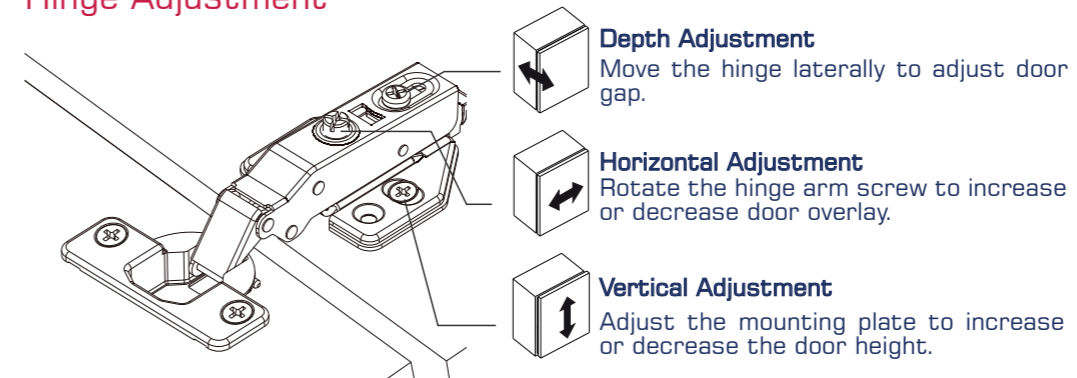
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4
7	0.2	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

LV Series 95° Soft Closing Concealed Hinge for Thick Doors (Cam Adjustable)

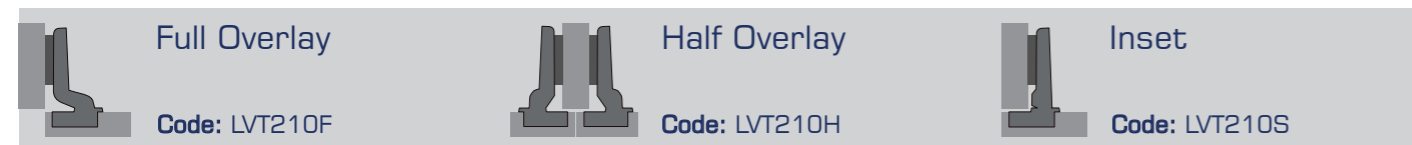


Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	12 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 8 mm
Door Thickness	15 mm - 28 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

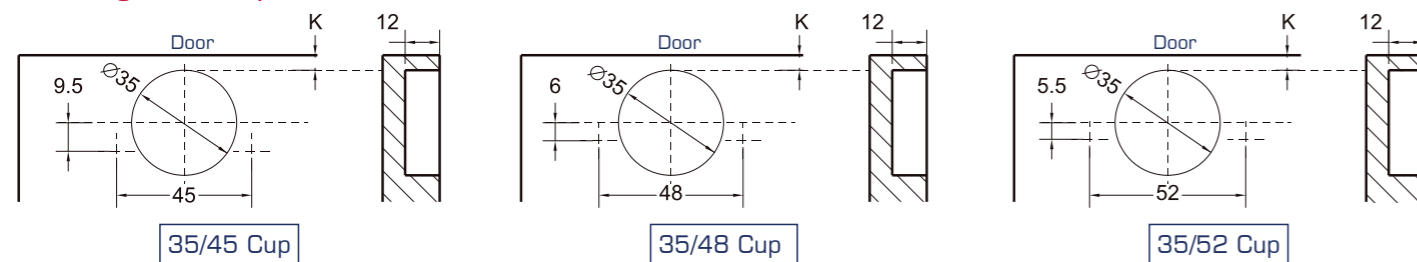
Notable Features

- Suitable for use on thick doors while using a 35 mm cup instead of conventional 40 mm.
- Saves labor time and equipment costs by eliminating the need to switch between two sets of drilling tools.

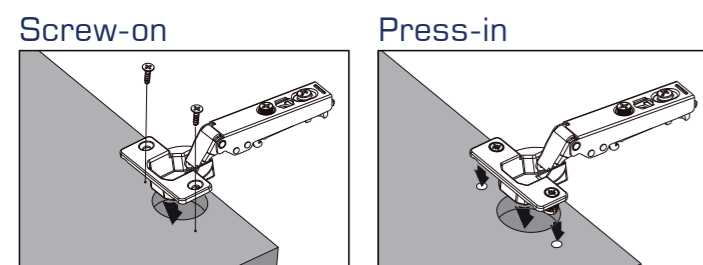


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



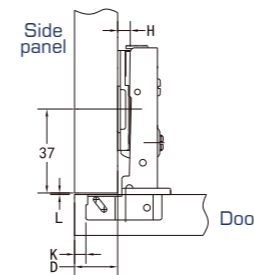
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

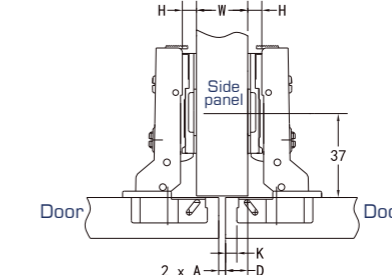
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7	8
0	17	18	19	20	21	22
2	15	16	17	18	19	20
4	13	14	15	16	17	18

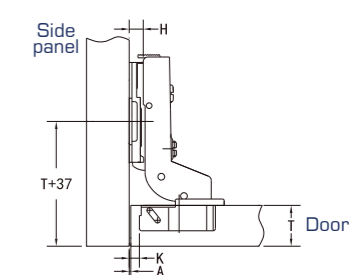
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7	8
0	7	8	9	10	11	12
2	5	6	7	8	9	10
4	3	4	5	6	7	8

Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7	8
0	1	0	-1	-2	-3	-4
2	3	2	1	0	-1	-2
4	5	4	3	2	1	0

Minimum Reveal Table

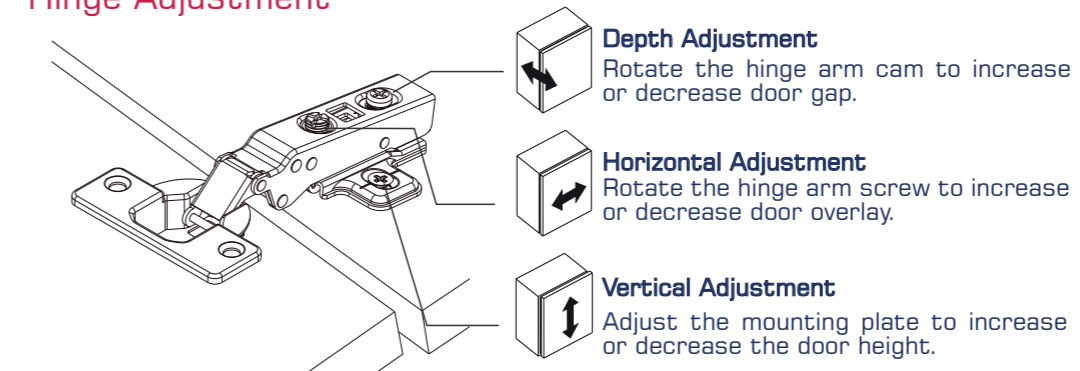
A \ K	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.4	3.9
4	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
5	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
6	0.2	0.4	0.7	0.9	1.0	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
7	0.2	0.4	0.7	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.2
8	0.2	0.4	0.7	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.2

L \ T	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

LV Series 95° Soft Closing Concealed Hinge for Thick Doors

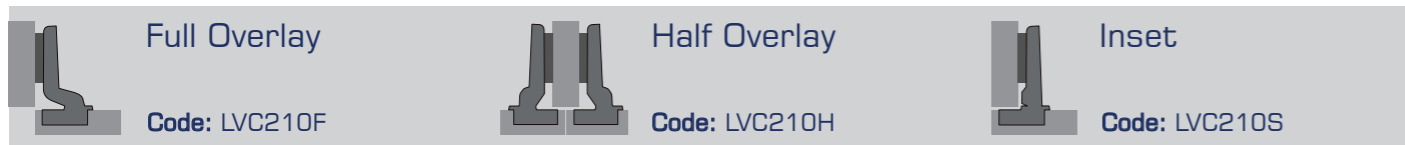


Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	12 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 8 mm
Door Thickness	15 mm - 28 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

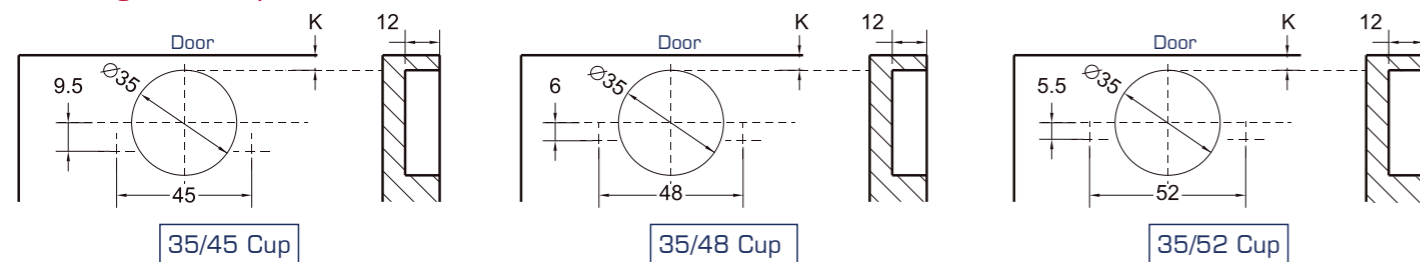
Notable Features

- Suitable for use on thick doors while using a 35 mm cup instead of conventional 40 mm.
- Saves labor time and equipment costs by eliminating the need to switch between two sets of drilling tools.



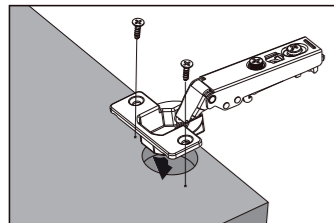
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



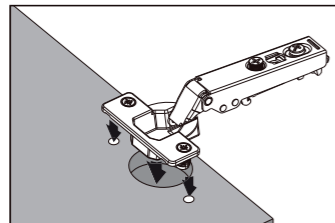
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

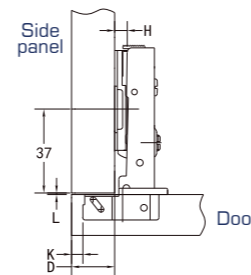
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

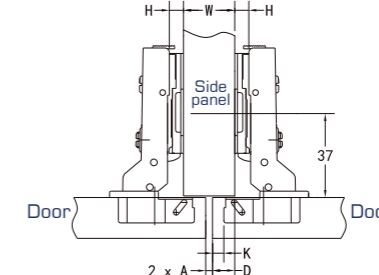
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7	8
0	17	18	19	20	21	22
2	15	16	17	18	19	20
4	13	14	15	16	17	18

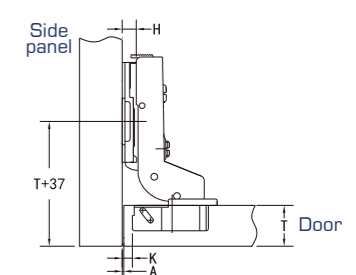
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7	8
0	7	8	9	10	11	12
2	5	6	7	8	9	10
4	3	4	5	6	7	8

Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7	8
0	1	0	-1	-2	-3	-4
2	3	2	1	0	-1	-2
4	5	4	3	2	1	0

Minimum Reveal Table

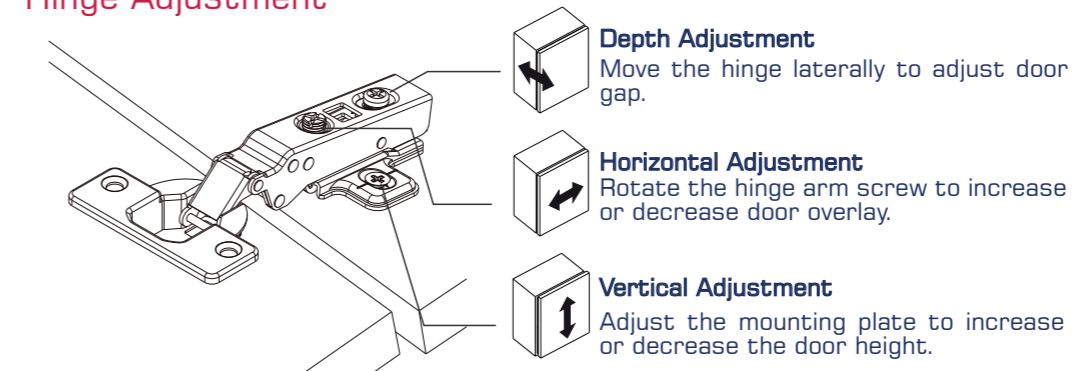
A \ K	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.4	3.9
4	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
5	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
6	0.2	0.4	0.7	0.9	1.0	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
7	0.2	0.4	0.7	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.2
8	0.2	0.4	0.7	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.2

L \ T	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

LV Series 95° Soft Closing Concealed Hinge for Thick Doors with Fixed Plate


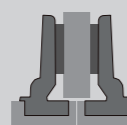



Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	12 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 8 mm
Door Thickness	15 mm - 28 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

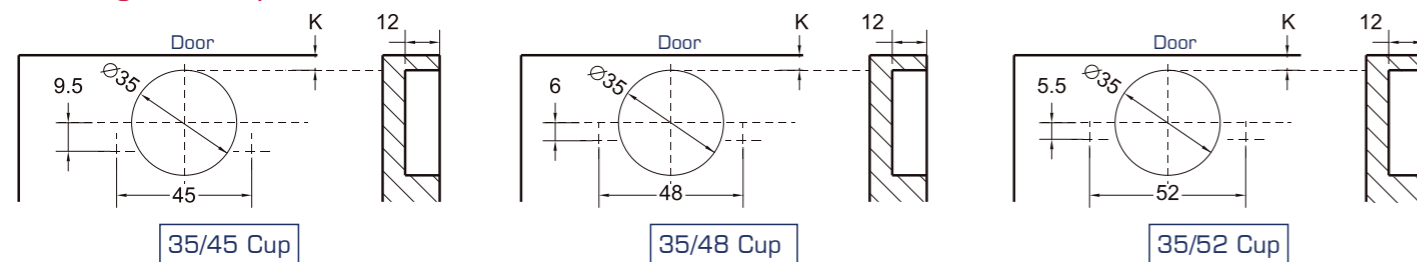
Notable Features

- Suitable for use on thick doors while using a 35 mm cup instead of conventional 40 mm.
- Saves labor time and equipment costs by eliminating the need to switch between two sets of drilling tools.

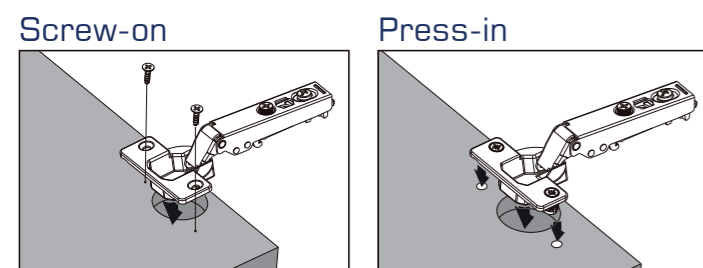
 Full Overlay Code: LVN210F	 Half Overlay Code: LVN210H	 Inset Code: LVN210S
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Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



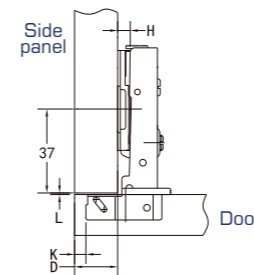
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

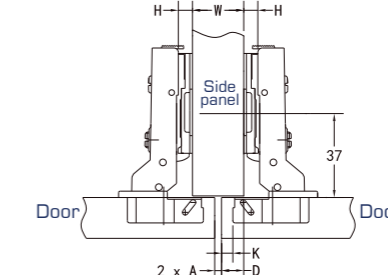
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7	8
0	17	18	19	20	21	22
2	15	16	17	18	19	20
4	13	14	15	16	17	18

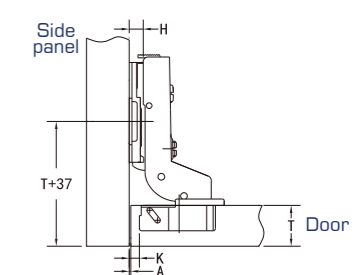
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7	8
0	7	8	9	10	11	12
2	5	6	7	8	9	10
4	3	4	5	6	7	8

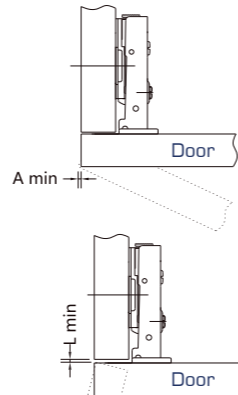
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7	8
0	1	0	-1	-2	-3	-4
2	3	2	1	0	-1	-2
4	5	4	3	2	1	0

Minimum Reveal Table



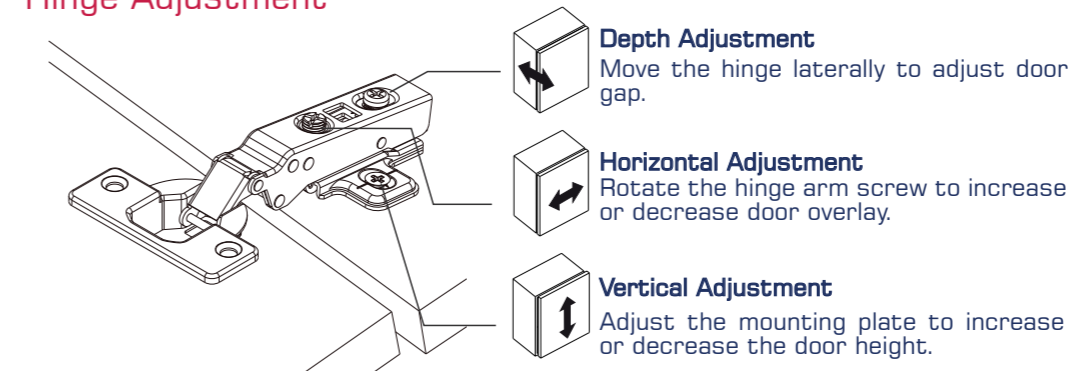
A \ K	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.4	3.9
4	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
5	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
6	0.2	0.4	0.7	0.9	1.0	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3
7	0.2	0.4	0.7	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.2
8	0.2	0.4	0.7	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.2

L \ T	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	13.5 mm
Cup Diameter	40 mm
Drilling Distance	3 mm - 11 mm
Door Thickness	18 mm - 30 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

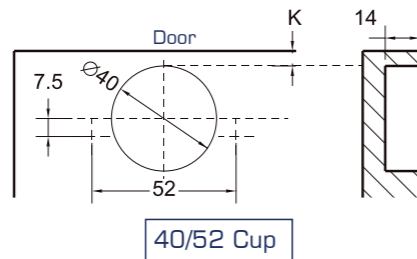
Notable Features

- Classic 40 mm cup design.
- Two-way hinge technology extending the service life of the hinge.

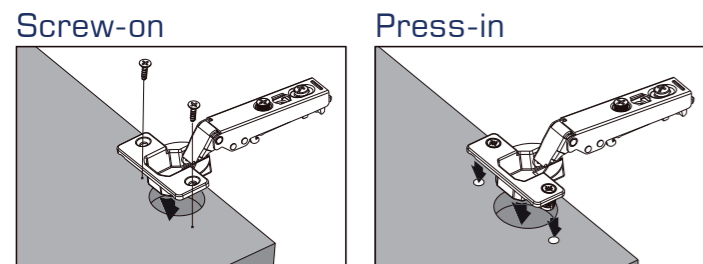


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring
 PO - Push-to-Open

Drilling For Cup



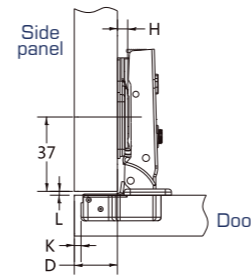
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

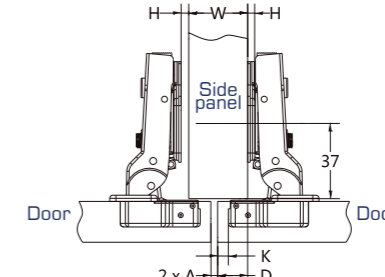
Full Overlay



$$H = 20 + K - D$$

D \ K	3	4	5	6	7	MAX=11
0	23	24	25	26	27	...
2	21	22	23	24	25	...
4	19	20	21	22	23	...

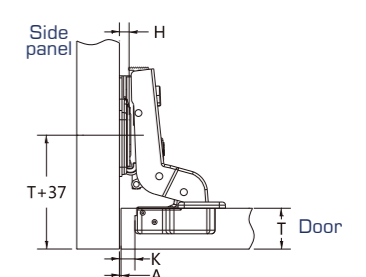
Half Overlay



$$H = 10 + K - D$$

D \ K	3	4	5	6	7	MAX=11
0	13	14	15	16	17	...
2	11	12	13	14	15	...
4	9	10	11	12	13	...

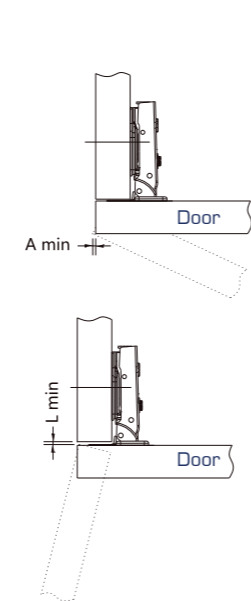
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



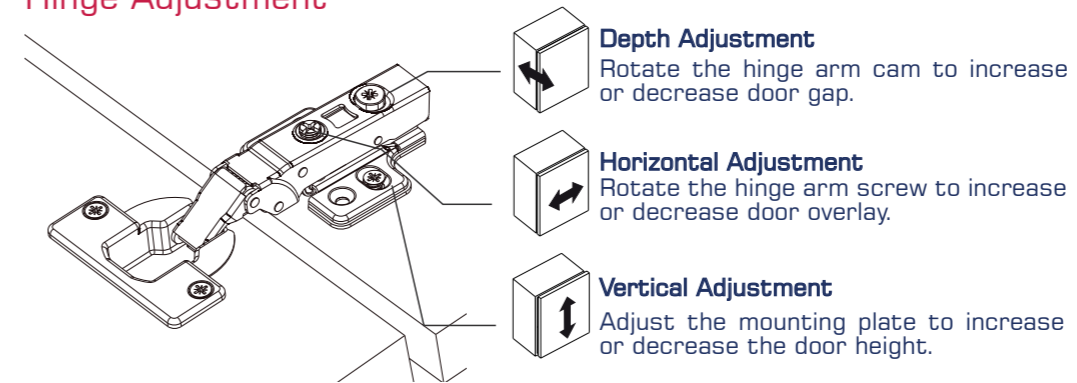
A \ K	18	19	20	21	22	23	24	25	26	27	28	29	30
3	0.0	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.2	2.5	2.8
4	0.0	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.4	2.8
5	0.0	0.3	0.5	0.6	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.4	2.7
6	0.0	0.3	0.5	0.6	0.7	0.9	1.1	1.3	1.6	1.8	2.1	2.3	2.7
7	0.0	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.3	2.6
8	0.0	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.3	2.6
9	0.0	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.6	1.9	2.1	2.5
10	0.0	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.6	1.9	2.1	2.4
11	0.0	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.6	1.8	2.0	2.3

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

L \ K	18	19	20	21	22	23	24	25	26	27	28	29	30
3 - 9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2
11	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

LD Series 95° One-way Soft Closing Concealed Hinge for Thick Doors (Cam Adjustable)



Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	13.5 mm
Cup Diameter	40 mm
Drilling Distance	3 mm - 11 mm
Door Thickness	18 mm - 30 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

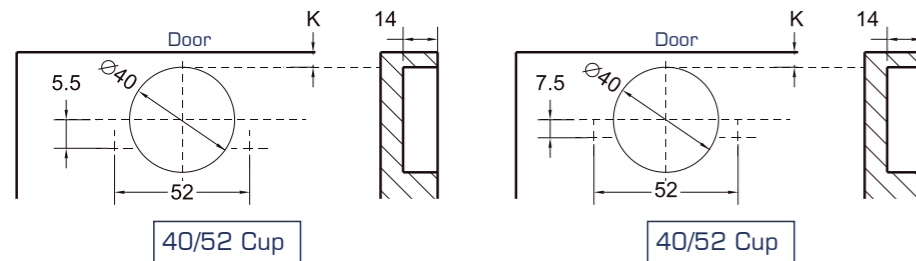
Notable Features

- Classic 40 mm cup design.

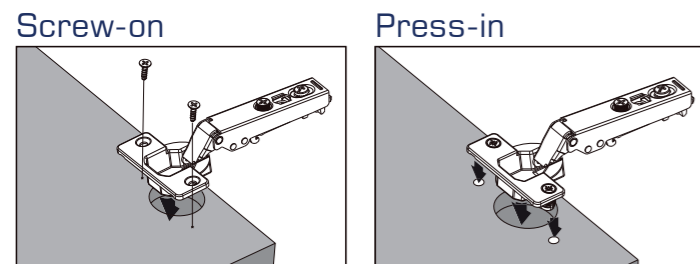


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



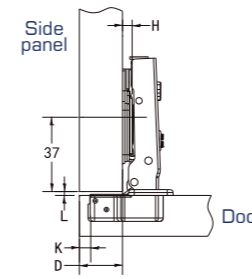
Cup Installation



Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

Overlay Table

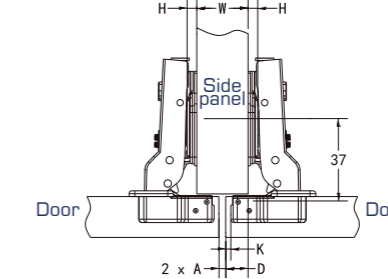
Full Overlay



$$H = 18 + K - D$$

D \ K	3	4	5	6	7	MAX=11
0	21	22	23	24	25	...
2	19	20	21	22	23	...
4	17	18	19	20	21	...

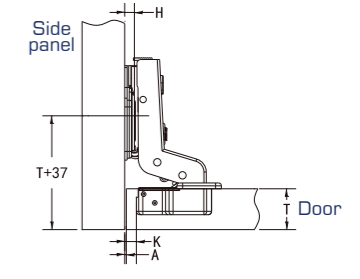
Half Overlay



$$H = 10 + K - D$$

D \ K	3	4	5	6	7	MAX=11
0	13	14	15	16	17	...
2	11	12	13	14	15	...
4	9	10	11	12	13	...

Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table

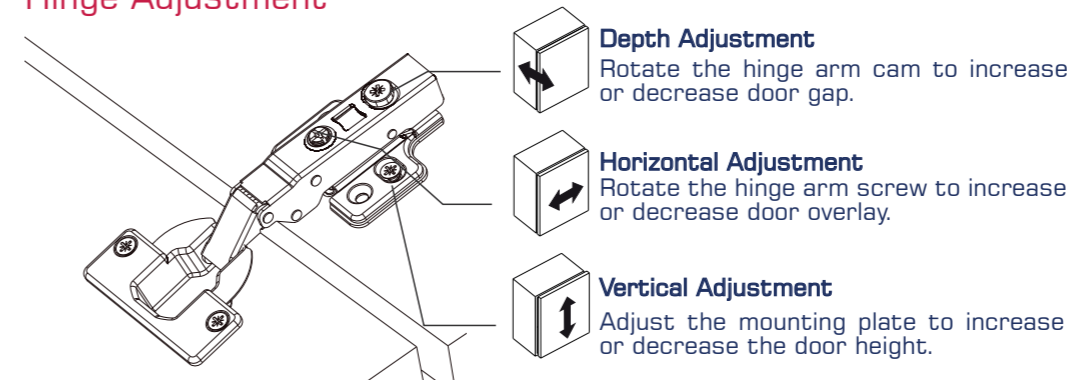
A \ T \ K	18	19	20	21	22	23	24	25	26	27	28	29	30
3	0.0	0.1	0.5	0.8	1.1	1.5	1.8	2.2	2.5	2.8	3.2	3.5	3.9
4	0.0	0.0	0.4	0.7	1.1	1.4	1.8	2.1	2.4	2.8	3.1	3.5	3.8
5	0.0	0.0	0.3	0.7	1.0	1.4	1.7	2.0	2.4	2.7	3.1	3.4	3.8
6	0.0	0.0	0.3	0.6	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7
7	0.0	0.0	0.2	0.6	0.9	1.2	1.6	1.9	2.3	2.6	2.9	3.3	3.6
8	0.0	0.0	0.2	0.5	0.9	1.2	1.5	1.9	2.3	2.6	2.9	3.3	3.6
9	0.0	0.0	0.1	0.5	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.2	3.5
10	0.0	0.0	0.1	0.4	0.9	1.2	1.5	1.7	2.2	2.5	2.8	3.2	3.5
11	0.0	0.0	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.4	2.7	3.0	3.4

L \ T \ K	18	19	20	21	22	23	24	25	26	27	28	29	30
3 - 9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
11	1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP



Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	13.5 mm
Cup Diameter	40 mm
Drilling Distance	3 mm - 11 mm
Door Thickness	18 mm - 30 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

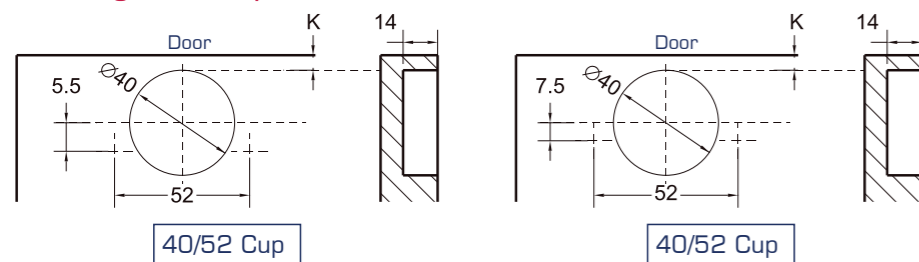
Notable Features

- Classic 40 mm cup design.



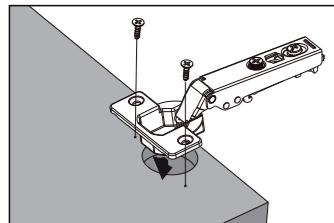
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



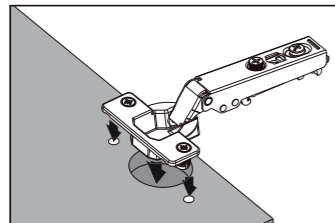
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

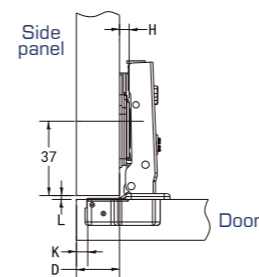
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

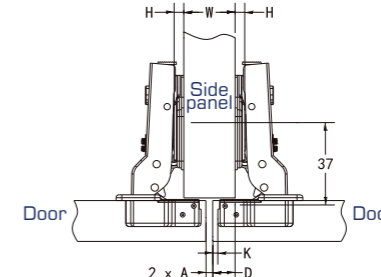
Full Overlay



$H = 18 + K - D$

D \ K	3	4	5	6	7	MAX=11
0	21	22	23	24	25	...
2	19	20	21	22	23	...
4	17	18	19	20	21	...

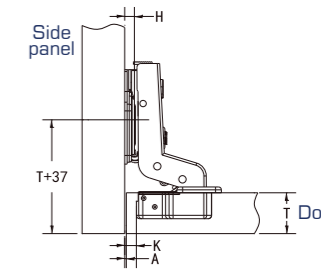
Half Overlay



$H = 10 + K - D$

D \ K	3	4	5	6	7	MAX=11
0	13	14	15	16	17	...
2	11	12	13	14	15	...
4	9	10	11	12	13	...

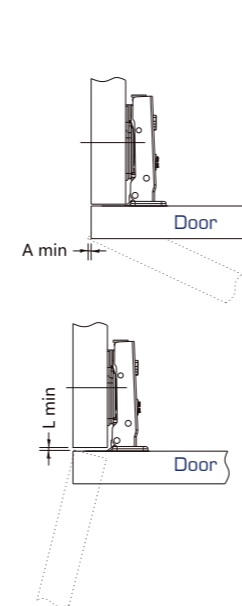
Inset



$H = -4 + K + A$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



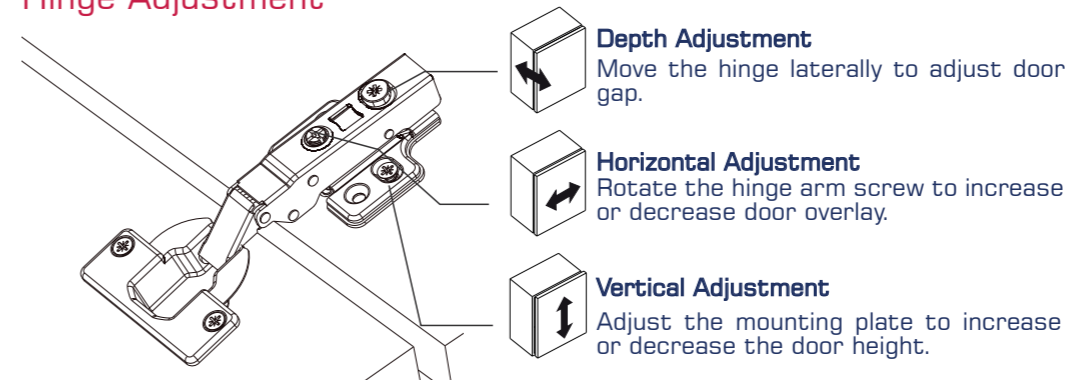
A \ T \ K	18	19	20	21	22	23	24	25	26	27	28	29	30
3	0.0	0.1	0.5	0.8	1.1	1.5	1.8	2.2	2.5	2.8	3.2	3.5	3.9
4	0.0	0.0	0.4	0.7	1.1	1.4	1.8	2.1	2.4	2.8	3.1	3.5	3.8
5	0.0	0.0	0.3	0.7	1.0	1.4	1.7	2.0	2.4	2.7	3.1	3.4	3.8
6	0.0	0.0	0.3	0.6	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7
7	0.0	0.0	0.2	0.6	0.9	1.2	1.6	1.9	2.3	2.6	2.9	3.3	3.6
8	0.0	0.0	0.2	0.5	0.9	1.2	1.5	1.9	2.3	2.6	2.9	3.3	3.6
9	0.0	0.0	0.1	0.5	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.2	3.5
10	0.0	0.0	0.1	0.4	0.9	1.2	1.5	1.7	2.2	2.5	2.8	3.2	3.5
11	0.0	0.0	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.4	2.7	3.0	3.4

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

L \ T \ K	18	19	20	21	22	23	24	25	26	27	28	29	30
3 - 9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
11	1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

JW Series 105° Two-way Regular Concealed Hinge (Cam Adjustable)

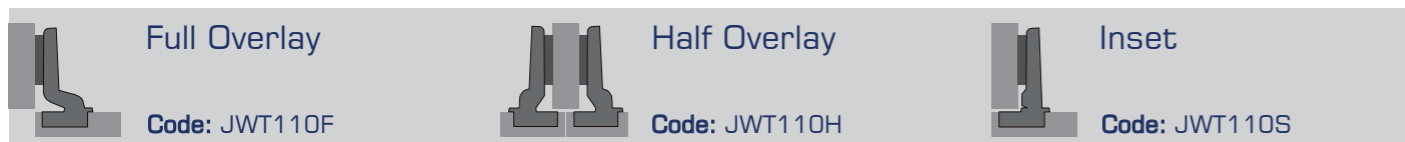


Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

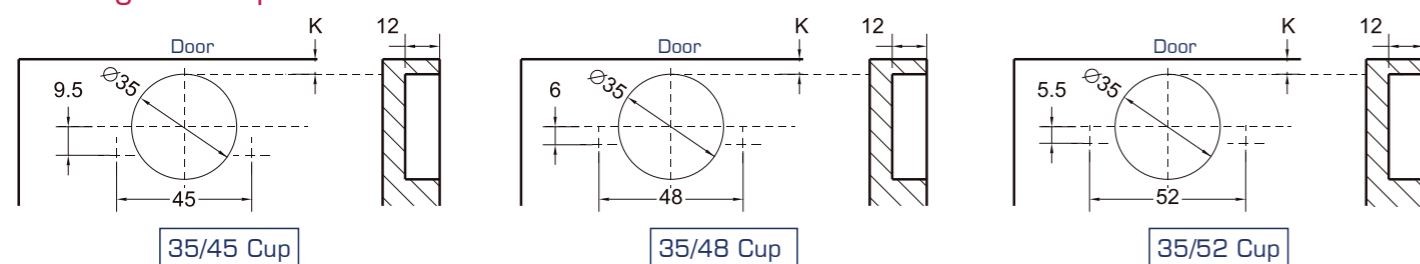
Notable Features

- Auto Closing Hinge.
- Two-way hinge technology extending the service life of the hinge.

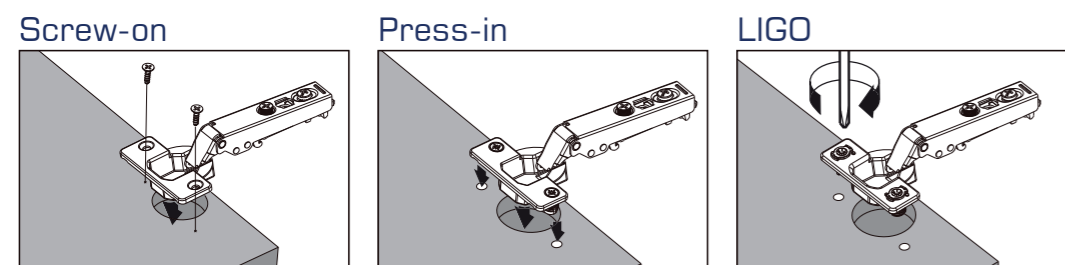


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



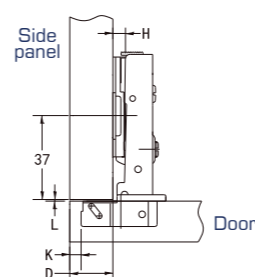
Cup Installation



Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6

Overlay Table

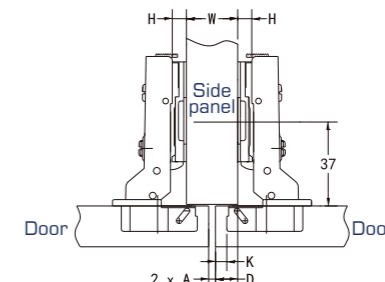
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

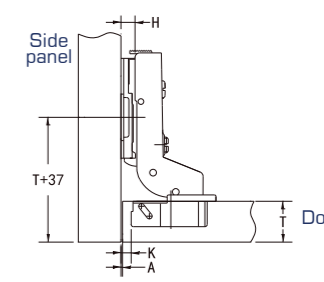
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

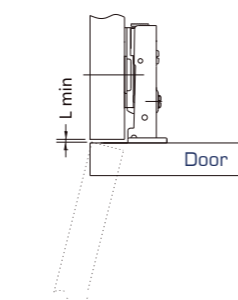
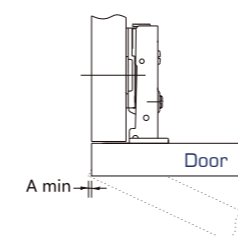
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



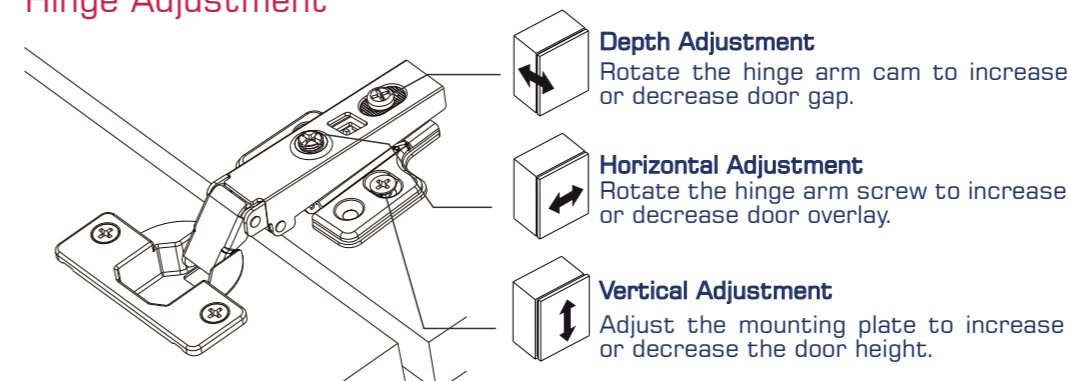
A \ K	14	15	16	17	18	19	20	21	22
3	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.2	3.6
4	1.3	1.5	1.7	1.9	2.1	2.4	2.8	3.1	3.5
5	1.2	1.4	1.6	1.9	2.1	2.4	2.7	3.0	3.4
6	1.2	1.4	1.6	1.8	2.1	2.3	2.6	3.0	3.4
7	1.2	1.4	1.5	1.8	2.0	2.3	2.6	2.9	3.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

JW Series 105° Two-way Regular Concealed Hinge

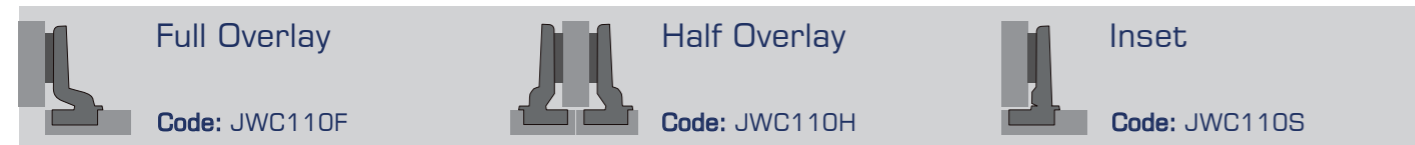


Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

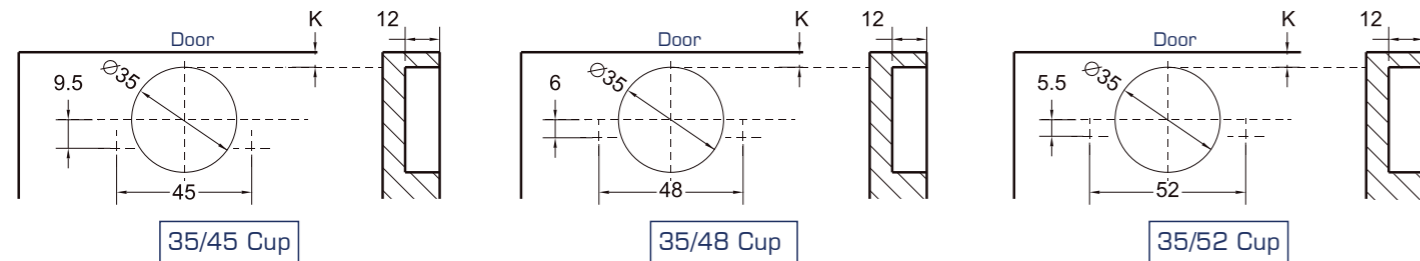
Notable Features

- Auto Closing Hinge.
- Two-way hinge technology extending the service life of the hinge.

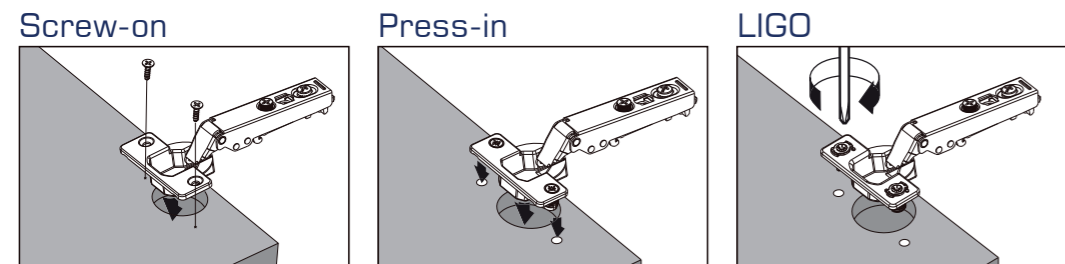


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



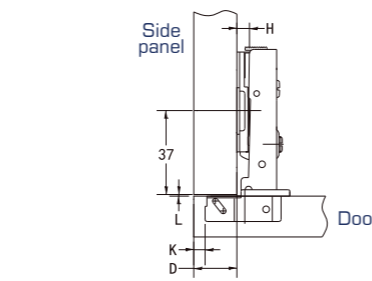
Cup Installation



Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6

Overlay Table

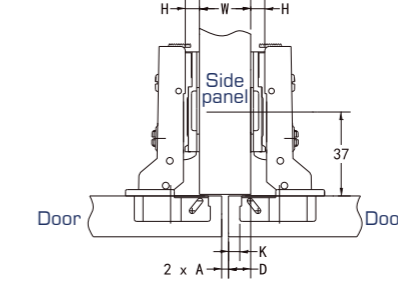
Full Overlay



$H = 16 + K - D$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

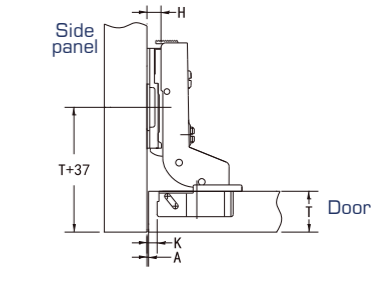
Half Overlay



$H = 6 + K - D$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

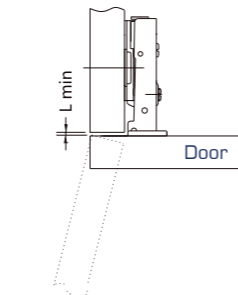
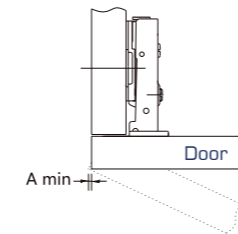
Inset



$H = -4 + K + A$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



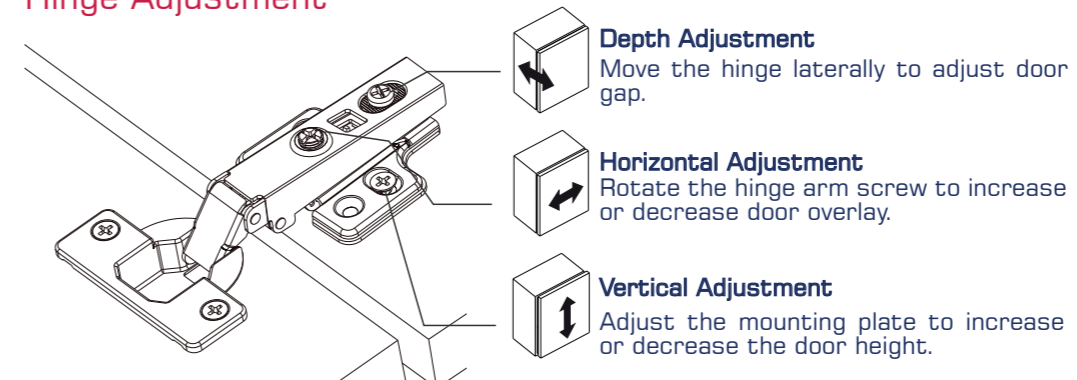
A \ K	14	15	16	17	18	19	20	21	22
3	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.2	3.6
4	1.3	1.5	1.7	1.9	2.1	2.4	2.8	3.1	3.5
5	1.2	1.4	1.6	1.9	2.1	2.4	2.7	3.0	3.4
6	1.2	1.4	1.6	1.8	2.1	2.3	2.6	3.0	3.4
7	1.2	1.4	1.5	1.8	2.0	2.3	2.6	2.9	3.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

JW Series 105° Slide-on Two-way Regular Concealed Hinge


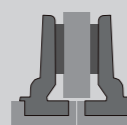



Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Slide On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

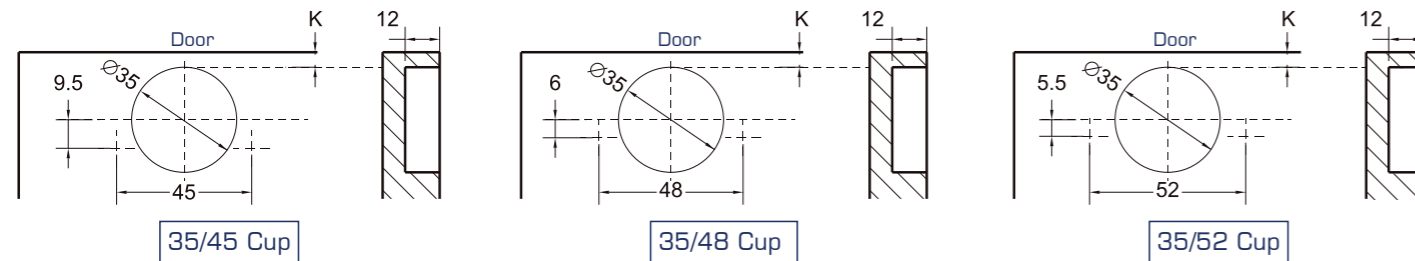
Notable Features

- Auto Closing Hinge.
- Two-way hinge technology extending the service life of the hinge.

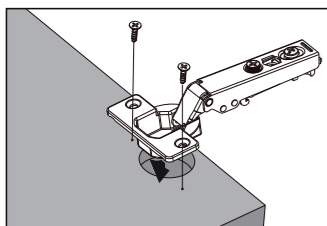
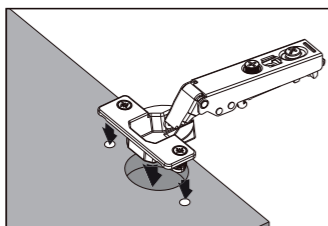
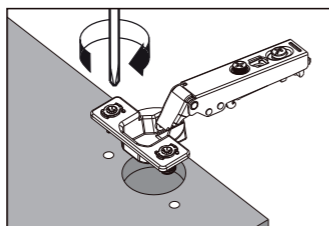
 Full Overlay Code: JWW110F	 Half Overlay Code: JWW110H	 Inset Code: JWW110S
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Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup

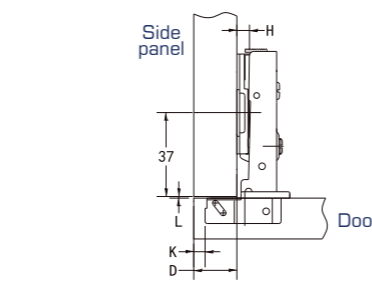


Cup Installation

		
Installation Method Wood Screws Euro Screws	Installation Method 8 mm Dowels 10 mm Dowels	Installation Method 8 mm Dowels 10 mm Dowels
Code S2 S4	Code K5 K6	Code E5 E6

Overlay Table

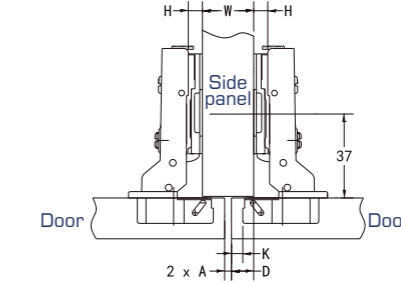
Full Overlay



$$H = 16 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

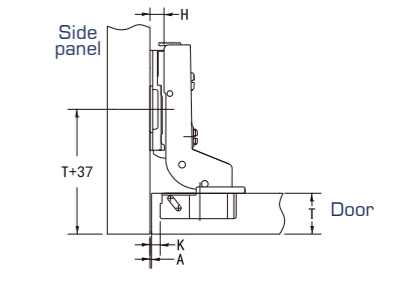
Half Overlay



$$H = 6 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

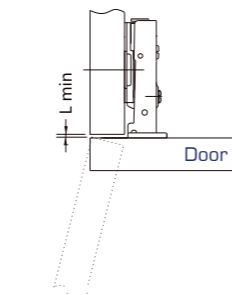
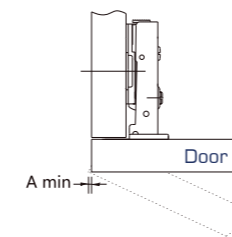
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



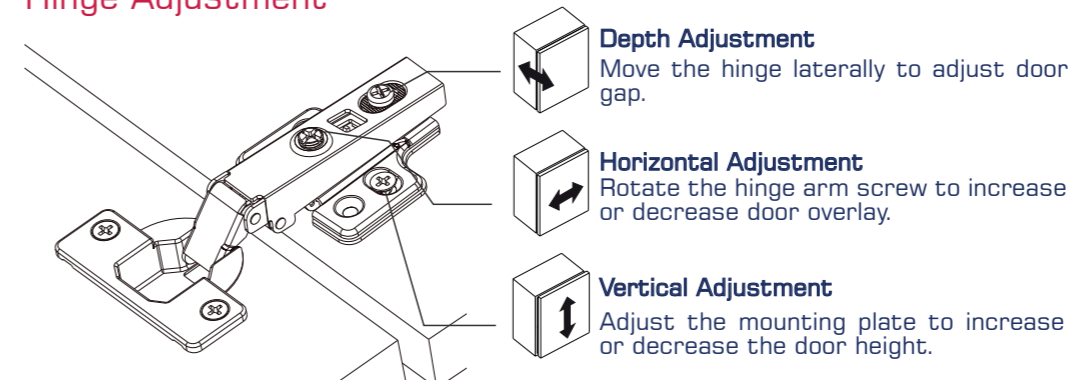
A \ K	14	15	16	17	18	19	20	21	22
3	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.2	3.6
4	1.3	1.5	1.7	1.9	2.1	2.4	2.8	3.1	3.5
5	1.2	1.4	1.6	1.9	2.1	2.4	2.7	3.0	3.4
6	1.2	1.4	1.6	1.8	2.1	2.3	2.6	3.0	3.4
7	1.2	1.4	1.5	1.8	2.0	2.3	2.6	2.9	3.3

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0
7	2.0	2.3	2.5	2.7	3.0	3.2	3.5	3.7	3.9

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: RT RF



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	10.9 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	3 mm
Overlay Adjustment Range	3.8 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- In-cup soft closing mechanism for sleek and compact design.
- Convenient 3D adjustment on hinge arm.
- Heavy duty product achieving 100,000 test cycles.

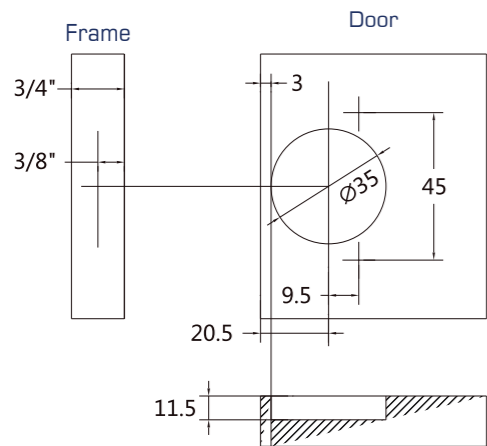
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

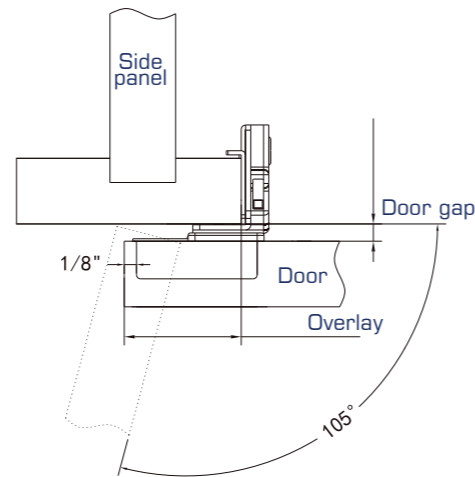
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
TP - Pair of Hinges with Screws in Sealed Bag

Full Overlay
Code: HDT210G

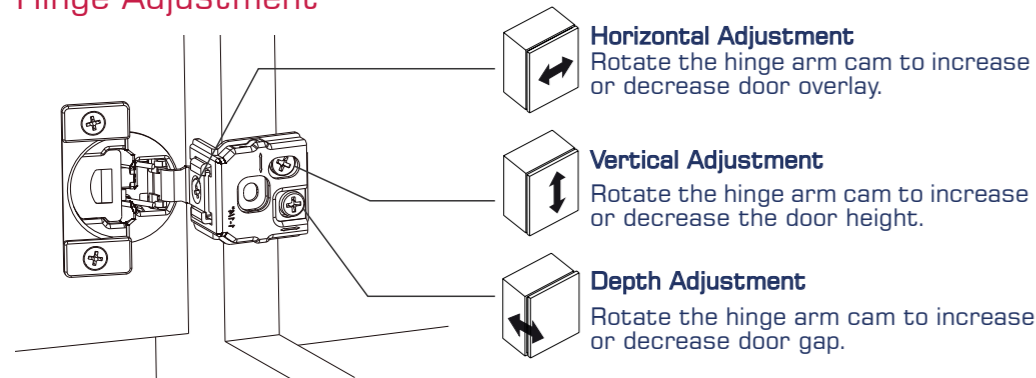
Boring Pattern



Dimensions



Hinge Adjustment



Note: The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	10.9 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	3 mm
Overlay Adjustment Range	3.8 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- In-cup soft closing mechanism for sleek and compact design.
- Convenient 3D adjustment on hinge arm.
- Heavy duty product achieving 100,000 test cycles.

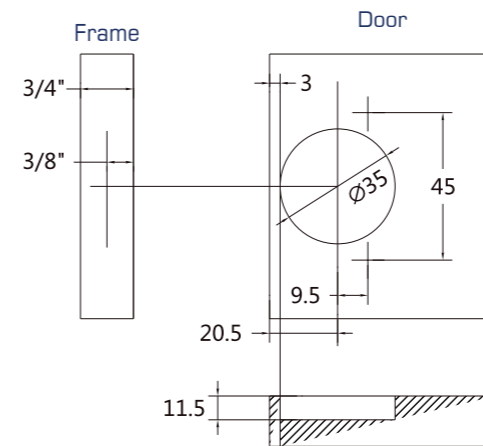
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

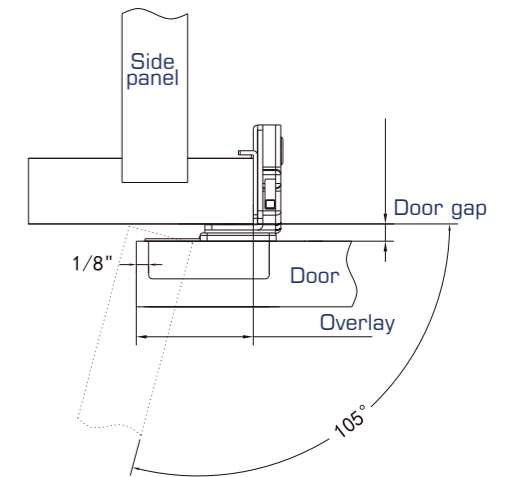
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
TP - Pair of Hinges with Screws in Sealed Bag

Full Overlay
Code: HDT210A

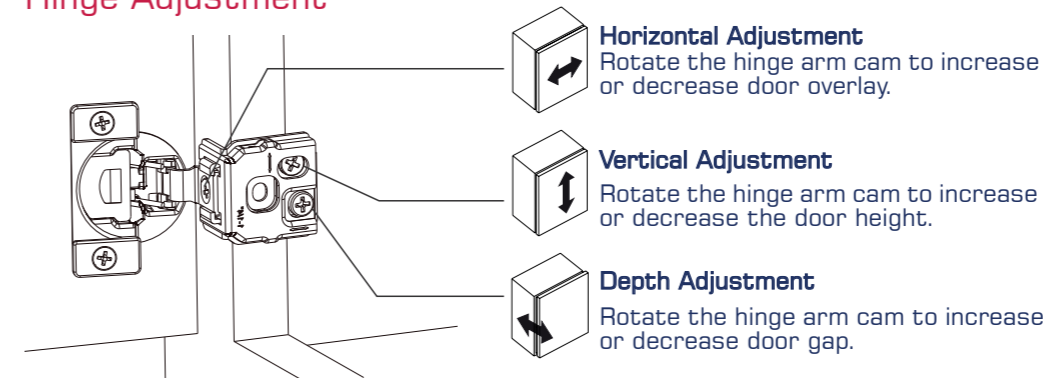
Boring Pattern



Dimensions



Hinge Adjustment



Note: The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	10.9 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	3 mm
Overlay Adjustment Range	3.8 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- In-cup soft closing mechanism for sleek and compact design.
- Convenient 3D adjustment on hinge arm.
- Heavy duty product achieving 100,000 test cycles.

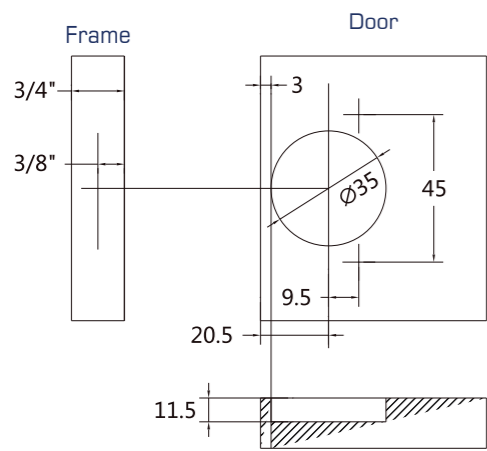
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

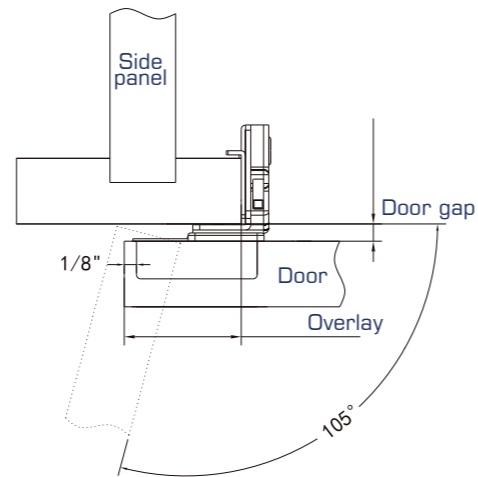
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
 TP - Pair of Hinges with Screws in Sealed Bag

Full Overlay
Code: HDT210B

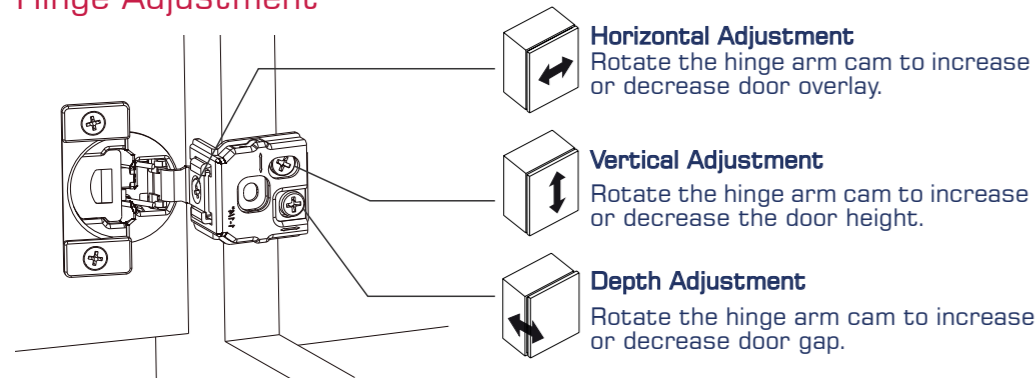
Boring Pattern



Dimensions



Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	10.9 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	3 mm
Overlay Adjustment Range	3.8 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- In-cup soft closing mechanism for sleek and compact design.
- Convenient 3D adjustment on hinge arm.
- Heavy duty product achieving 100,000 test cycles.

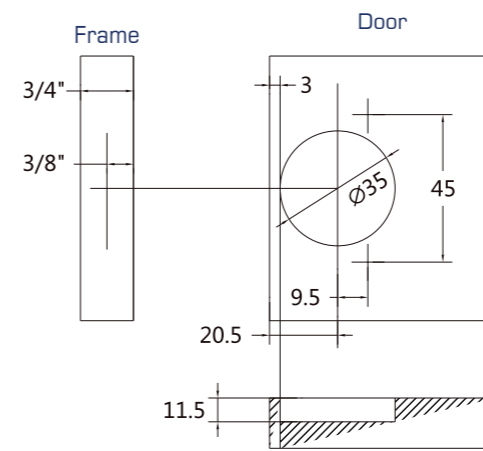
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

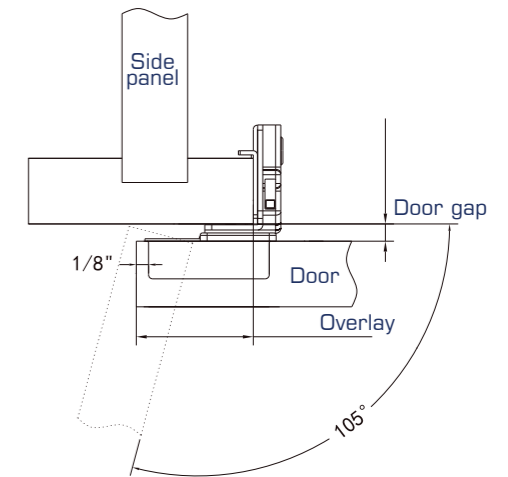
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
 TP - Pair of Hinges with Screws in Sealed Bag

Full Overlay
Code: HDT210E

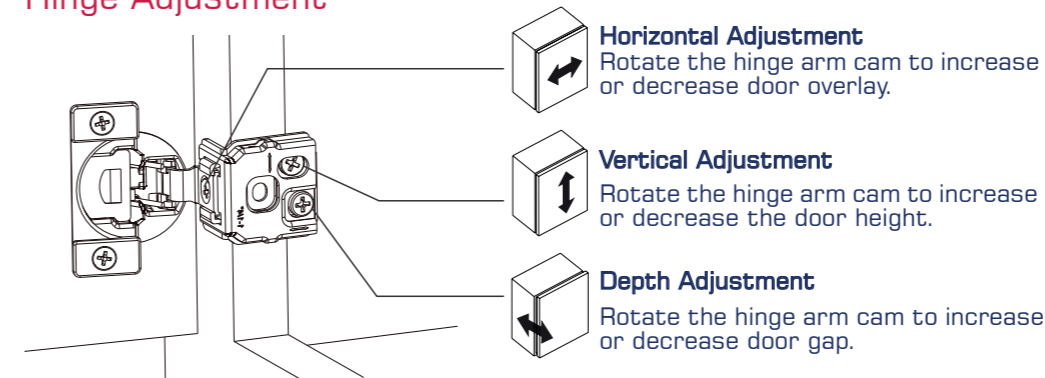
Boring Pattern



Dimensions



Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

HD SERIES

HD Series 105° 3D Soft Closing Concealed Hinge for Face Frame Cabinets 3/4"



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	10.9 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	3 mm
Overlay Adjustment Range	3 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- In-cup soft closing mechanism for sleek and compact design.
- Convenient 3D adjustment on hinge arm.
- Heavy duty product achieving 100,000 test cycles.

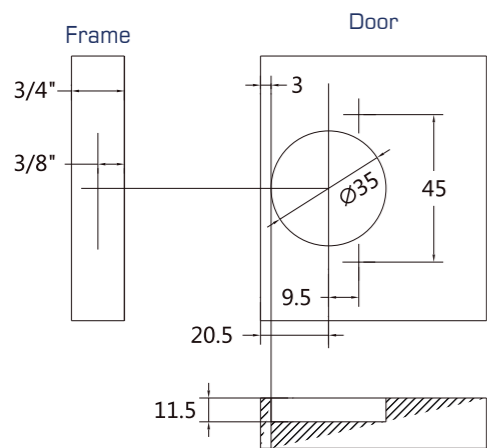
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

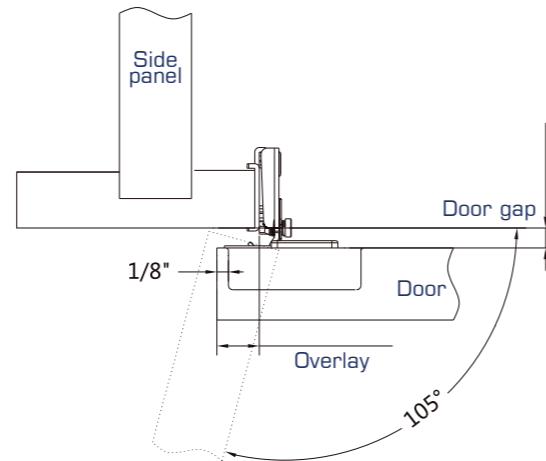
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
TP - Pair of Hinges with Screws in Sealed Bag

Full Overlay
Code: HDT210D

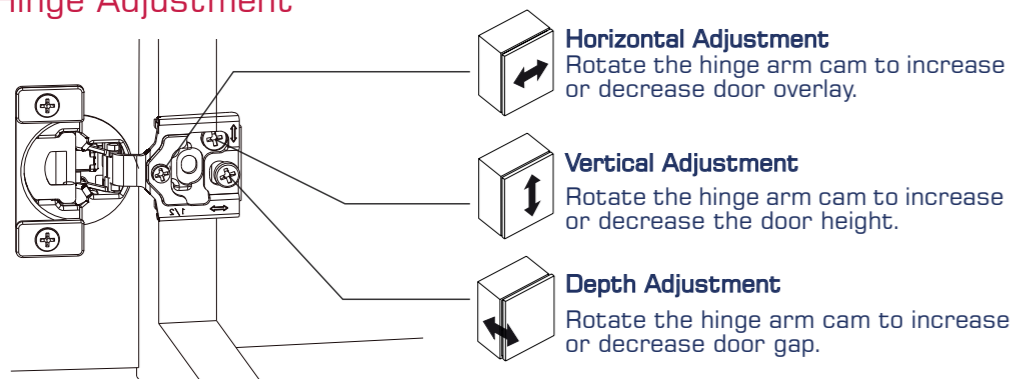
Boring Pattern



Dimensions



Hinge Adjustment



Note: The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

HD SERIES

HD Series 105° 3D Soft Closing Concealed Hinge for Face Frame Cabinets 1/2"



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	10.9 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	3 mm
Overlay Adjustment Range	3 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- In-cup soft closing mechanism for sleek and compact design.
- Convenient 3D adjustment on hinge arm.
- Heavy duty product achieving 100,000 test cycles.

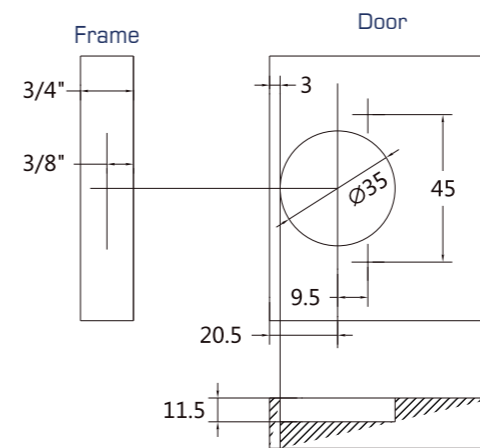
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

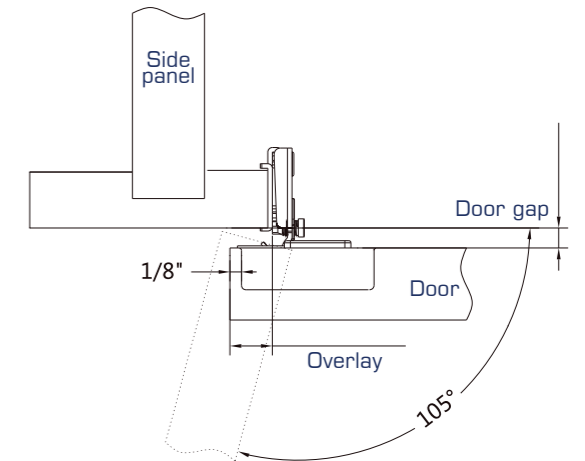
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
TP - Pair of Hinges with Screws in Sealed Bag

Full Overlay
Code: HDT210C

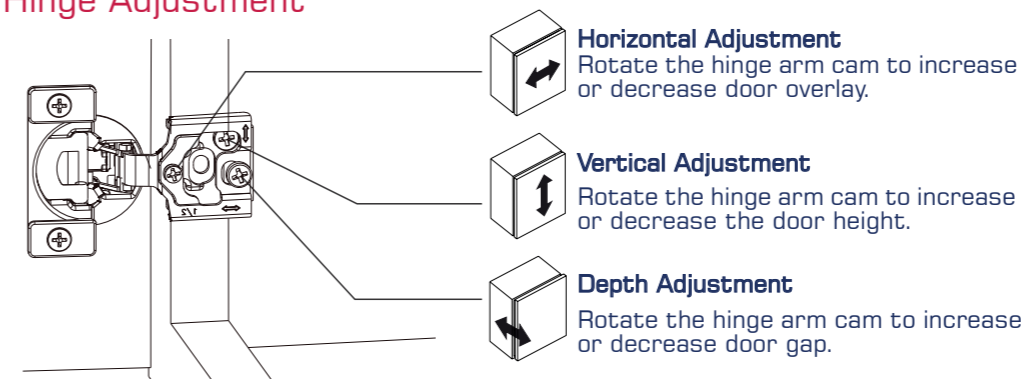
Boring Pattern



Dimensions



Hinge Adjustment



Note: The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

HM SERIES

HM Series 100° Short Arm Soft Closing Concealed Hinge for Face Frame Cabinets 3/8"



Specification

Opening Angle	100°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	3.8 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

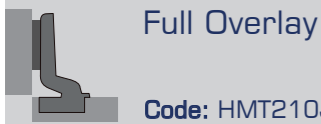
Notable Features

- Short arm design for improved esthetics on face frame cabinets.

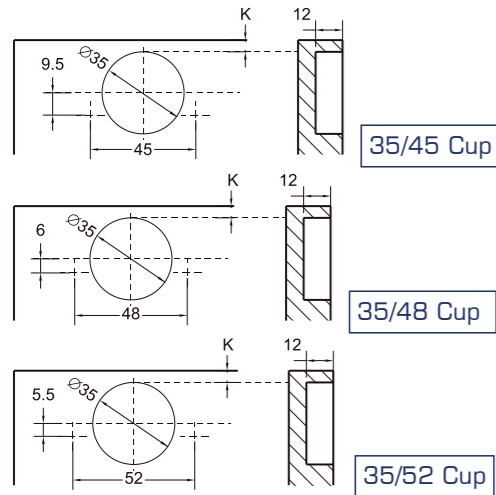
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

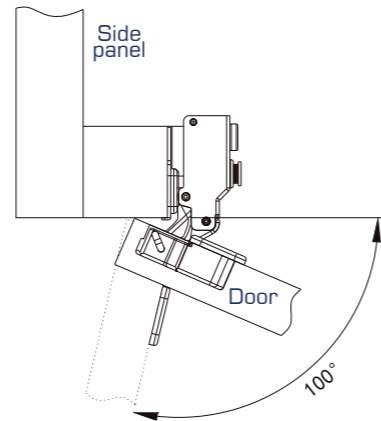
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
TP - Pair of Hinges with Screws in Sealed Bag



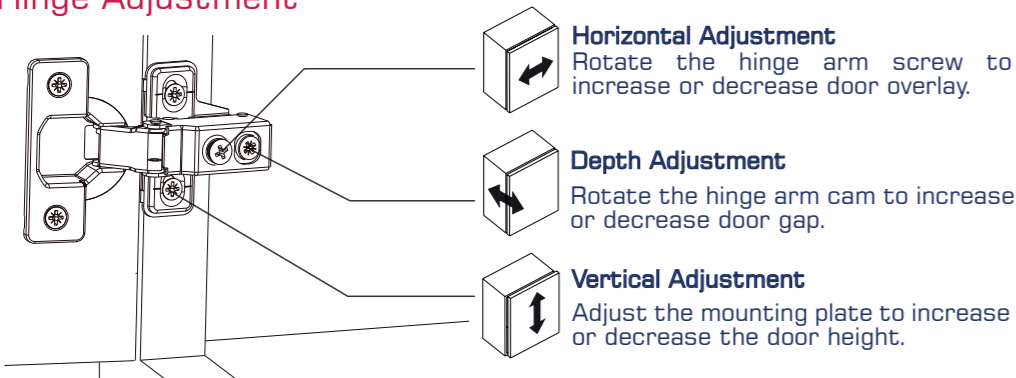
Boring Pattern



Dimensions



Hinge Adjustment



Note: The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

HM SERIES

HM Series 100° Short Arm Soft Closing Concealed Hinge for Face Frame Cabinets 1/2"



Specification

Opening Angle	100°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	3.8 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- Short arm design for improved esthetics on face frame cabinets.

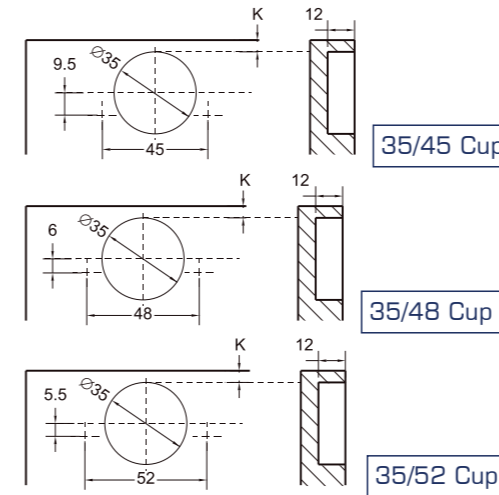
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

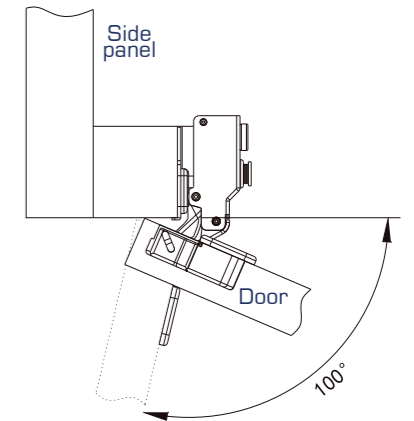
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
TP - Pair of Hinges with Screws in Sealed Bag



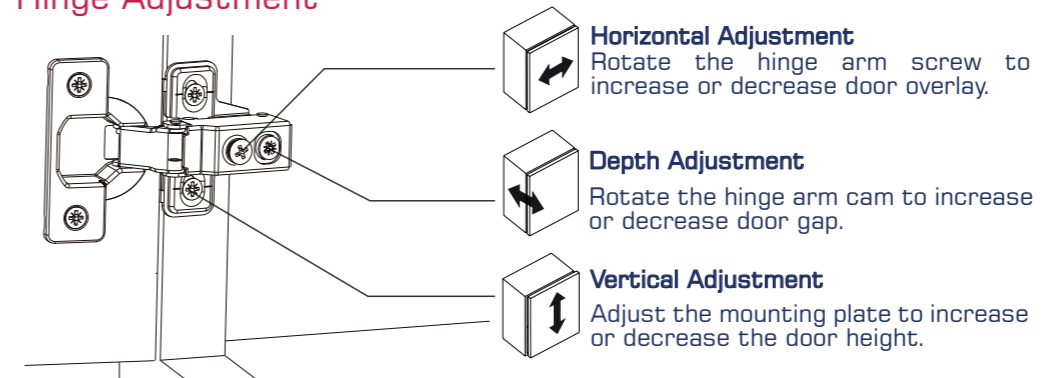
Boring Pattern



Dimensions



Hinge Adjustment



Note: The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

HM SERIES

HM Series 100° Short Arm Soft Closing Concealed Hinge for Face Frame Cabinets 5/8"



Specification

Opening Angle	100°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	3.8 mm
Depth Adjustment Range	3 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

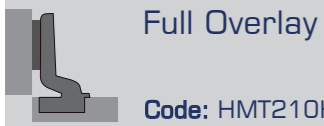
Notable Features

- Short arm design for improved esthetics on face frame cabinets.

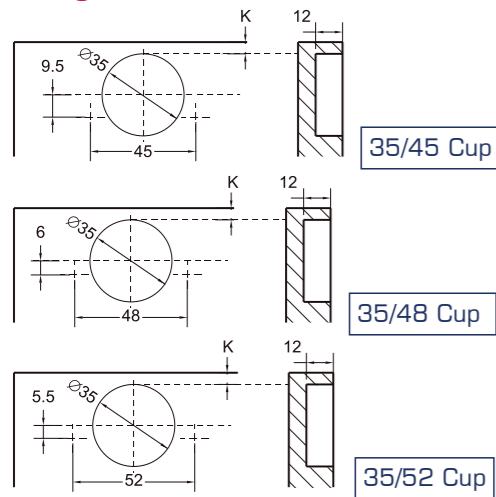
Cup Installation

Screw-on		Press-in	
Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5
Euro Screws	S4	10 mm Dowels	K6

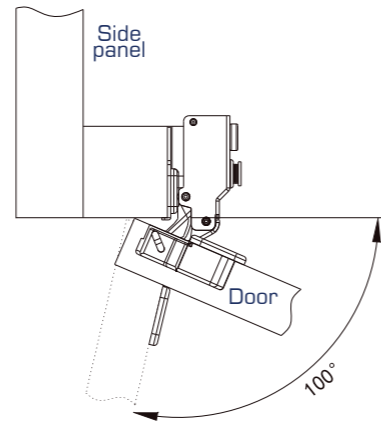
Additional Options: PP - Individual Hinge with Screws in Sealed Bag
TP - Pair of Hinges with Screws in Sealed Bag



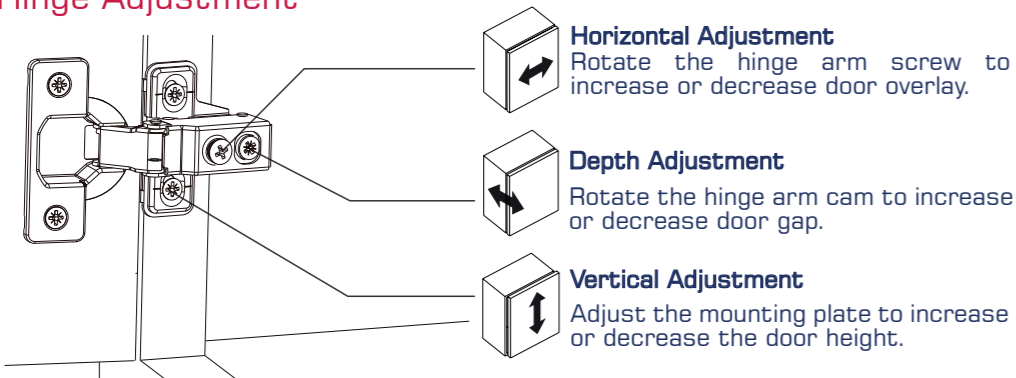
Boring Pattern



Dimensions



Hinge Adjustment



Note: The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



CM Series 165° Soft Closing Concealed Hinge (Cam Adjustable)

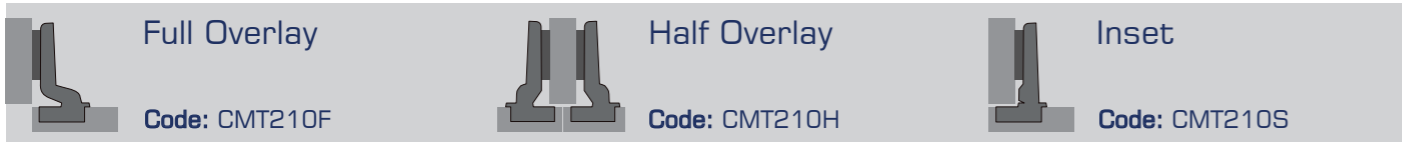


Specification

Opening Angle	165°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	9 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

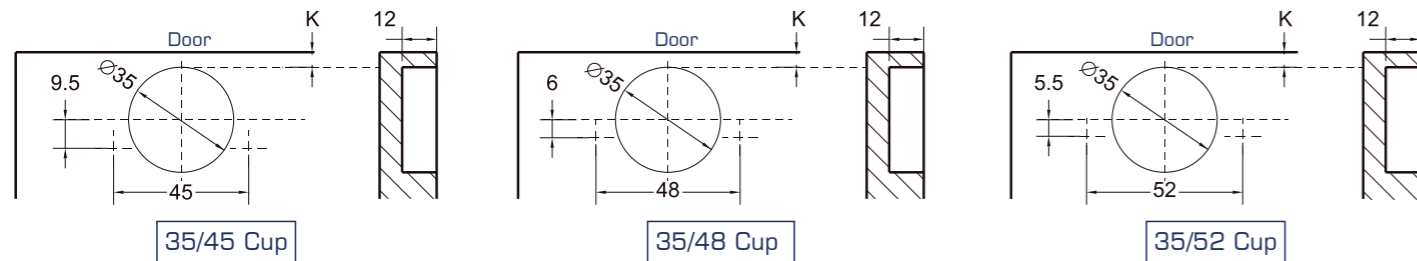
Notable Features

- Wide opening angle to take optimal advantage of available storage space.
- Soft closing function activates at very small angles.
- Heavy duty product.



Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 ND - No Damper
 NS - No Spring
 PO - Push-to-Open

Drilling For Cup

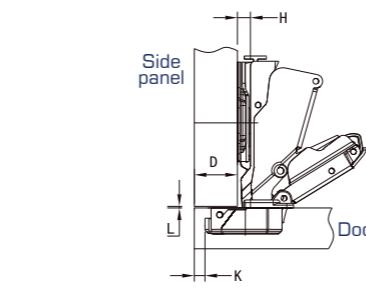


Cup Installation

Installation Method	Code	Installation Method	Code	Installation Method	Code
Screw-on	S2	Press-in	K5	LIGO	E5
Wood Screws		8 mm Dowels		8 mm Dowels	
		10 mm Dowels	K6	10 mm Dowels	E6

Overlay Table

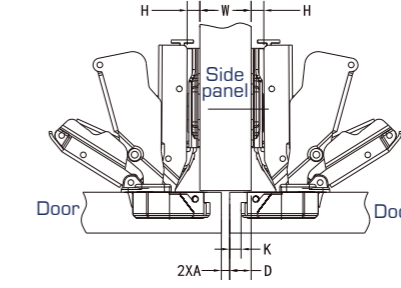
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

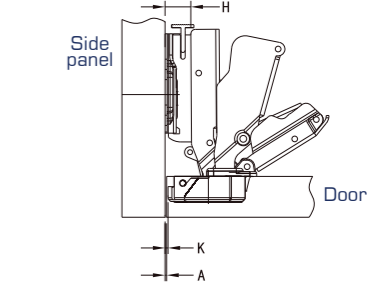
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

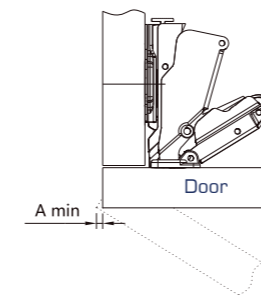
Inset



$$H = 0 + K + A$$

A \ K	3	4	5	6	7
2	-1	-2	-3	-4	-5
4	1	0	-1	-2	-3

Minimum Reveal Table

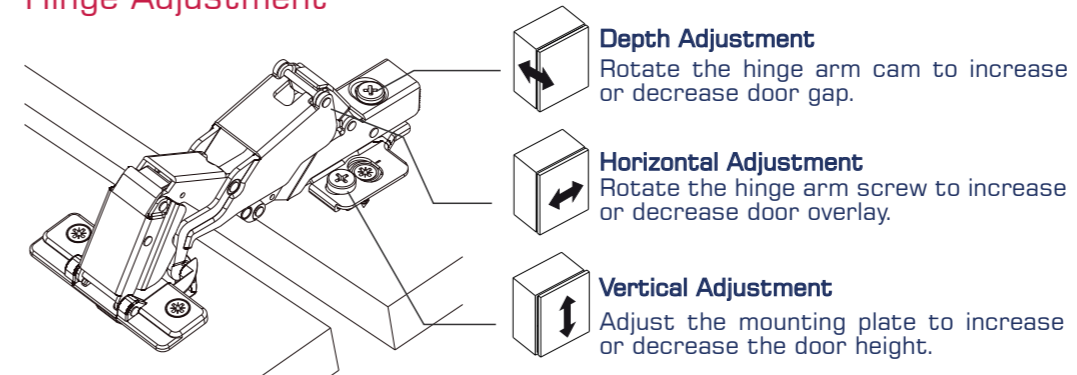


A \ T \ K	14	15	16	17	18	19	20	21	22	23	24	25	26
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.6	2.1	2.7
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	1.4	2.0	2.5
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	1.2	1.8	2.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.2
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.5	2.0

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN

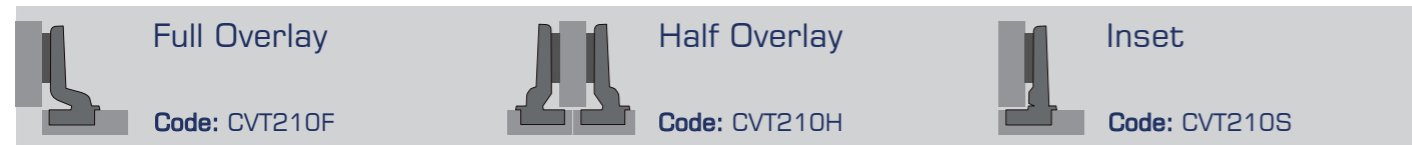


Specification

Opening Angle	155°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 26 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	6 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

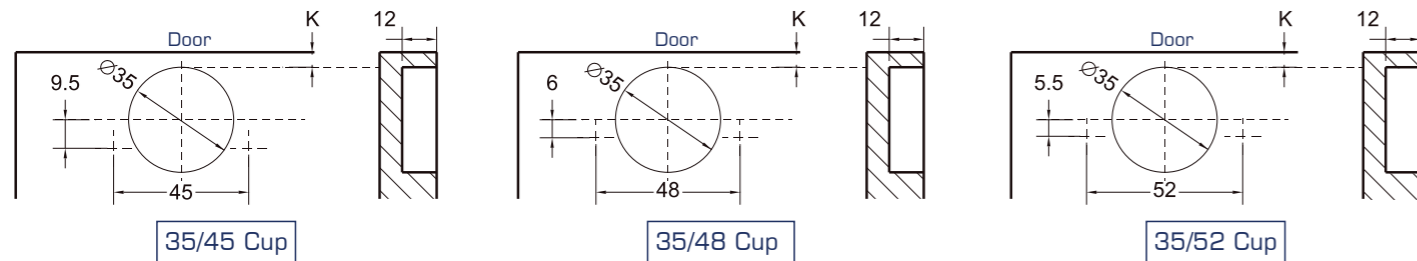
Notable Features

- Wide opening angle to take optimal advantage of available storage space.
- Zero protrusion: When opened at 90°, the door does not protrude to block drawers or baskets from opening.
- Heavy duty product.



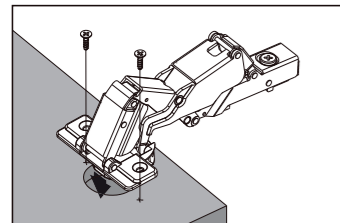
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag

Drilling For Cup



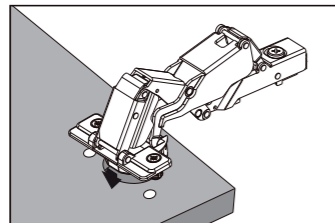
Cup Installation

Screw-on



Installation Method Code
Wood Screws S2

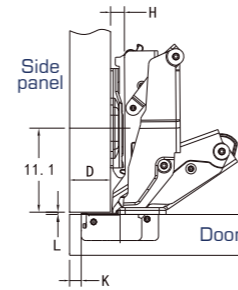
Press-in



Installation Method Code
8 mm Dowels K5
10 mm Dowels K6

Overlay Table

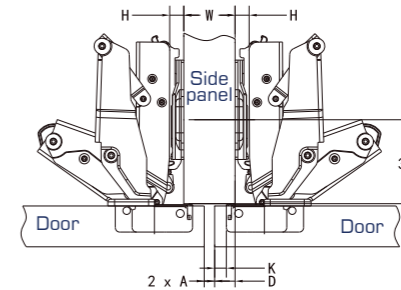
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

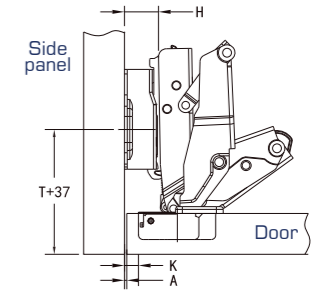
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

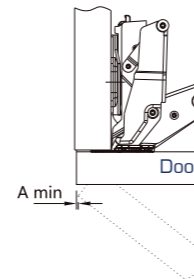
Inset



$$H = 5 + K + A$$

A \ K	3	4	5	6	7
9	1	0	-1	-2	-3

Minimum Reveal Table



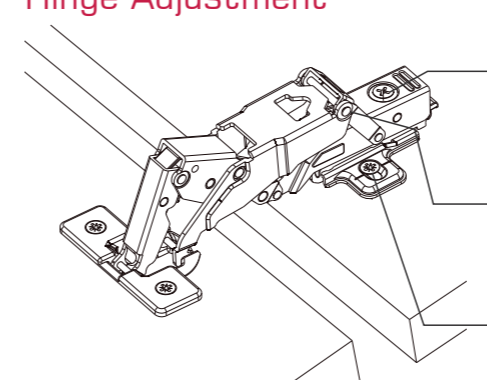
A \ T \ K	14	15	16	17	18	19	20	21	22
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:

The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:

The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN

CZ Series 125° Soft Closing Concealed Hinge (Cam Adjustable)



Specification

Opening Angle	125°
Function	Soft Close
Plate Type	Clip On
Cup Depth	12.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	16 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

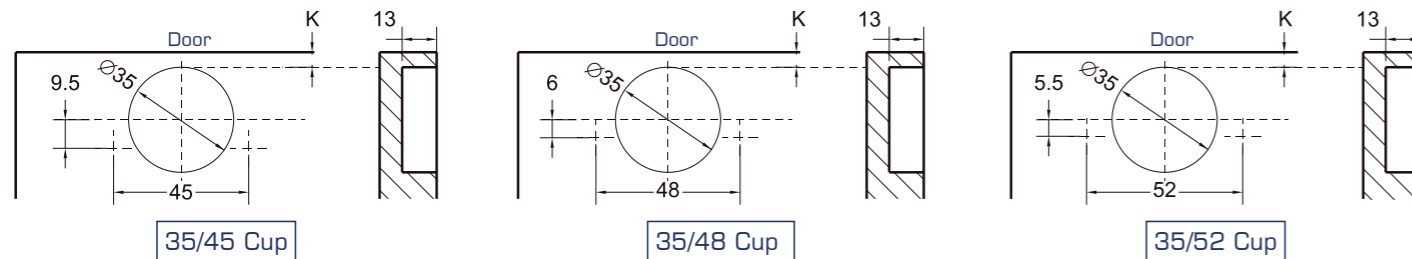
Notable Features

- Wide opening angle to take optimal advantage of available storage space.

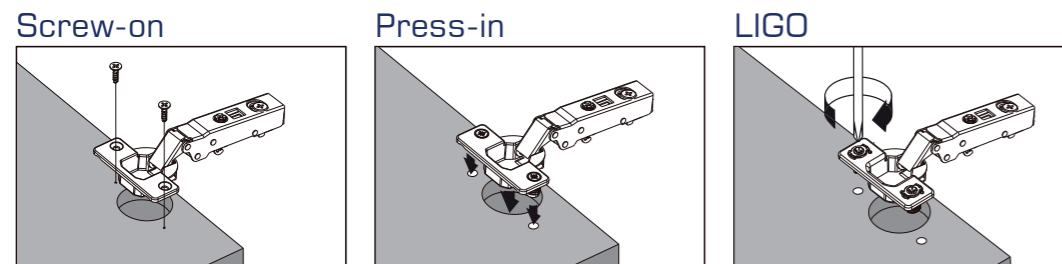


Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



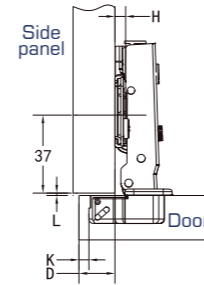
Cup Installation



Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6

Overlay Table

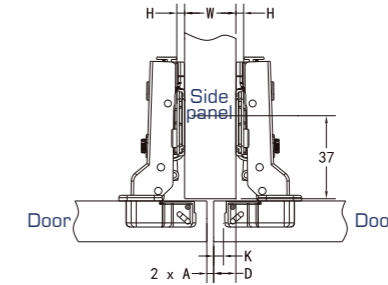
Full Overlay



$H = 14 + K - D$

D \ K	3	4	5	6	7
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

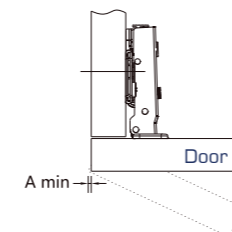
Half Overlay



$H = 4 + K - D$

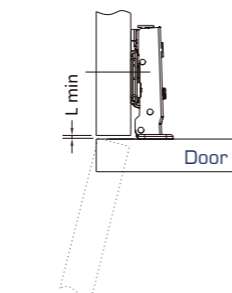
D \ K	3	4	5	6	7
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

Minimum Reveal Table



A \ T \ K	16	17	18	19	20	21	22
3	0.9	1.2	1.7	2.2	2.6	3.0	3.4
4	0.8	1.2	1.6	2.1	2.5	2.9	3.3
5	0.7	1.1	1.6	2.0	2.4	2.8	3.2
6	0.6	1.0	1.5	1.9	2.3	2.7	3.1
7	0.5	0.9	1.4	1.8	2.2	2.6	3.1

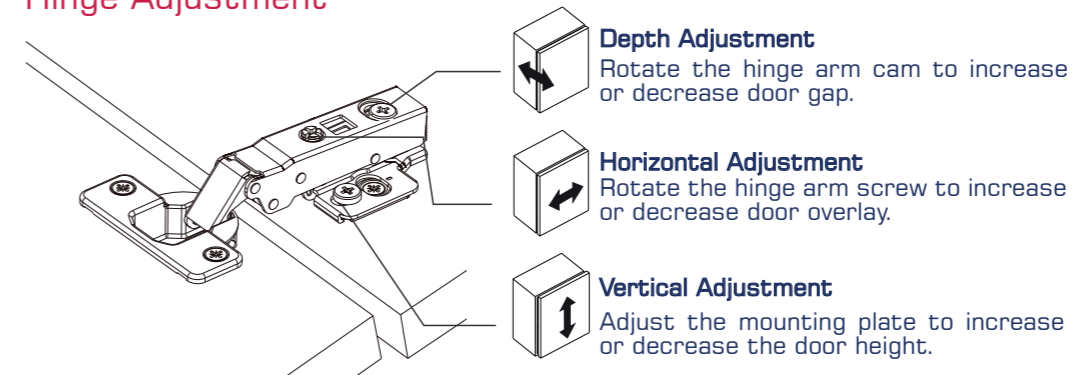
K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel



L \ T \ K	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.3	1.9
4	1.0	1.0	1.0	1.1	1.6	2.1	2.7
5	1.0	1.0	1.4	1.9	2.4	3.0	3.5
6	1.0	1.6	2.2	2.7	3.3	3.8	4.4
7	1.9	2.5	3.0	3.6	4.1	4.7	5.2

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

HW Series 135° Blind Corner Regular Concealed Hinge (Cam Adjustable)



Specification

Opening Angle	135°
Function	Auto Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

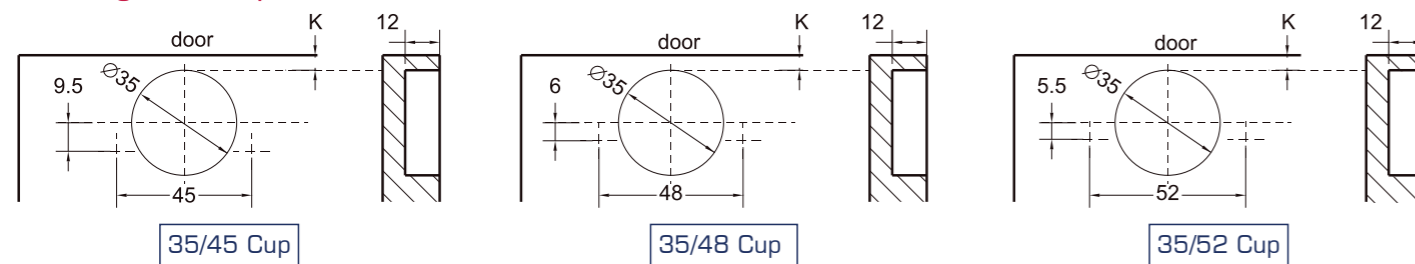
Notable Features

- Specially designed for blind corners applications at a 135° angle (Lazy Suzan).

Full Overlay
Code: HWT210L

Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
ND - No Damper

Drilling For Cup



Cup Installation

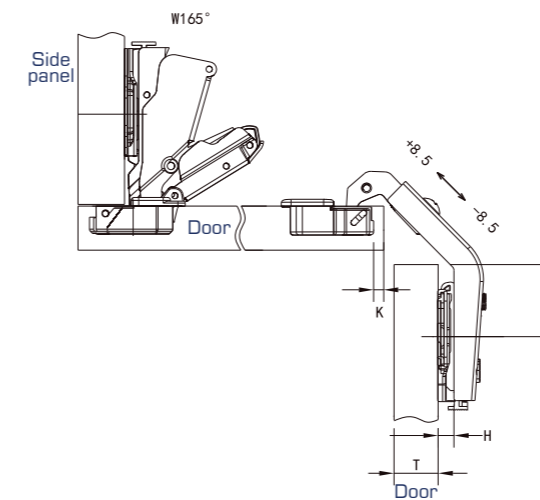
Installation Method	Code	Installation Method	Code	Installation Method	Code
Screw-on		Press-in		LIGO	
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6

Application



Overlay Table

Full Overlay

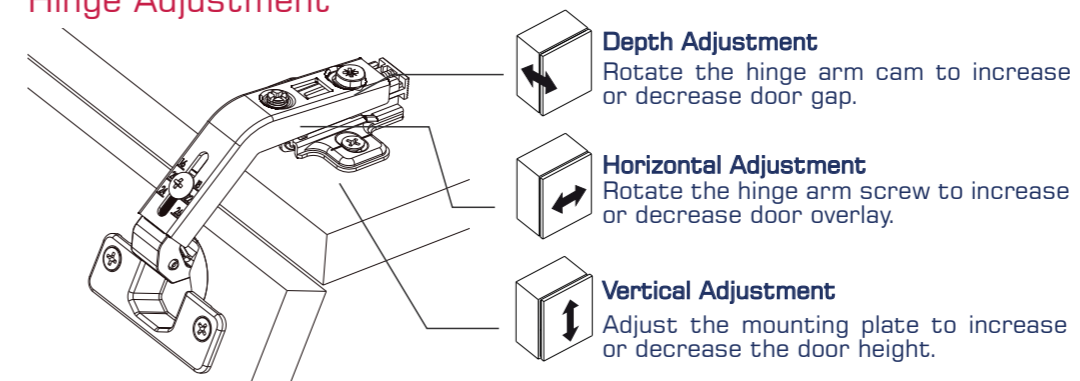


K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

	Door Thickness < 18 mm	22 mm > Door Thickness > 18 mm
D		
H	2 mm	0 mm
X	37 mm	37 mm

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN

HW Series 135° Slide-on Blind Corner Regular Concealed Hinge



Specification

Opening Angle	135°
Function	Auto Close
Plate Type	Slide On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

Notable Features

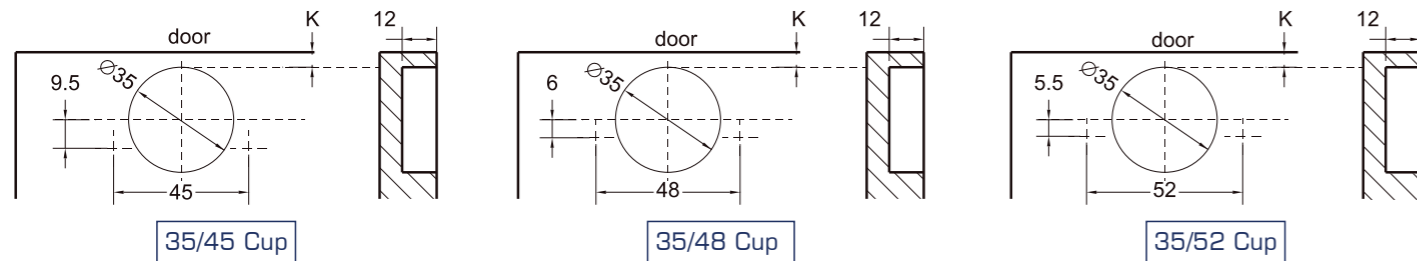
- Specially designed for blind corners applications at a 135° angle (Lazy Suzan).

Full Overlay

Code: HWW110L

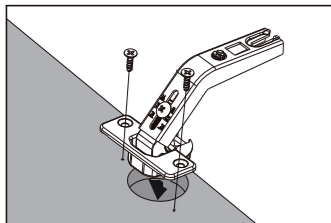
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



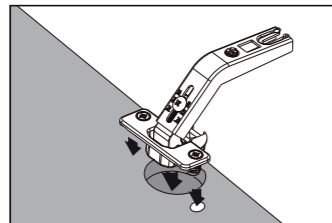
Cup Installation

Screw-on



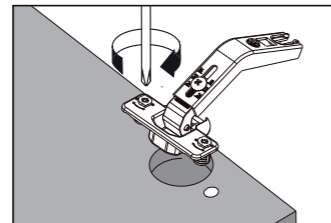
Installation Method	Code
Wood Screws	S2
Euro Screws	S4

Press-in



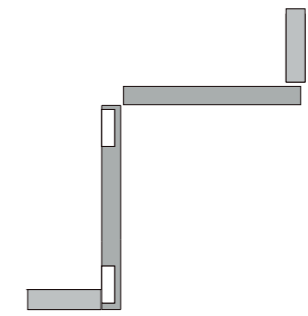
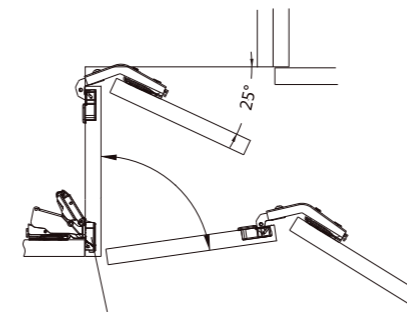
Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

LIGO



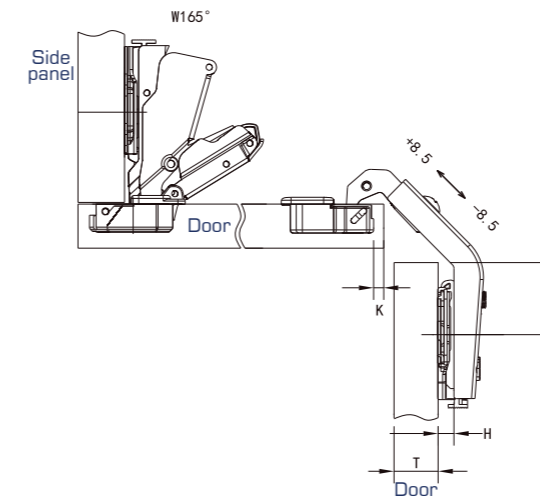
Installation Method	Code
8 mm Dowels	E5
10 mm Dowels	E6

Application



Overlay Table

Full Overlay

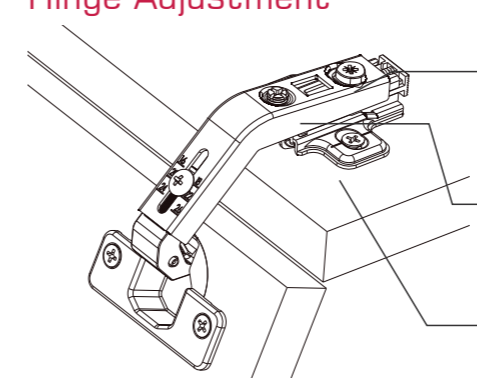


K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

D	Door Thickness < 18 mm	22 mm > Door Thickness > 18 mm
H	2 mm	0 mm
X	37 mm	37 mm

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: RT RF

HS Series 30° Blind Corner Soft Closing Concealed Hinge (Cam Adjustable)



Specification

Opening Angle	30°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

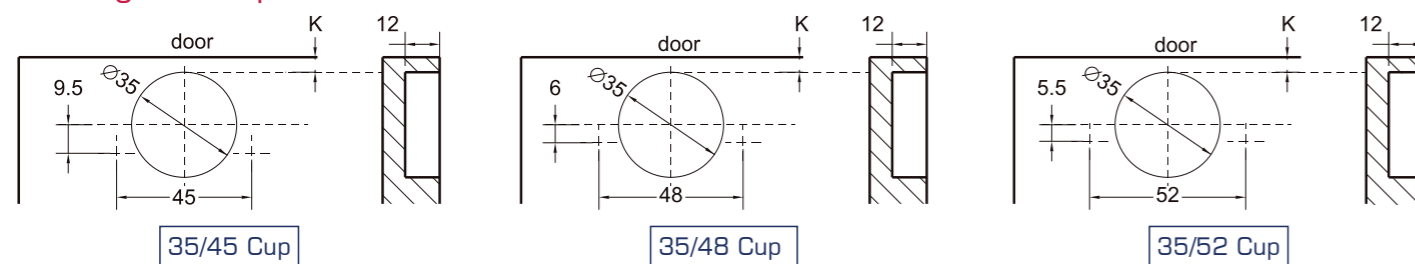
Notable Features

- Specially designed for blind corners applications at a 135° angle (Lazy Suzan).

Full Overlay
Code: HST210T

Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
ND - No Damper
PO - Push-to-Open

Drilling For Cup



Cup Installation

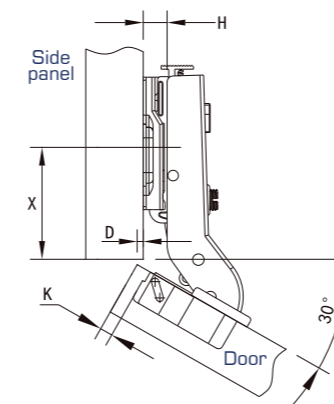
Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6

Application



Overlay Table

Full Overlay

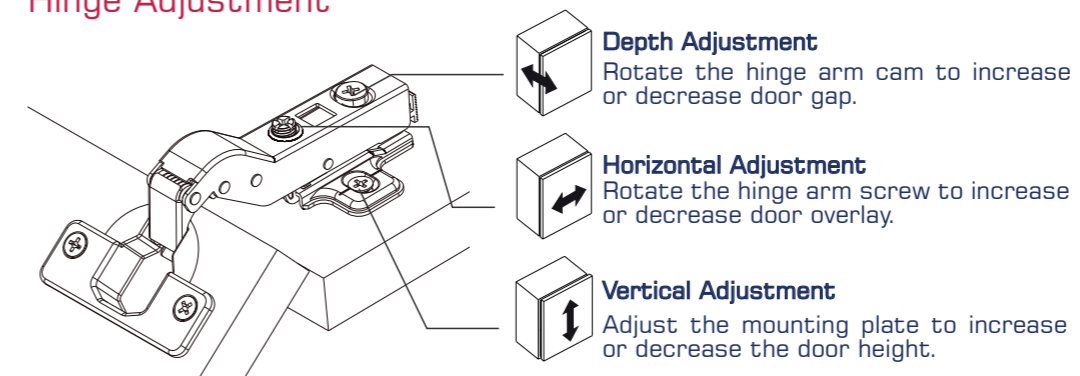


K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

X \ D \ K	4	5	6	7				
0	37	3	36	4	35	5	34	6
2	37	1	36	2	35	3	34	4
4	37	-1	36	0	35	1	34	2

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN

HS Series 45° Blind Corner Soft Closing Concealed Hinge (Cam Adjustable)



Specification

Opening Angle	45°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

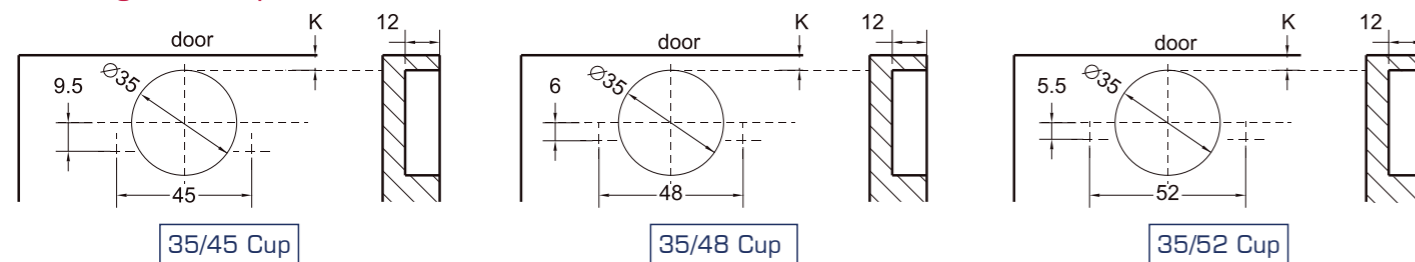
Notable Features

- Specially designed for blind corners applications at a 135° angle (Lazy Suzan).

Full Overlay
Code: HST210F

Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
ND - No Damper
PO - Push-to-Open

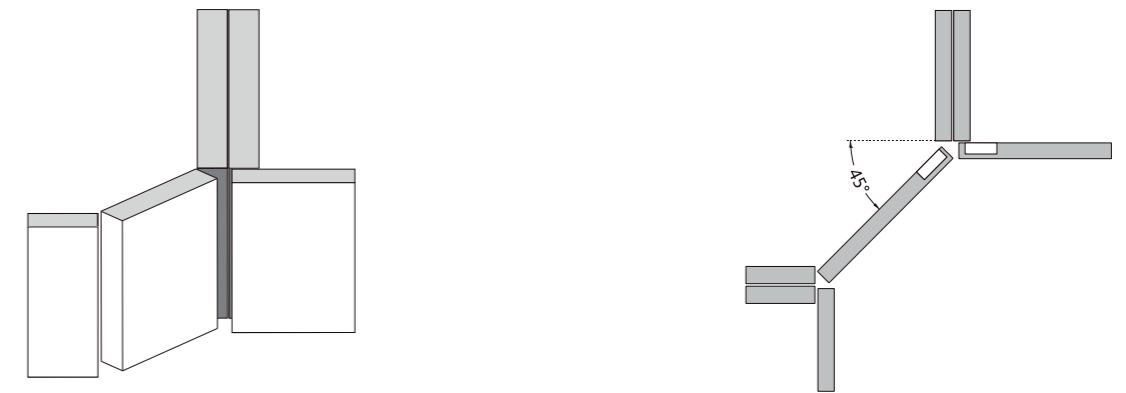
Drilling For Cup



Cup Installation

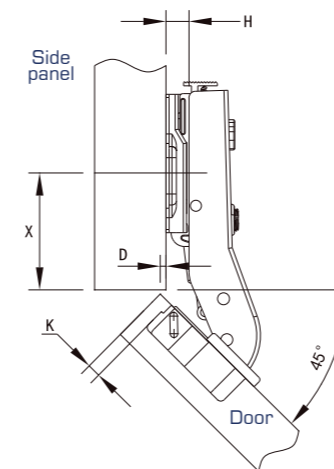
Installation Method	Code	Installation Method	Code	Installation Method	Code
Screw-on		Press-in		LIGO	
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6

Application



Overlay Table

Full Overlay



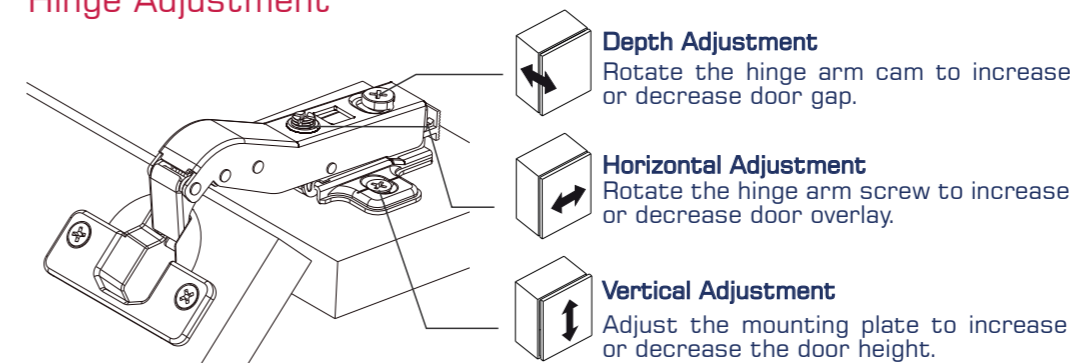
K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:

The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

X \ D \ K	4	5	6	7				
0	37	3	36	4	35	5	34	6
2	37	1	36	2	35	3	34	4
4	37	-1	36	0	35	1	34	2

Hinge Adjustment



Note:

The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN

HS Series 90° Blind Corner Soft Closing Concealed Hinge (Cam Adjustable)



Specification

Opening Angle	90°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

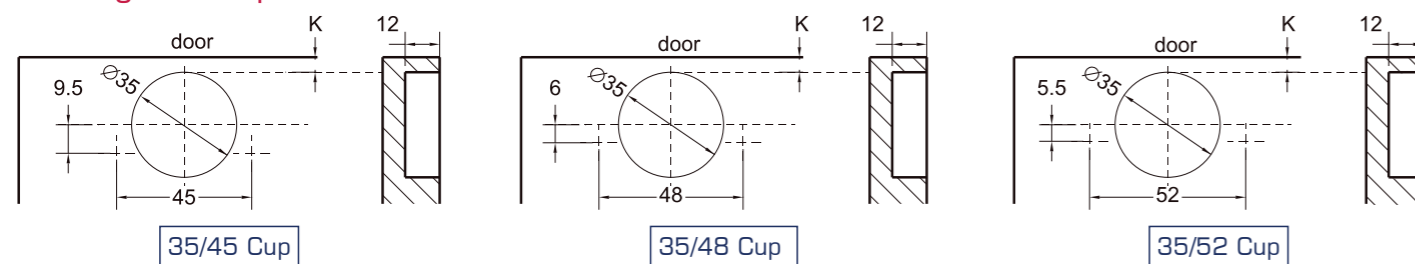
Notable Features

- Specially designed for blind corners applications at a 135° angle (Lazy Suzan).

Full Overlay
Code: HST210N

Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
ND - No Damper
PO - Push-to-Open

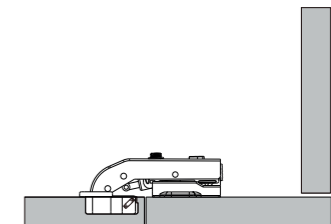
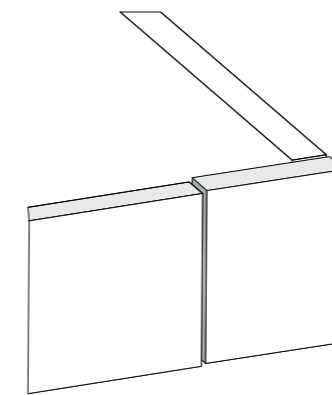
Drilling For Cup



Cup Installation

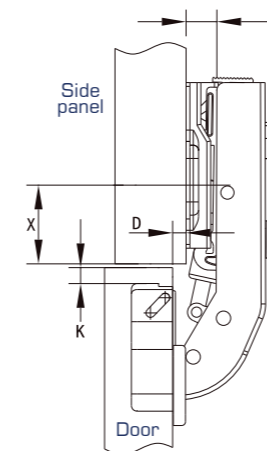
Installation Method	Code	Installation Method	Code	Installation Method	Code
Wood Screws	S2	8 mm Dowels	K5	8 mm Dowels	E5
Euro Screws	S4	10 mm Dowels	K6	10 mm Dowels	E6

Application



Overlay Table

Full Overlay



K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

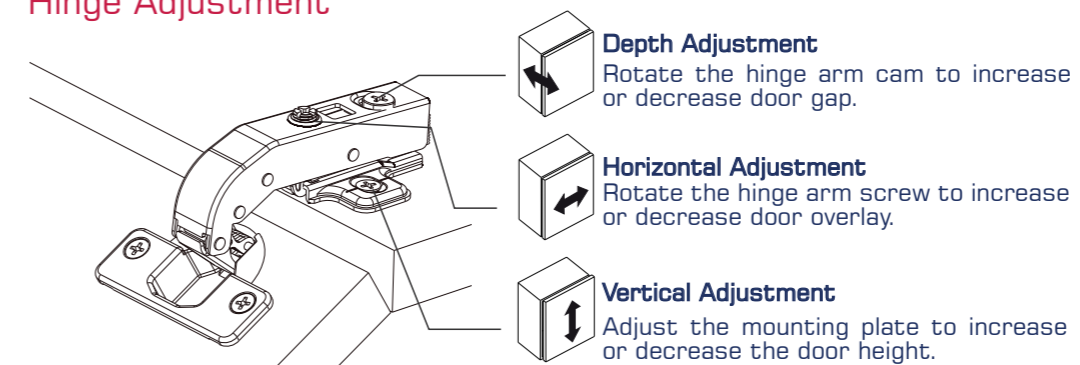
Note:

The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

X \ D \ K	4	5
0	20	3
2	20	1
4	20	-1

Remark: Can only use clip-on 2-hole plates H = 0/2/4

Hinge Adjustment



Note:

The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN



Specification

Opening Angle	-30°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

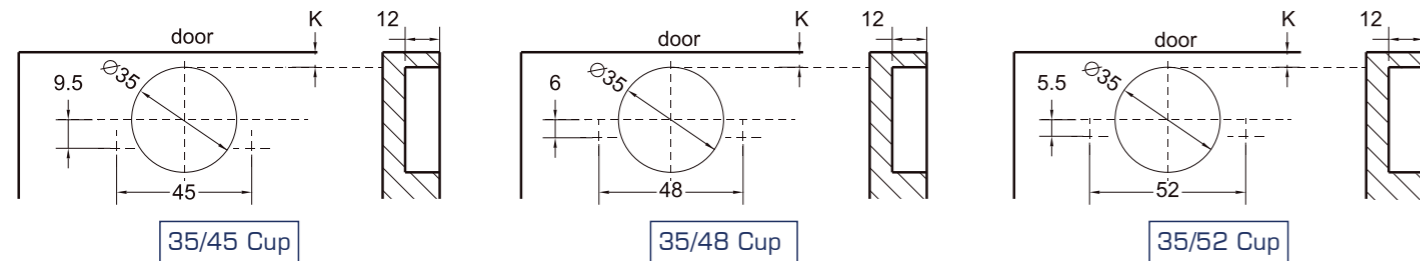
- Specially designed for blind corners applications at a 135° angle (Lazy Suzan).

Full Overlay

Code: HTT210T

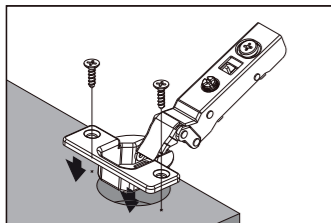
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



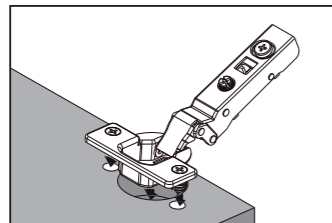
Cup Installation

Screw-on



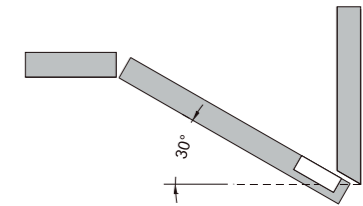
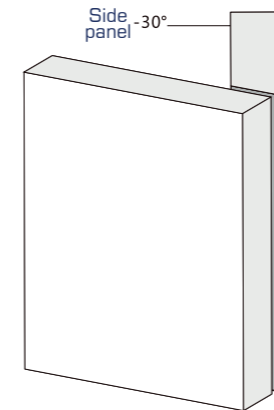
Installation Method	Code
Wood Screws	S2
Euro Screws	S4

Press-in



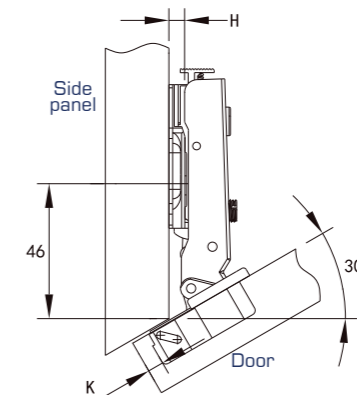
Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Application



Overlay Table

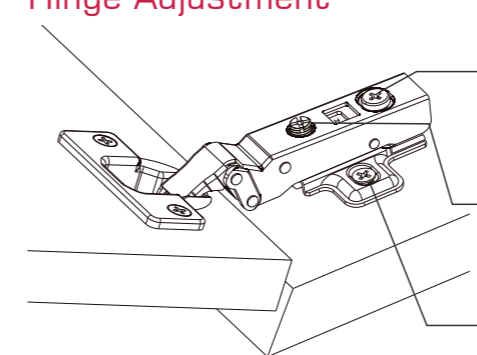
Full Overlay



K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN

HT Series -45° Blind Corner Soft Closing Concealed Hinge (Cam Adjustable)



Specification

Opening Angle	-45°
Function	Soft Close
Plate Type	Clip On
Cup Depth	11.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	14 mm - 22 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	5 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

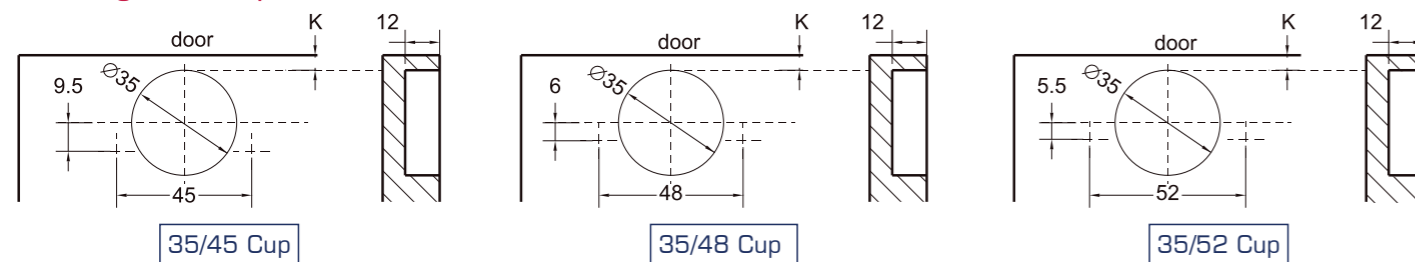
Notable Features

- Specially designed for blind corners applications at a 135° angle (Lazy Suzan).



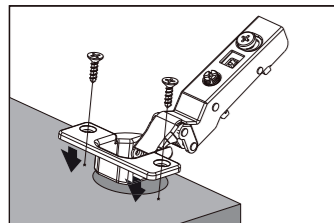
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



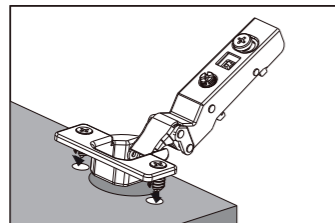
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

Press-in



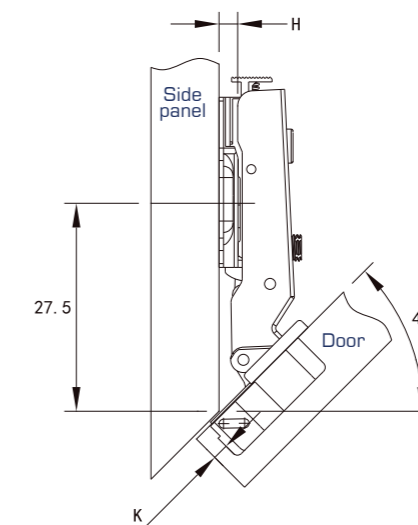
Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Application



Overlay Table

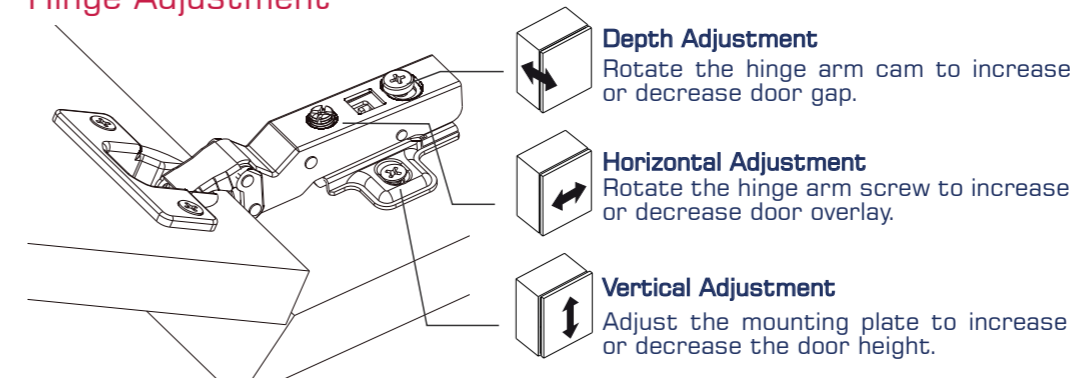
Full Overlay



K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN

MQ Series 95° Mini Soft Closing Concealed Hinge (Cam Adjustable)

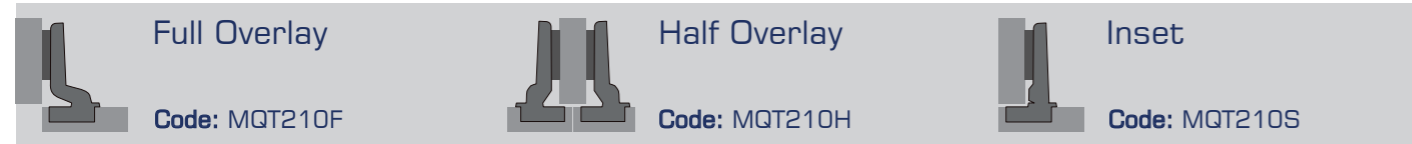


Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	9.6 mm
Cup Diameter	26 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	12 mm - 18 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

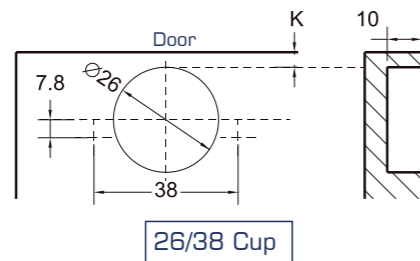
Notable Features

- Compact design.



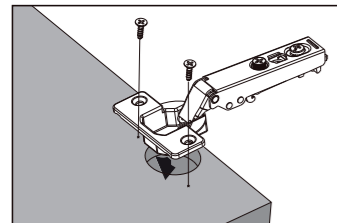
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



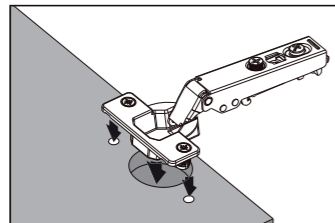
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

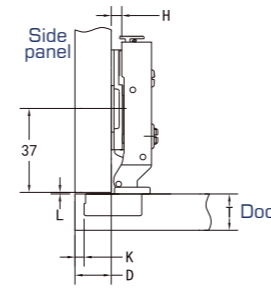
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

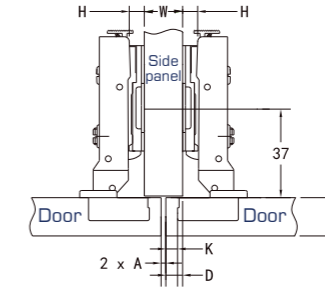
Full Overlay



$$H = 11 + K - D$$

D \ K	3	4	5	6	7
0	14	15	16	17	18
2	12	13	14	15	16
4	10	11	12	13	14

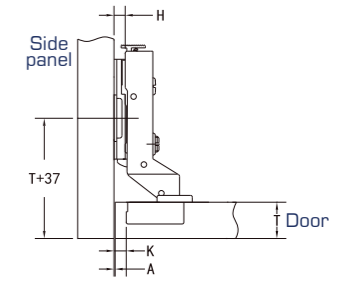
Half Overlay



$$H = 2 + K - D$$

D \ K	3	4	5	6	7
0	5	6	7	8	9
2	3	4	5	6	7
4	1	2	3	4	5

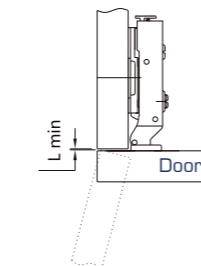
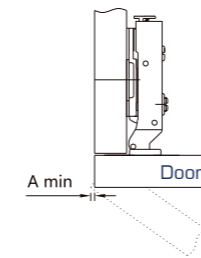
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



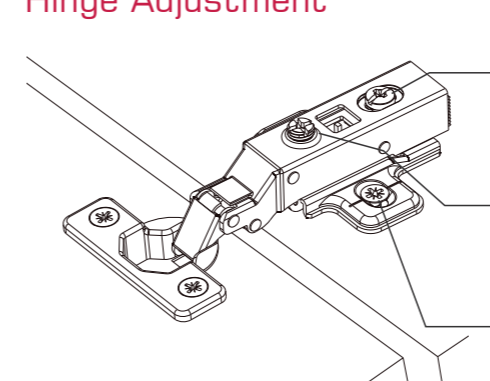
A \ K	12	13	14	15	16	17	18
3	0.0	0.0	0.1	0.6	1.2	1.7	2.2
4	0.0	0.0	0.0	0.5	1.0	1.5	2.1
5	0.0	0.0	0.0	0.3	0.9	1.4	1.9
6	0.0	0.0	0.0	0.2	0.7	1.2	1.8
7	0.0	0.0	0.0	0.0	0.5	1.1	1.6

L \ K	12	13	14	15	16	17	18
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.1	1.2	1.3	1.4	1.5	1.6
7	2.0	2.1	2.2	2.3	2.4	2.5	2.6

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

MQ Series 95° Mini Soft Closing Concealed Hinge

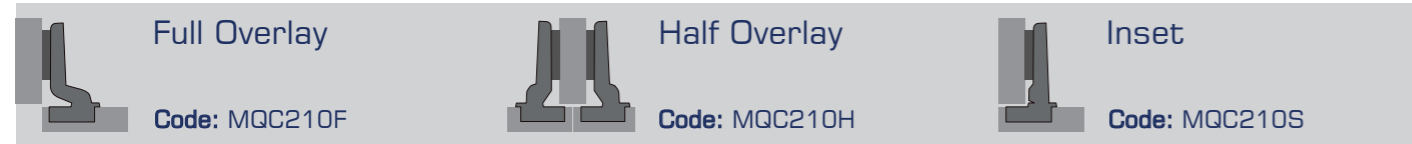


Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	9.6 mm
Cup Diameter	26 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	12 mm - 18 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

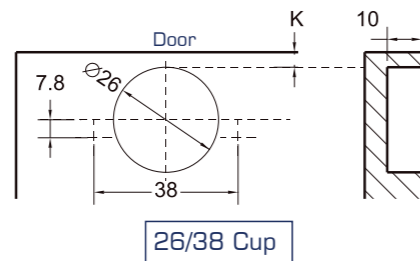
Notable Features

- Compact design.



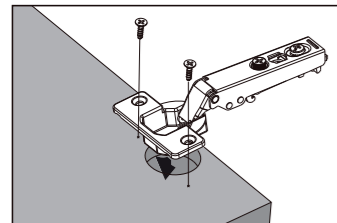
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



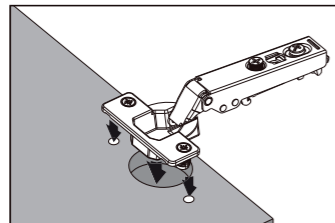
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

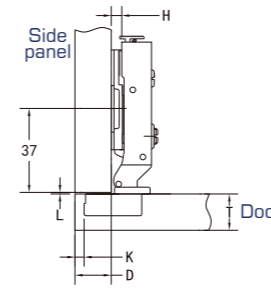
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

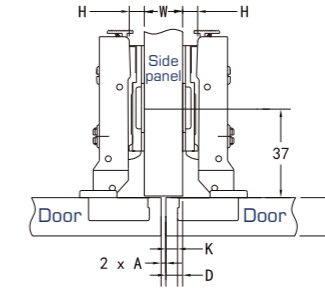
Full Overlay



$$H = 11 + K - D$$

D \ K	3	4	5	6	7
0	14	15	16	17	18
2	12	13	14	15	16
4	10	11	12	13	14

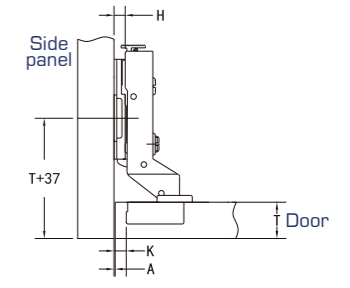
Half Overlay



$$H = 2 + K - D$$

D \ K	3	4	5	6	7
0	5	6	7	8	9
2	3	4	5	6	7
4	1	2	3	4	5

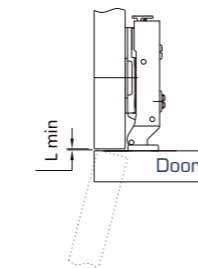
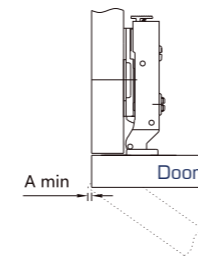
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



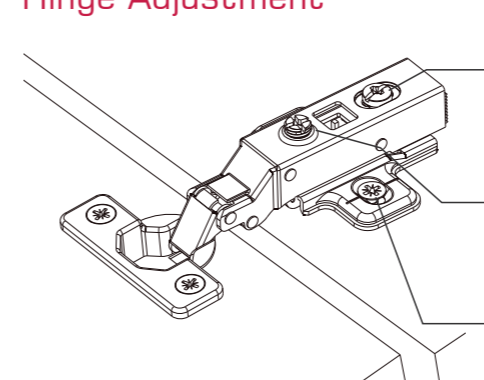
A \ K	12	13	14	15	16	17	18
3	0.0	0.0	0.1	0.6	1.2	1.7	2.2
4	0.0	0.0	0.0	0.5	1.0	1.5	2.1
5	0.0	0.0	0.0	0.3	0.9	1.4	1.9
6	0.0	0.0	0.0	0.2	0.7	1.2	1.8
7	0.0	0.0	0.0	0.0	0.5	1.1	1.6

L \ K	12	13	14	15	16	17	18
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.1	1.2	1.3	1.4	1.5	1.6
7	2.0	2.1	2.2	2.3	2.4	2.5	2.6

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

MQ Series 95° Mini Soft Closing Concealed Hinge with Fixed Plate

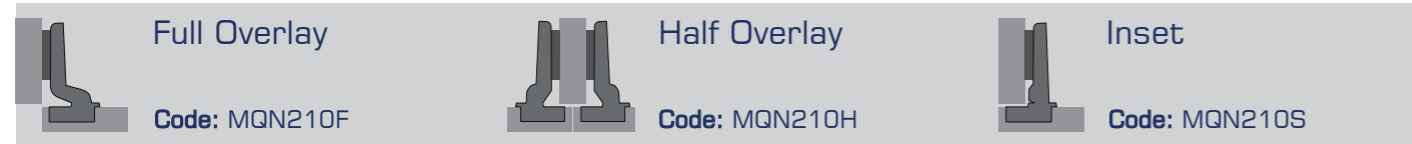


Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	9.6 mm
Cup Diameter	26 mm
Drilling Distance	3 mm - 7 mm
Door Thickness	12 mm - 18 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

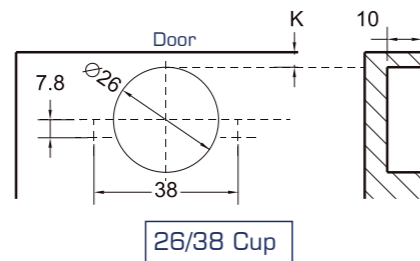
Notable Features

- Compact design.



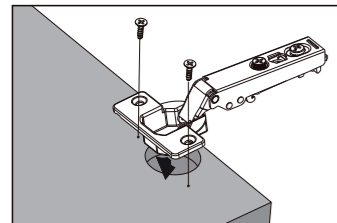
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



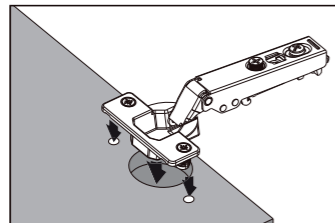
Cup Installation

Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

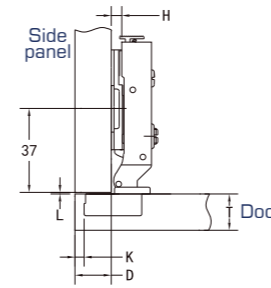
Press-in



Installation Method	Code
8 mm Dowels	K5
10 mm Dowels	K6

Overlay Table

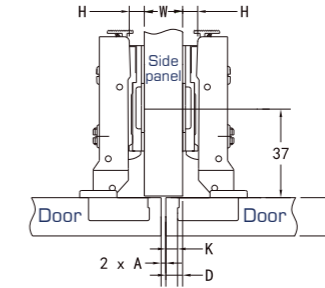
Full Overlay



$$H = 11 + K - D$$

D \ K	3	4	5	6	7
0	14	15	16	17	18
2	12	13	14	15	16
4	10	11	12	13	14

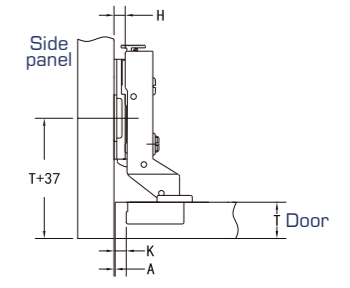
Half Overlay



$$H = 2 + K - D$$

D \ K	3	4	5	6	7
0	5	6	7	8	9
2	3	4	5	6	7
4	1	2	3	4	5

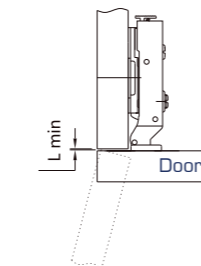
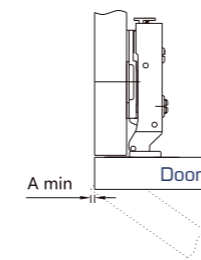
Inset



$$H = -4 + K + A$$

A \ K \ H	3	4	5	6	7
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



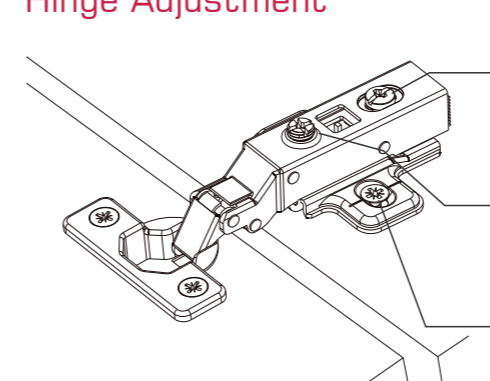
A \ K \ T	12	13	14	15	16	17	18
3	0.0	0.0	0.1	0.6	1.2	1.7	2.2
4	0.0	0.0	0.0	0.5	1.0	1.5	2.1
5	0.0	0.0	0.0	0.3	0.9	1.4	1.9
6	0.0	0.0	0.0	0.2	0.7	1.2	1.8
7	0.0	0.0	0.0	0.0	0.5	1.1	1.6

L \ K \ T	12	13	14	15	16	17	18
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.1	1.2	1.3	1.4	1.5	1.6
7	2.0	2.1	2.2	2.3	2.4	2.5	2.6

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.


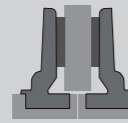



Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	12.5 mm
Cup Diameter	26 mm
Drilling Distance	3 mm - 5 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

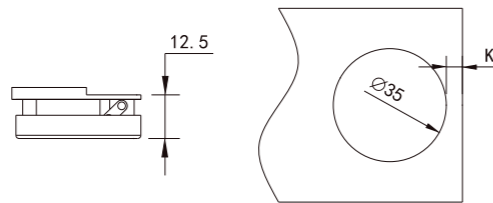
Notable Features

- Compact design.

 Full Overlay Code: MLT210F	 Half Overlay Code: MLT210H	 Inset Code: MLT210S
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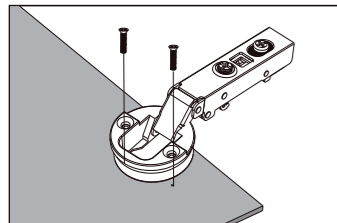
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



Cup Installation

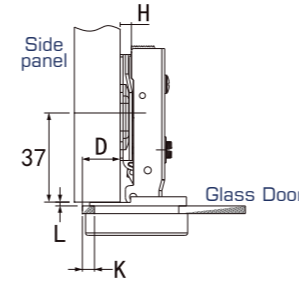
Screw-on



Installation Method Code
Wood Screws S2

Overlay Table

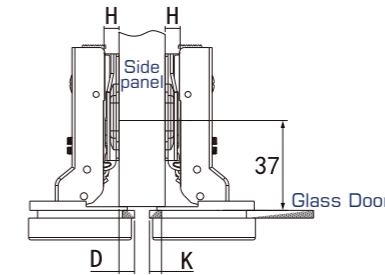
Full Overlay



$$H = 11 + K - D$$

D \ K	3	4	5	6
0	14	15	16	17
2	12	13	14	15
4	10	11	12	13

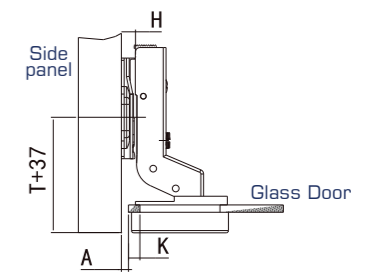
Half Overlay



$$H = 2 + K - D$$

D \ K	3	4	5	6
0	5	6	7	8
2	3	4	5	6
4	1	2	3	4

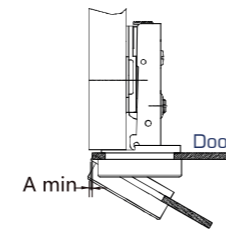
Inset



$$H = -4 + K + A$$

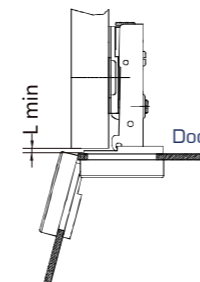
A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



A \ K	12	13	14	15	16	17	18
3	0.0	0.0	0.1	0.6	1.2	1.7	2.2
4	0.0	0.0	0.0	0.5	1.0	1.5	2.1
5	0.0	0.0	0.0	0.3	0.9	1.4	1.9
6	0.0	0.0	0.0	0.2	0.7	1.2	1.8

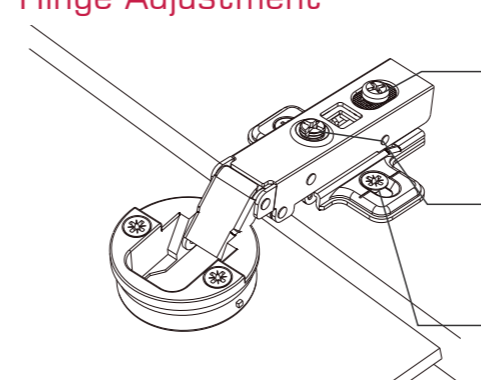
K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel



L \ T	12	13	14	15	16	17	18
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.1	1.2	1.3	1.4	1.5	1.6

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP


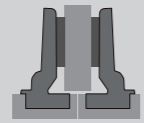



Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Clip On
Cup Depth	12.5 mm
Cup Diameter	26 mm
Drilling Distance	3 mm - 5 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

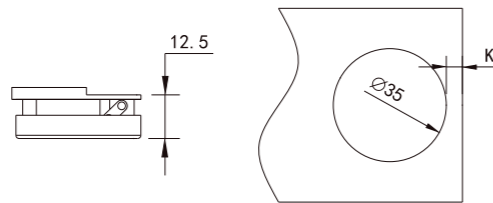
Notable Features

- Compact design.

 Full Overlay Code: MLC210F	 Half Overlay Code: MLC210H	 Inset Code: MLC210S
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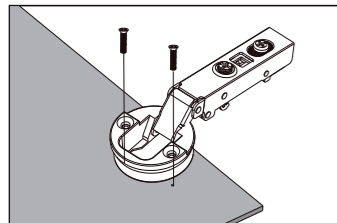
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



Cup Installation

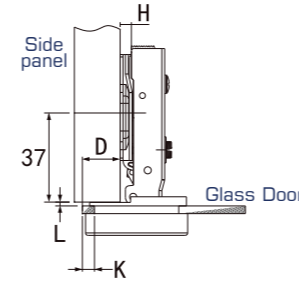
Screw-on



Installation Method Code
Wood Screws S2

Overlay Table

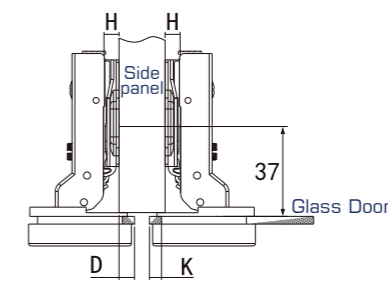
Full Overlay



$$H = 11 + K - D$$

D \ K	3	4	5	6
0	14	15	16	17
2	12	13	14	15
4	10	11	12	13

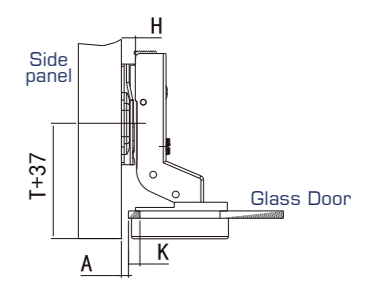
Half Overlay



$$H = 2 + K - D$$

D \ K	3	4	5	6
0	5	6	7	8
2	3	4	5	6
4	1	2	3	4

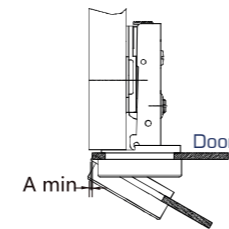
Inset



$$H = -4 + K + A$$

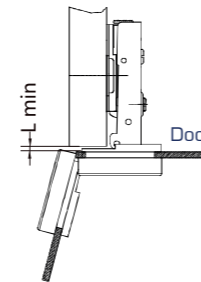
A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



A \ K \ T	12	13	14	15	16	17	18
3	0.0	0.0	0.1	0.6	1.2	1.7	2.2
4	0.0	0.0	0.0	0.5	1.0	1.5	2.1
5	0.0	0.0	0.0	0.3	0.9	1.4	1.9
6	0.0	0.0	0.0	0.2	0.7	1.2	1.8

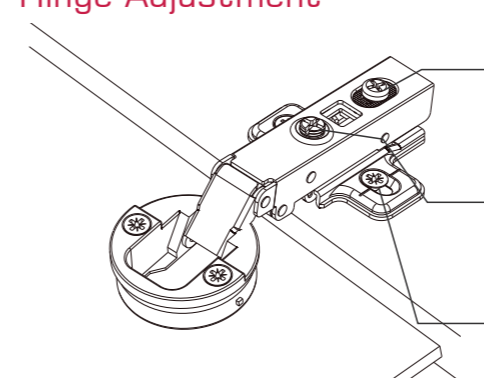
K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel



L \ K \ T	12	13	14	15	16	17	18
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.1	1.2	1.3	1.4	1.5	1.6

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

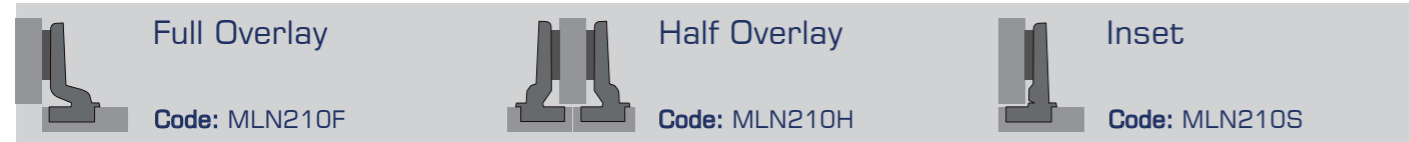


Specification

Opening Angle	95°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	12.5 mm
Cup Diameter	26 mm
Drilling Distance	3 mm - 5 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	100 Units per Carton

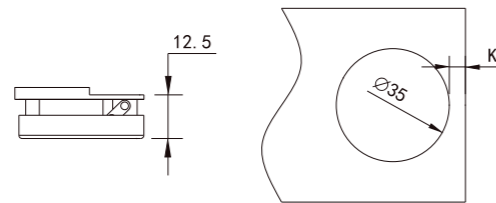
Notable Features

- Compact design.



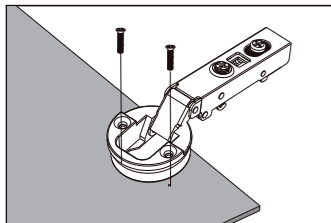
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



Cup Installation

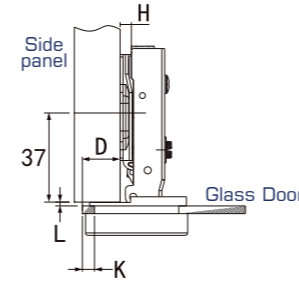
Screw-on



Installation Method	Code
Wood Screws	S2
Euro Screws	S4

Overlay Table

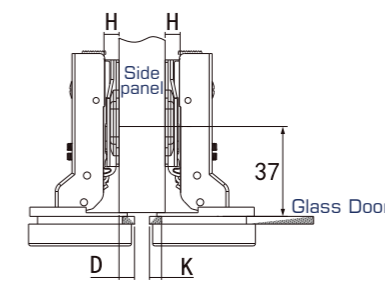
Full Overlay



$$H = 11 + K - D$$

D \ K	3	4	5	6
0	14	15	16	17
2	12	13	14	15
4	10	11	12	13

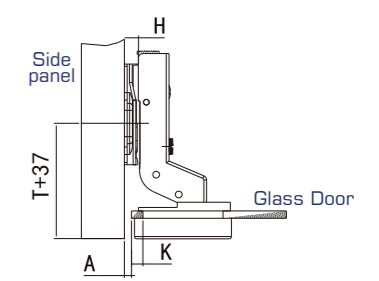
Half Overlay



$$H = 2 + K - D$$

D \ K	3	4	5	6
0	5	6	7	8
2	3	4	5	6
4	1	2	3	4

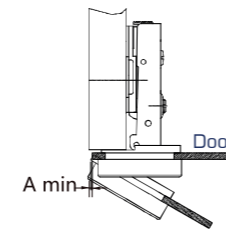
Inset



$$H = -4 + K + A$$

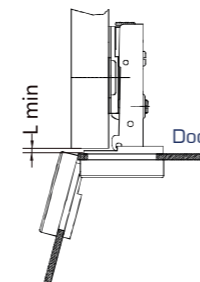
A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



A \ T	12	13	14	15	16	17	18
3	0.0	0.0	0.1	0.6	1.2	1.7	2.2
4	0.0	0.0	0.0	0.5	1.0	1.5	2.1
5	0.0	0.0	0.0	0.3	0.9	1.4	1.9
6	0.0	0.0	0.0	0.2	0.7	1.2	1.8

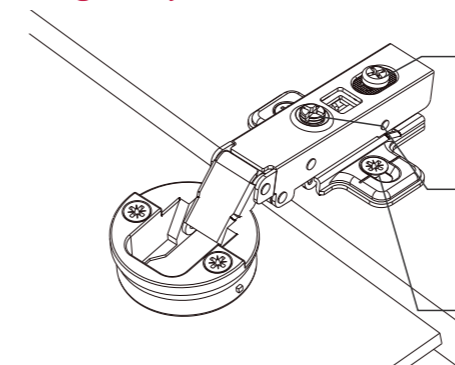
K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel



L \ T	12	13	14	15	16	17	18
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.1	1.2	1.3	1.4	1.5	1.6

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

GB Series 105° Two-way Regular Concealed Hinge for Glass Doors (Cam Adjustable)

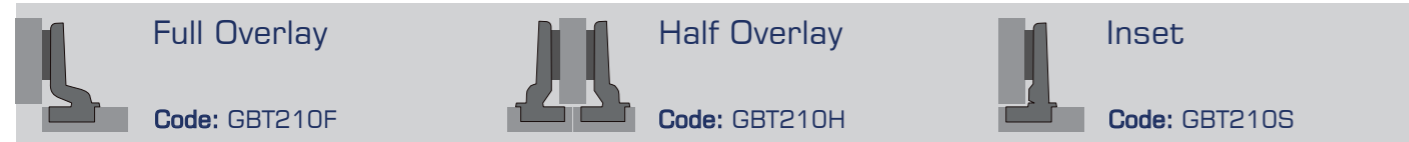


Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Clip On
Cup Depth	12.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 6 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	9 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

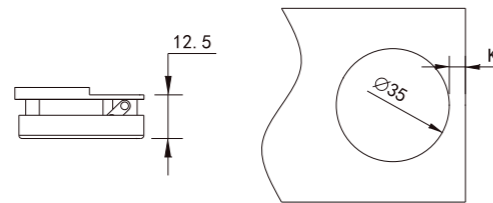
Notable Features

- Two-way hinge technology extending the service life of the hinge.



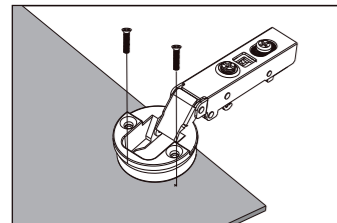
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

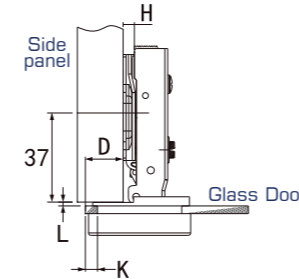
Screw-on



Installation Method Code
Wood Screws S2

Overlay Table

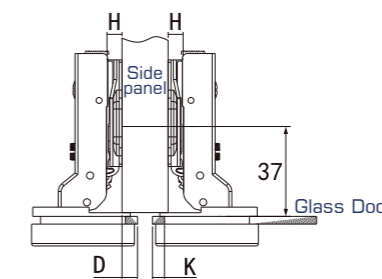
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6
0	17	18	19	20
2	15	16	17	18
4	13	14	15	16

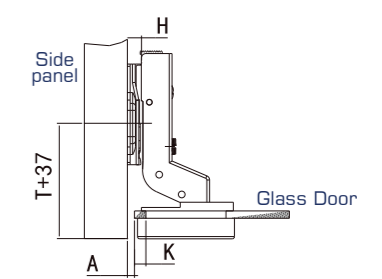
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6
0	7	8	9	10
2	5	6	7	8
4	3	4	5	6

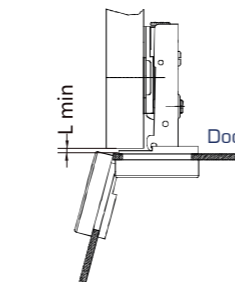
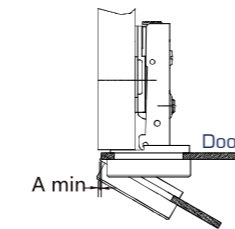
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



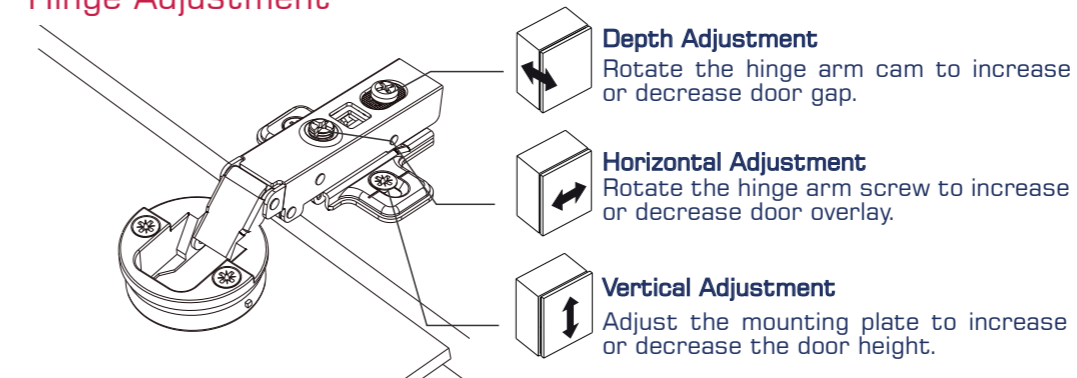
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

GB Series 105° Two-way Regular Concealed Hinge for Glass Doors

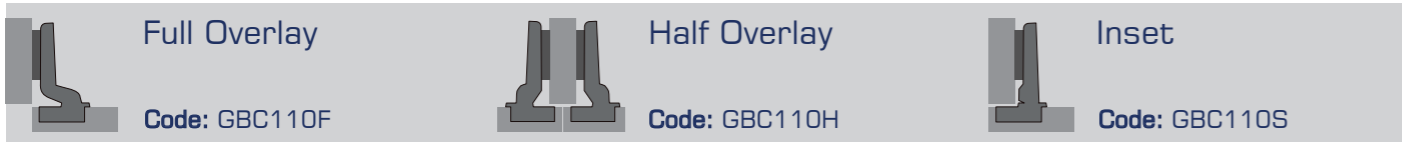


Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Clip On
Cup Depth	12.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 6 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

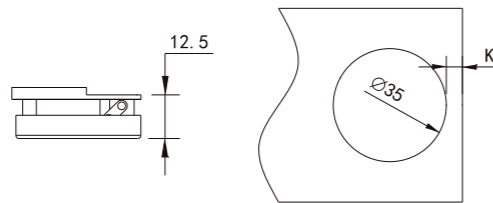
Notable Features

- Two-way hinge technology extending the service life of the hinge.



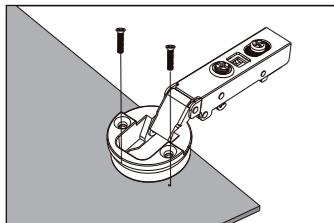
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

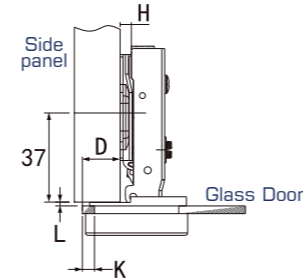
Screw-on



Installation Method Code
Wood Screws S2

Overlay Table

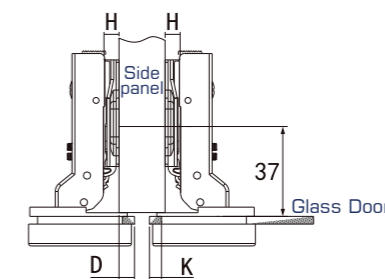
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6
0	17	18	19	20
2	15	16	17	18
4	13	14	15	16

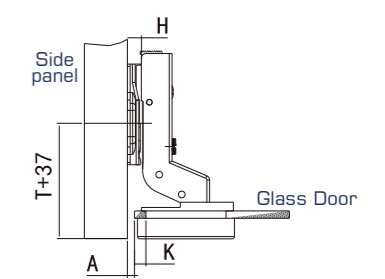
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6
0	7	8	9	10
2	5	6	7	8
4	3	4	5	6

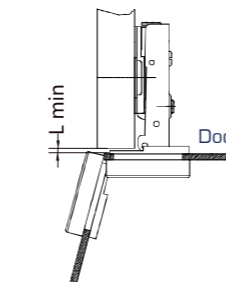
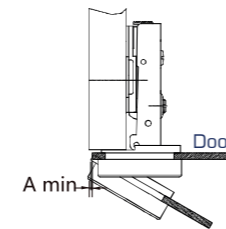
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



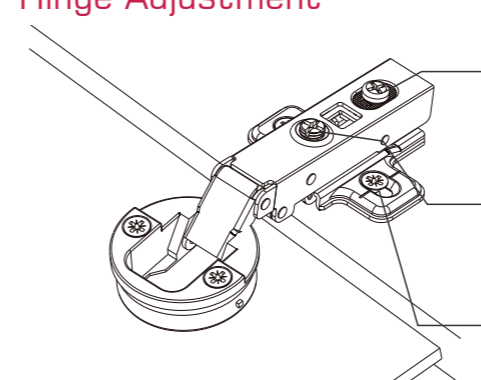
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0

K = Boring distance
T = Door thickness
A = Minimum gap (A) for door with a door edge radius
L = Gap between door and panel

Note:
The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	12.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 6 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

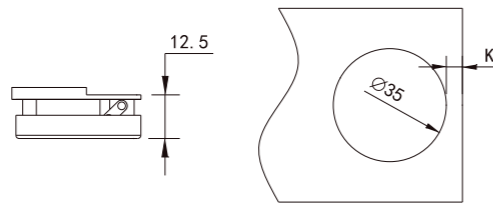
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.



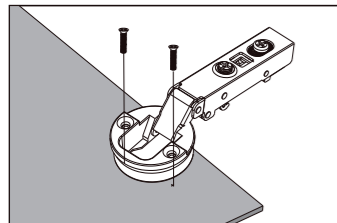
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



Cup Installation

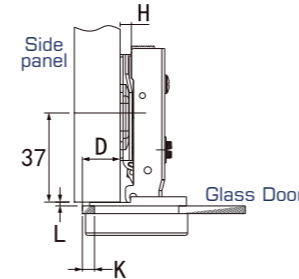
Screw-on



Installation Method Code
 Wood Screws S3

Overlay Table

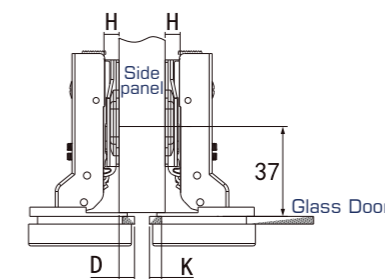
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6
0	17	18	19	20
2	15	16	17	18
4	13	14	15	16

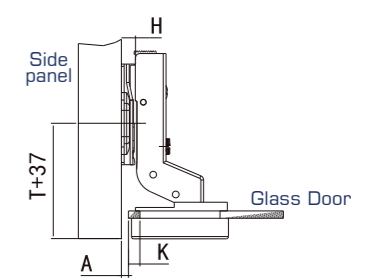
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6
0	7	8	9	10
2	5	6	7	8
4	3	4	5	6

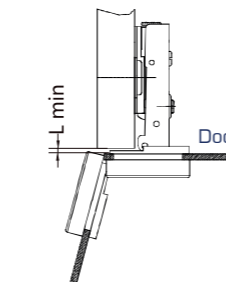
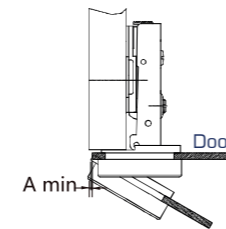
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



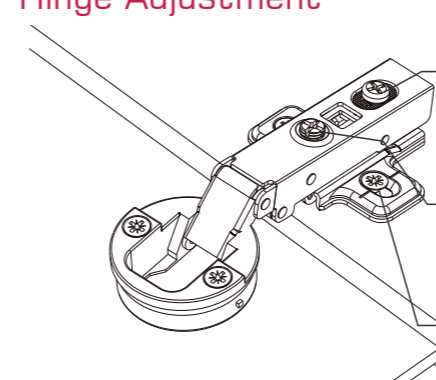
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
 Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
 Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
 Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	12.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 6 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

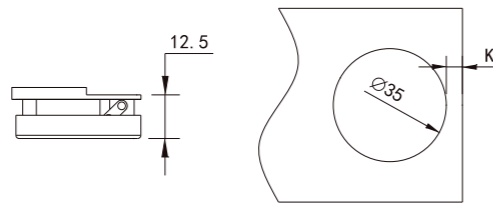
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.



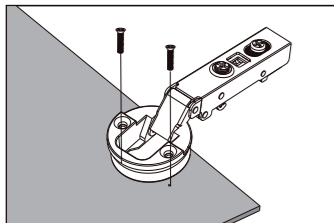
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



Cup Installation

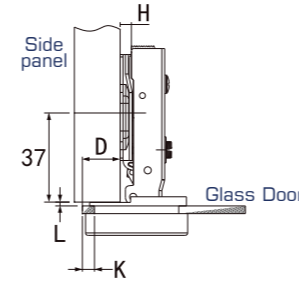
Screw-on



Installation Method Code
 Wood Screws S4

Overlay Table

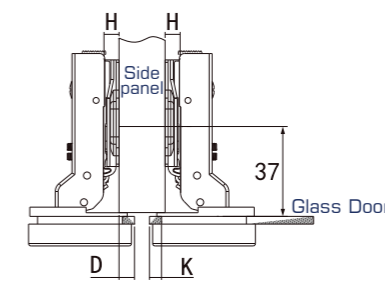
Full Overlay



$$H = 14 + K - D$$

D \ K	3	4	5	6
0	17	18	19	20
2	15	16	17	18
4	13	14	15	16

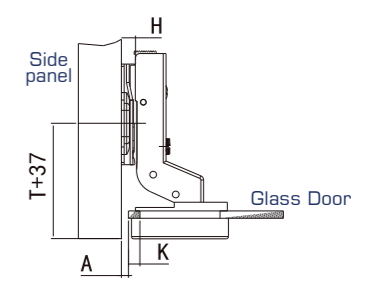
Half Overlay



$$H = 4 + K - D$$

D \ K	3	4	5	6
0	7	8	9	10
2	5	6	7	8
4	3	4	5	6

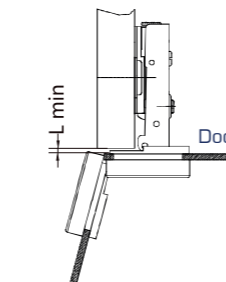
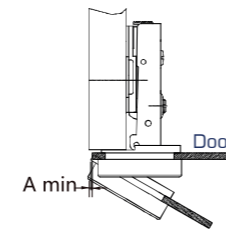
Inset



$$H = -4 + K + A$$

A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



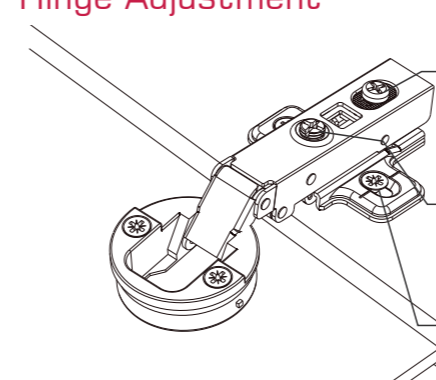
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	12.5 mm
Cup Diameter	35 mm
Drilling Distance	3 mm - 6 mm
Door Thickness	4 mm - 6 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

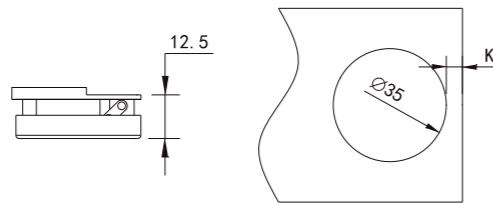
Notable Features

- Heavy duty product.
- 1Way+ technology extending the service life of the hinge.

 Full Overlay	 Half Overlay	 Inset
Code: GCN210F	Code: GCN210H	Code: GCN210S

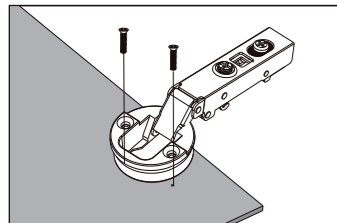
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag
 ND - No Damper

Drilling For Cup



Cup Installation

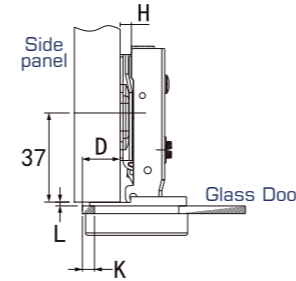
Screw-on



Installation Method Code
 Wood Screws S5

Overlay Table

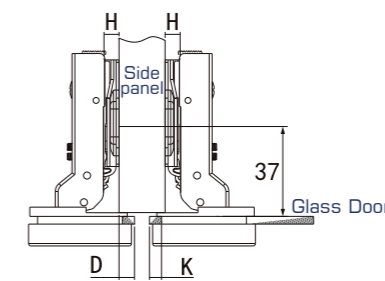
Full Overlay



$H = 14 + K - D$

D \ K	3	4	5	6
0	17	18	19	20
2	15	16	17	18
4	13	14	15	16

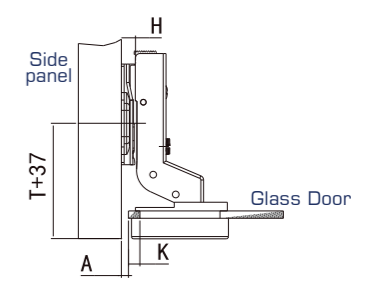
Half Overlay



$H = 4 + K - D$

D \ K	3	4	5	6
0	7	8	9	10
2	5	6	7	8
4	3	4	5	6

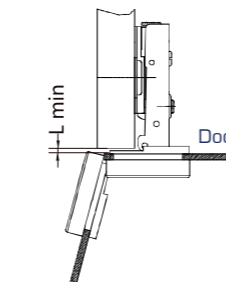
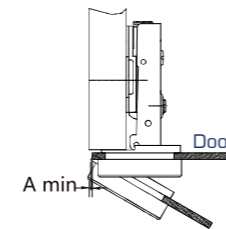
Inset



$H = -4 + K + A$

A \ K	3	4	5	6
0	1	0	-1	-2
2	3	2	1	0
4	5	4	3	2

Minimum Reveal Table



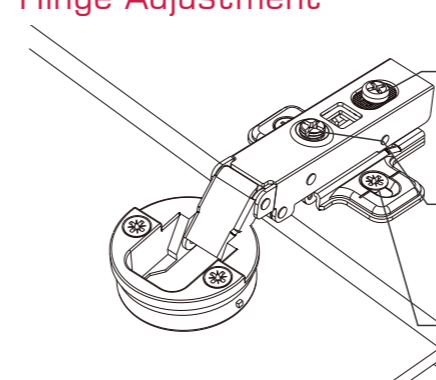
A \ K	14	15	16	17	18	19	20	21	22
3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6
4	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5
5	0.2	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.4
6	0.2	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4

L \ K	14	15	16	17	18	19	20	21	22
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
5	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.8	2.0
6	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0

K = Boring distance
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Move the hinge laterally to adjust door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	Aluminum Frame Die Cut
Cup Diameter	42/28 mm
Drilling Distance	Aluminum Frame Die Cut
Door Thickness	19 mm - 23 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

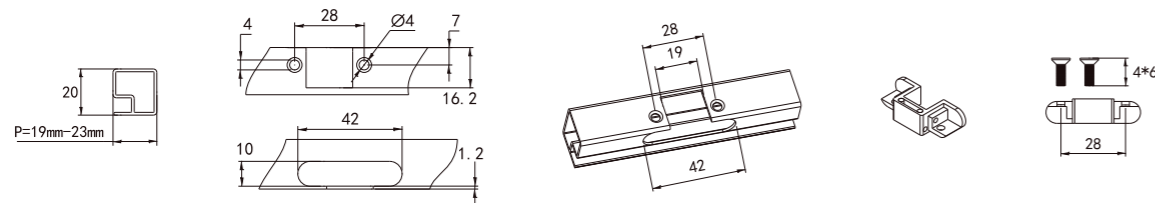
Notable Features

- Heavy duty product.
- Designed for thin aluminum frame.
- Flush installation for minimal effect on cabinet design.



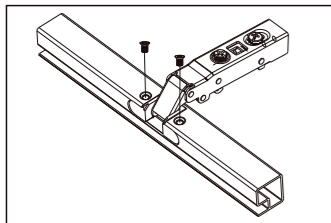
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

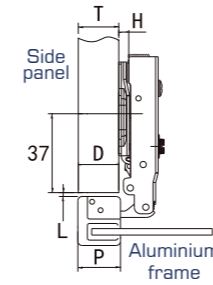
Screw-on



Installation Method Code
 Wood Screws S2

Overlay Table

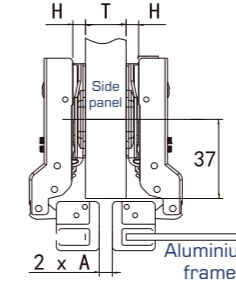
Full Overlay



$$H = -2 + P - D$$

D \ P	19	20	21	22	23
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

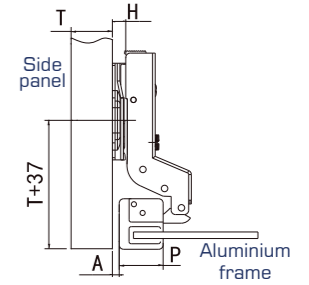
Half Overlay



$$H = 12 + P - D$$

D \ P	19	20	21	22	23
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

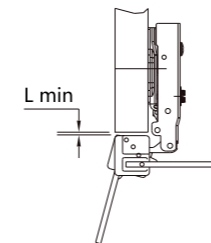
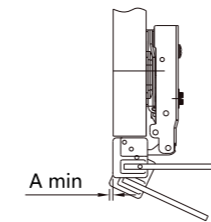
Inset



$$H = 20 + P + A$$

A \ P	19	20	21	22	23
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



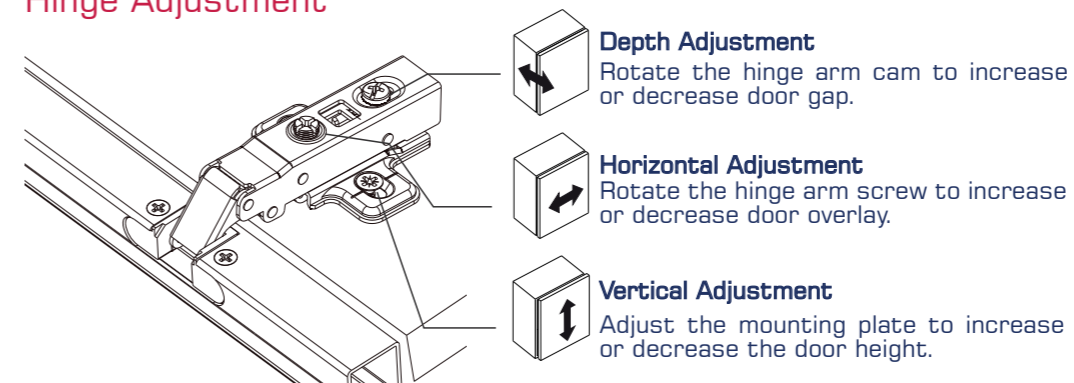
A \ P \ T	14	15	16	17	18	19	20	21	22
19	0,3	0,5	0,7	0,9	1,2	1,5	1,8	2,2	2,6
20	0,3	0,5	0,7	0,9	1,1	1,4	1,8	2,1	2,5
21	0,2	0,4	0,6	0,9	1,1	1,4	1,7	2,0	2,4
22	0,2	0,4	0,6	0,8	1,1	1,3	1,6	2,0	2,4
23	0,2	0,4	0,5	0,8	1,0	1,3	1,6	1,9	2,3

L \ T \ K	14	15	16	17	18	19	20	21	22
3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	0,0	0,0	0,0	0,0	0,0	0,3	0,5	0,8	1,0
6	0,0	0,3	0,5	0,8	1,0	1,3	1,5	1,8	2,0
7	1,0	1,3	1,5	1,7	2,0	2,2	2,5	2,7	2,9

K = Boring distance
 P = Aluminum frame width
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

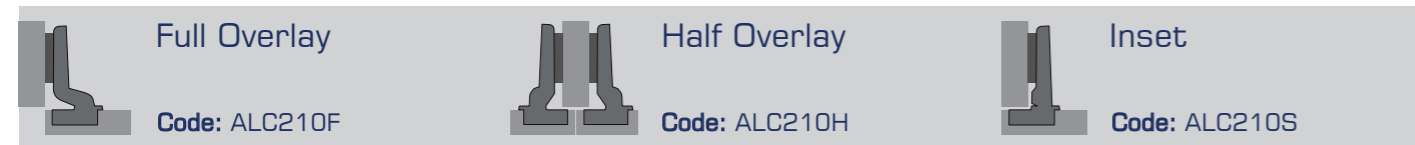


Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Clip On
Cup Depth	Aluminum Frame Die Cut
Cup Diameter	42/28 mm
Drilling Distance	Aluminum Frame Die Cut
Door Thickness	19 mm - 23 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

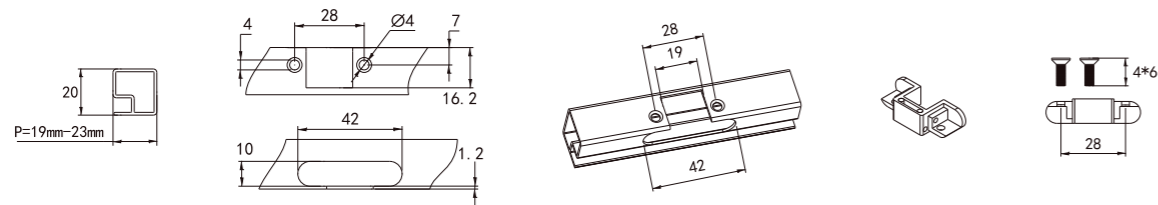
Notable Features

- Heavy duty product.
- Designed for thin aluminum frame.
- Flush installation for minimal effect on cabinet design.



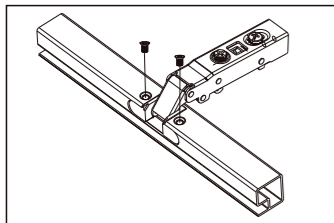
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

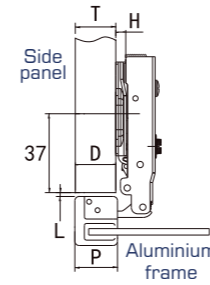
Screw-on



Installation Method Code
 Wood Screws S2

Overlay Table

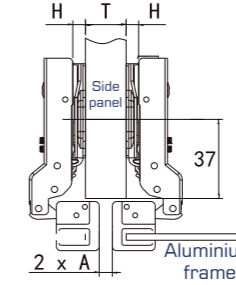
Full Overlay



$$H = -2 + P - D$$

D \ P	19	20	21	22	23
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

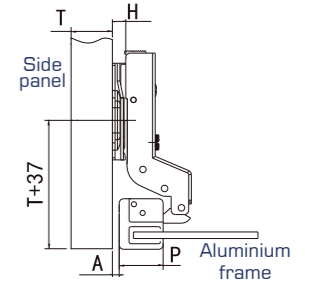
Half Overlay



$$H = 12 + P - D$$

D \ P	19	20	21	22	23
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

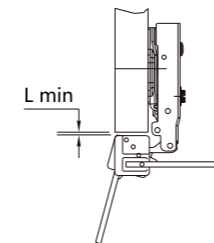
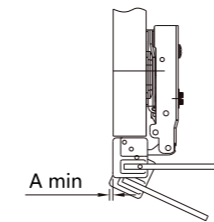
Inset



$$H = 20 + P + A$$

A \ P	19	20	21	22	23
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



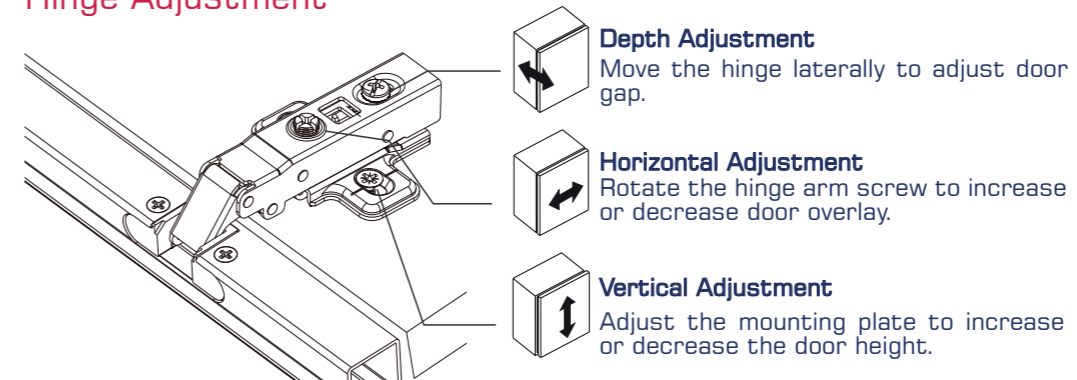
A \ P	14	15	16	17	18	19	20	21	22
19	0,3	0,5	0,7	0,9	1,2	1,5	1,8	2,2	2,6
20	0,3	0,5	0,7	0,9	1,1	1,4	1,8	2,1	2,5
21	0,2	0,4	0,6	0,9	1,1	1,4	1,7	2,0	2,4
22	0,2	0,4	0,6	0,8	1,1	1,3	1,6	2,0	2,4
23	0,2	0,4	0,5	0,8	1,0	1,3	1,6	1,9	2,3

L \ T	14	15	16	17	18	19	20	21	22
3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	0,0	0,0	0,0	0,0	0,0	0,3	0,5	0,8	1,0
6	0,0	0,3	0,5	0,8	1,0	1,3	1,5	1,8	2,0
7	1,0	1,3	1,5	1,7	2,0	2,2	2,5	2,7	2,9

K = Boring distance
 P = Aluminum frame width
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP


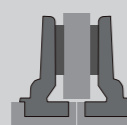



Specification

Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	Aluminum Frame Die Cut
Cup Diameter	42/28 mm
Drilling Distance	Aluminum Frame Die Cut
Door Thickness	19 mm - 23 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

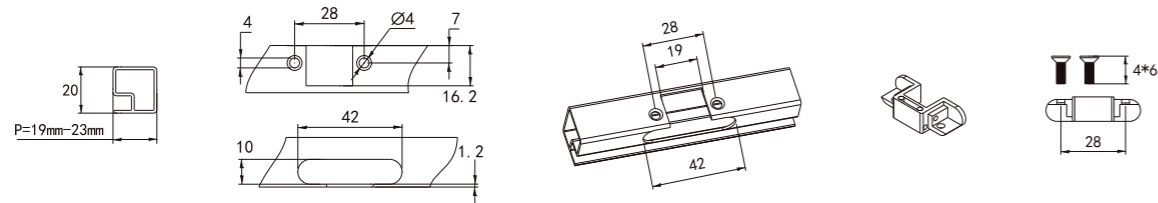
Notable Features

- Heavy duty product.
- Designed for thin aluminum frame.
- Flush installation for minimal effect on cabinet design.

 Full Overlay	 Half Overlay	 Inset
Code: ALN210F	Code: ALN210H	Code: ALN210S

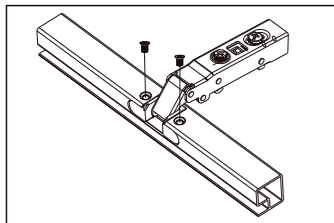
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

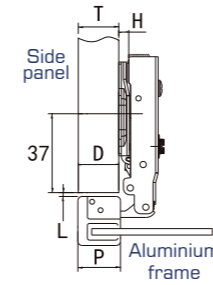
Screw-on



Installation Method Code
 Wood Screws S2

Overlay Table

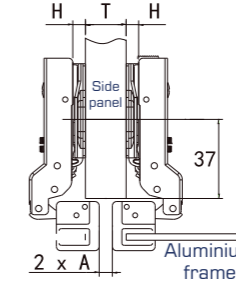
Full Overlay



$$H = -2 + P - D$$

D \ P	19	20	21	22	23
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

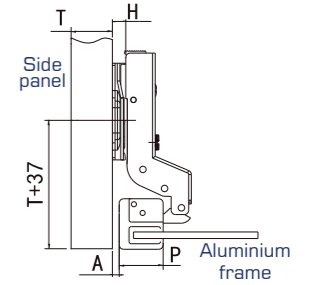
Half Overlay



$$H = 12 + P - D$$

D \ P	19	20	21	22	23
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

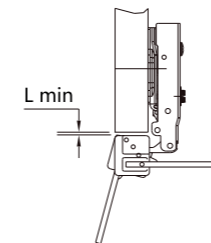
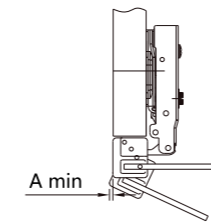
Inset



$$H = 20 + P + A$$

A \ P	19	20	21	22	23
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



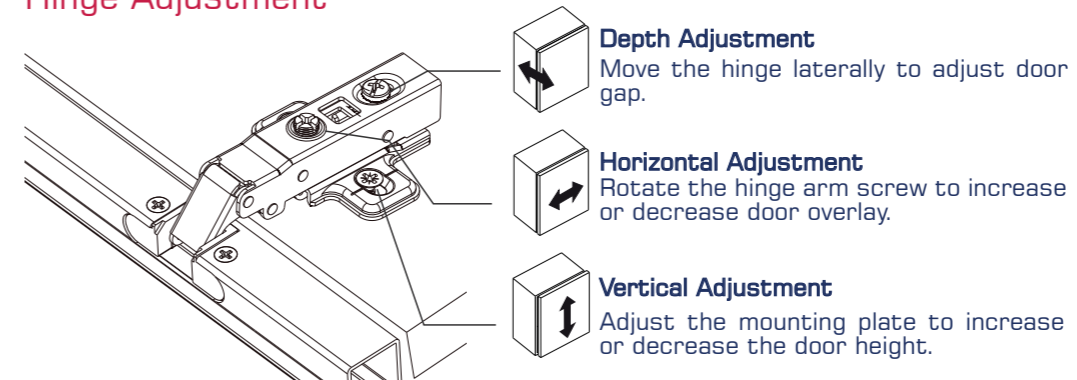
A \ P	14	15	16	17	18	19	20	21	22
19	0,3	0,5	0,7	0,9	1,2	1,5	1,8	2,2	2,6
20	0,3	0,5	0,7	0,9	1,1	1,4	1,8	2,1	2,5
21	0,2	0,4	0,6	0,9	1,1	1,4	1,7	2,0	2,4
22	0,2	0,4	0,6	0,8	1,1	1,3	1,6	2,0	2,4
23	0,2	0,4	0,5	0,8	1,0	1,3	1,6	1,9	2,3

L \ T	14	15	16	17	18	19	20	21	22
3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	0,0	0,0	0,0	0,0	0,0	0,3	0,5	0,8	1,0
6	0,0	0,3	0,5	0,8	1,0	1,3	1,5	1,8	2,0
7	1,0	1,3	1,5	1,7	2,0	2,2	2,5	2,7	2,9

K = Boring distance
 P = Aluminum frame width
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.



Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Clip On
Cup Depth	Aluminum Frame Die Cut
Cup Diameter	42/28 mm
Drilling Distance	Aluminum Frame Die Cut
Door Thickness	19 mm - 23 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	3.8 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

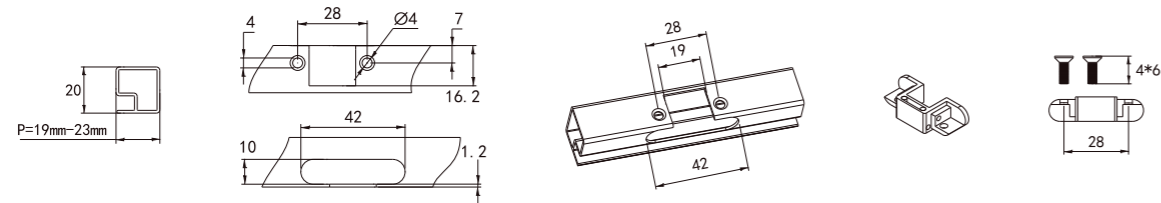
Notable Features

- Heavy duty product.
- Designed for thin aluminum frame.
- Flush installation for minimal effect on cabinet design.

 Full Overlay	 Half Overlay	 Inset
Code: ANT110F	Code: ANT110H	Code: ANT110S

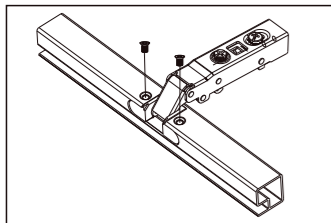
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

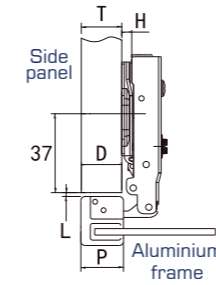
Screw-on



Installation Method Code
 Wood Screws S3

Overlay Table

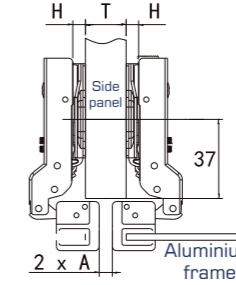
Full Overlay



$$H = -2 + P - D$$

D \ P	19	20	21	22	23
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

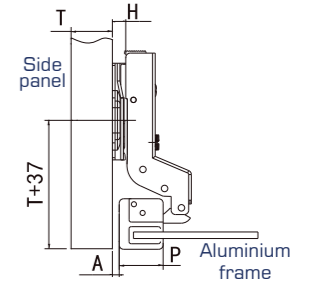
Half Overlay



$$H = 12 + P - D$$

D \ P	19	20	21	22	23
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

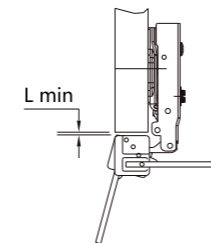
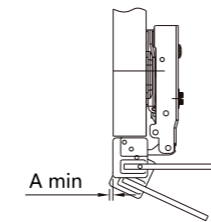
Inset



$$H = 20 + P + A$$

A \ P	19	20	21	22	23
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



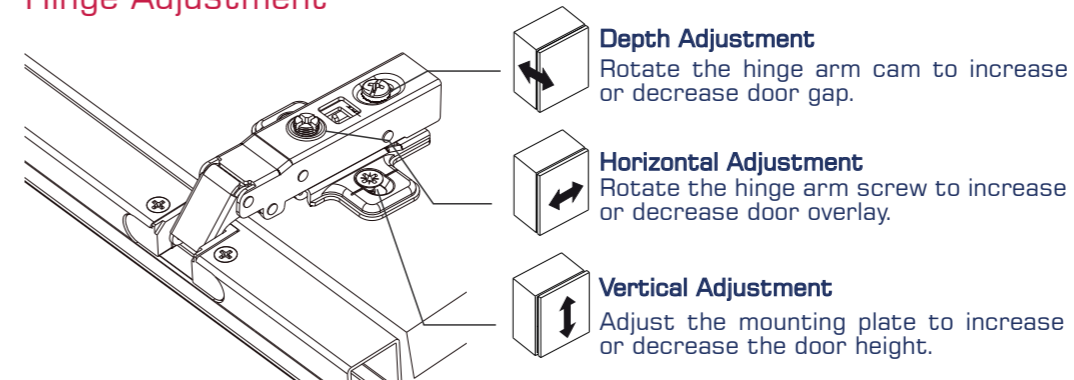
A \ P	14	15	16	17	18	19	20	21	22
19	0,3	0,5	0,7	0,9	1,2	1,5	1,8	2,2	2,6
20	0,3	0,5	0,7	0,9	1,1	1,4	1,8	2,1	2,5
21	0,2	0,4	0,6	0,9	1,1	1,4	1,7	2,0	2,4
22	0,2	0,4	0,6	0,8	1,1	1,3	1,6	2,0	2,4
23	0,2	0,4	0,5	0,8	1,0	1,3	1,6	1,9	2,3

L \ T	14	15	16	17	18	19	20	21	22
3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	0,0	0,0	0,0	0,0	0,0	0,3	0,5	0,8	1,0
6	0,0	0,3	0,5	0,8	1,0	1,3	1,5	1,8	2,0
7	1,0	1,3	1,5	1,7	2,0	2,2	2,5	2,7	2,9

K = Boring distance
 P = Aluminum frame width
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



- Depth Adjustment**
Rotate the hinge arm cam to increase or decrease door gap.
- Horizontal Adjustment**
Rotate the hinge arm screw to increase or decrease door overlay.
- Vertical Adjustment**
Adjust the mounting plate to increase or decrease the door height.

Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

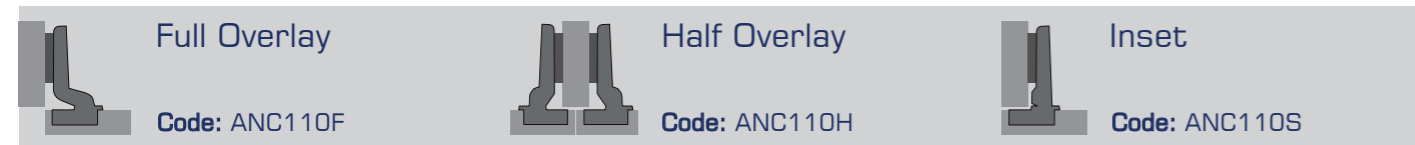


Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Clip On
Cup Depth	Aluminum Frame Die Cut
Cup Diameter	42/28 mm
Drilling Distance	Aluminum Frame Die Cut
Door Thickness	19 mm - 23 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

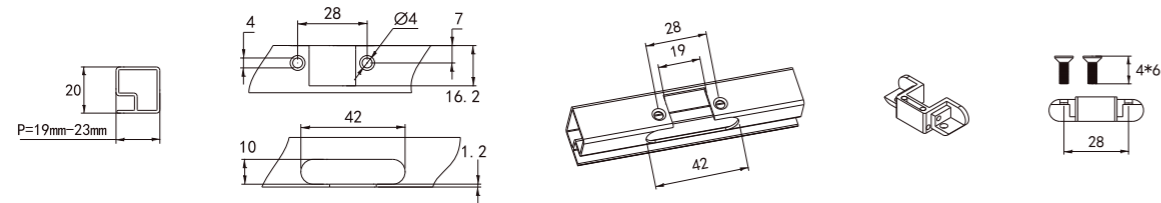
Notable Features

- Heavy duty product.
- Designed for thin aluminum frame.
- Flush installation for minimal effect on cabinet design.



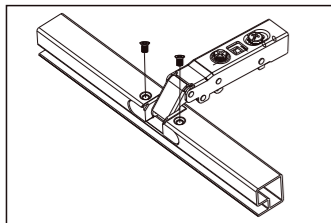
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

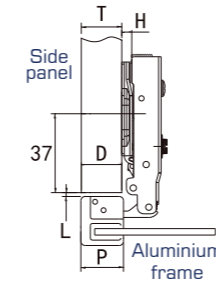
Screw-on



Installation Method Code
 Wood Screws S4

Overlay Table

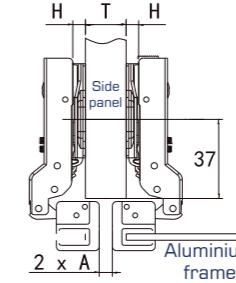
Full Overlay



$$H = -2 + P - D$$

D \ P	19	20	21	22	23
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

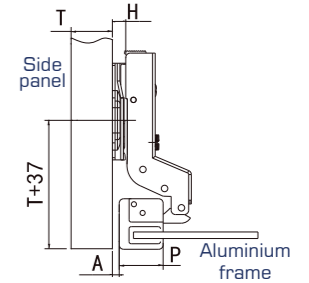
Half Overlay



$$H = 12 + P - D$$

D \ P	19	20	21	22	23
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

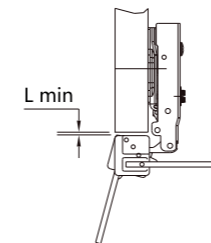
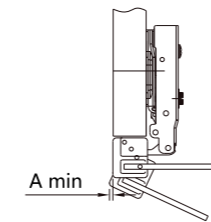
Inset



$$H = 20 + P + A$$

A \ P	19	20	21	22	23
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



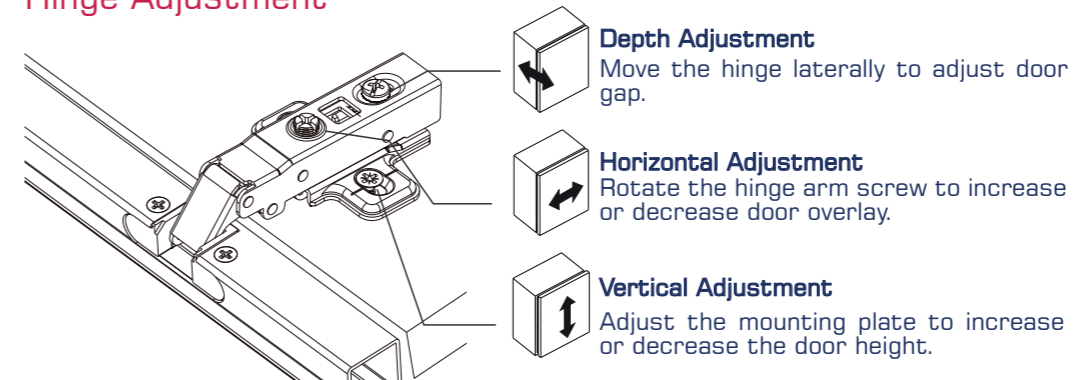
A \ P	14	15	16	17	18	19	20	21	22
19	0,3	0,5	0,7	0,9	1,2	1,5	1,8	2,2	2,6
20	0,3	0,5	0,7	0,9	1,1	1,4	1,8	2,1	2,5
21	0,2	0,4	0,6	0,9	1,1	1,4	1,7	2,0	2,4
22	0,2	0,4	0,6	0,8	1,1	1,3	1,6	2,0	2,4
23	0,2	0,4	0,5	0,8	1,0	1,3	1,6	1,9	2,3

L \ T	14	15	16	17	18	19	20	21	22
3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	0,0	0,0	0,0	0,0	0,0	0,3	0,5	0,8	1,0
6	0,0	0,3	0,5	0,8	1,0	1,3	1,5	1,8	2,0
7	1,0	1,3	1,5	1,7	2,0	2,2	2,5	2,7	2,9

K = Boring distance
 P = Aluminum frame width
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: DS TS FP FS FM FN YD YS YT YP

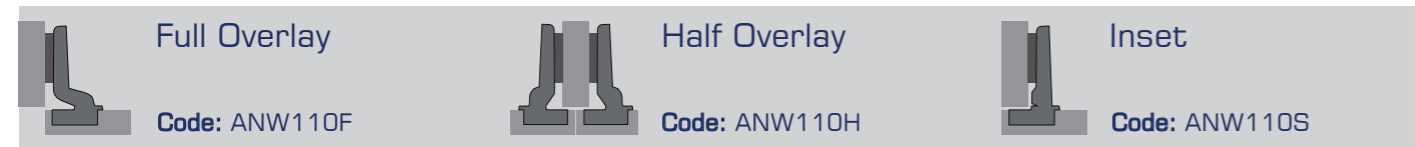


Specification

Opening Angle	105°
Function	Auto Close
Plate Type	Slide On
Cup Depth	Aluminum Frame Die Cut
Cup Diameter	42/28 mm
Drilling Distance	Aluminum Frame Die Cut
Door Thickness	19 mm - 23 mm
Material	Cold Rolled Steel
Height Adjustment Range	Plate Adjustment
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

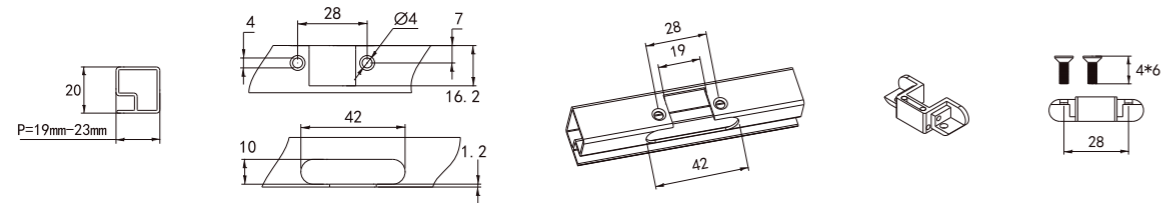
Notable Features

- Heavy duty product.
- Designed for thin aluminum frame.
- Flush installation for minimal effect on cabinet design.



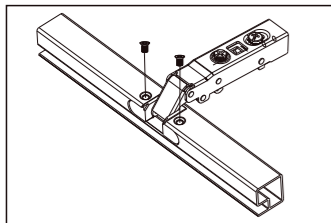
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
 2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



Cup Installation

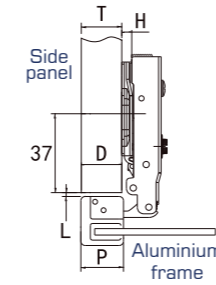
Screw-on



Installation Method Code
 Wood Screws S5

Overlay Table

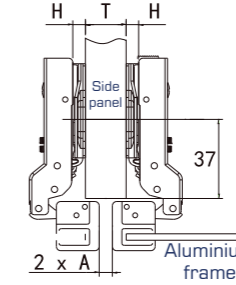
Full Overlay



$$H = -2 + P - D$$

D \ P	19	20	21	22	23
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

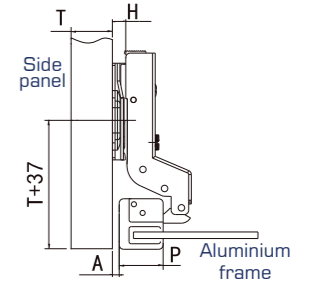
Half Overlay



$$H = 12 + P - D$$

D \ P	19	20	21	22	23
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

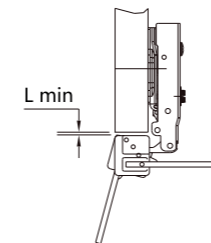
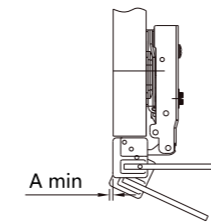
Inset



$$H = 20 + P + A$$

A \ P	19	20	21	22	23
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table



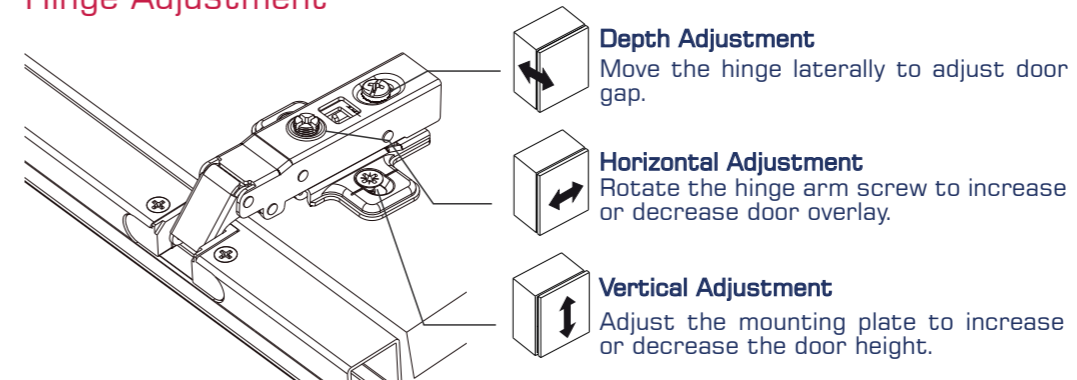
A \ P	14	15	16	17	18	19	20	21	22
19	0,3	0,5	0,7	0,9	1,2	1,5	1,8	2,2	2,6
20	0,3	0,5	0,7	0,9	1,1	1,4	1,8	2,1	2,5
21	0,2	0,4	0,6	0,9	1,1	1,4	1,7	2,0	2,4
22	0,2	0,4	0,6	0,8	1,1	1,3	1,6	2,0	2,4
23	0,2	0,4	0,5	0,8	1,0	1,3	1,6	1,9	2,3

L \ T	14	15	16	17	18	19	20	21	22
3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	0,0	0,0	0,0	0,0	0,0	0,3	0,5	0,8	1,0
6	0,0	0,3	0,5	0,8	1,0	1,3	1,5	1,8	2,0
7	1,0	1,3	1,5	1,7	2,0	2,2	2,5	2,7	2,9

K = Boring distance
 P = Aluminum frame width
 T = Door thickness
 A = Minimum gap (A) for door with a door edge radius
 L = Gap between door and panel

Note:
 The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

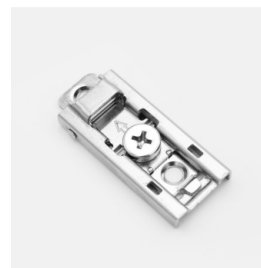
Hinge Adjustment



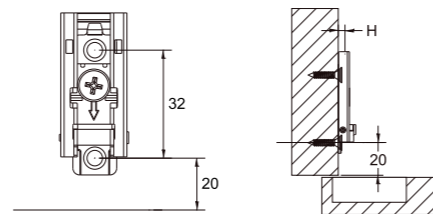
Note:
 The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.

Plate Options: RT RF

VP Type 2 Hole Mounting Plate for CELO Concealed Hinge
For 4 x 15.5 mm Wood Screws

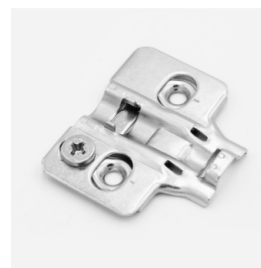


Category Clip-on
Adjustment Cam Adjustment
Range of Adjustment ± 1.9 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 20 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton

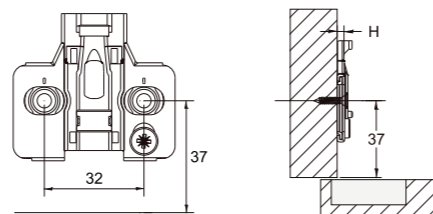


Height	H=0
Item Code	VPS110Z

SD Type 3D Stainless Steel 304 Mounting Plate (Cam Adjustable)
For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Cam Adjustment
Range of Adjustment ± 2 mm
Material Stainless Steel 304
Finish Stainless Steel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton

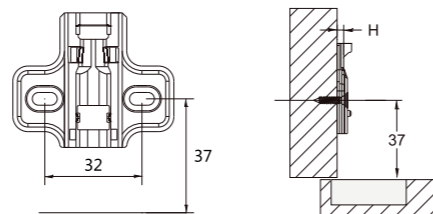


Height	H=0
Item Code	SDS150Z

ST Type 2 Hole Stainless Steel 304 Mounting Plate
For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Stainless Steel 304
Finish Stainless Steel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton

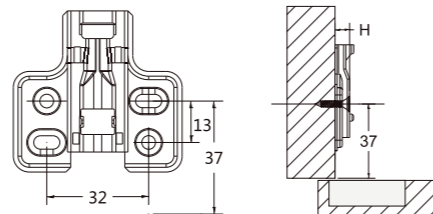


Height	H=0	H=2
Item Code	SRS150Z	SRS150T

SE Type 4 Hole Stainless Steel 304 Mounting Plate (Asymmetrical Holes)
For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Stainless Steel 304
Finish Stainless Steel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton

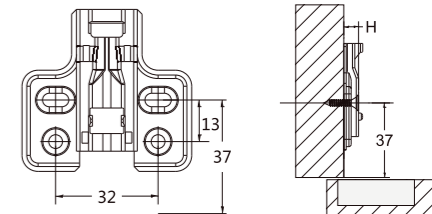


Height	H=2
Item Code	SES150T

SF Type 4 Hole Stainless Steel 304 Mounting Plate (Symmetrical Holes)
For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Stainless Steel 304
Finish Stainless Steel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton

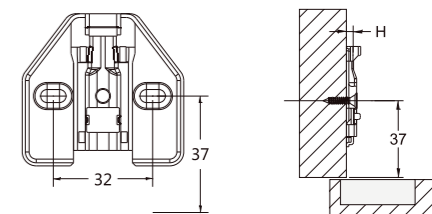


Height	H=0	H=2
Item Code	SFS150Z	SFS150T

CT Type 2 Hole Stainless Steel 304 Mounting Plate
For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Stainless Steel 304
Finish Stainless Steel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton

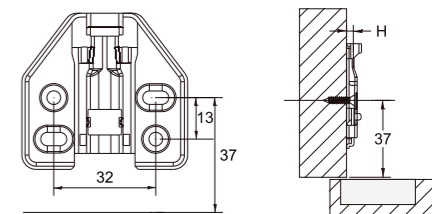


Height	H=0
Item Code	CTS150Z

CE Type 4 Hole Stainless Steel 304 Mounting Plate (Asymmetrical Holes)
For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Stainless Steel 304
Finish Stainless Steel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton

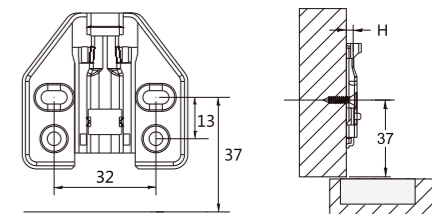


Height	H=0
Item Code	CES150Z

CF Type 4 Hole Stainless Steel 304 Mounting Plate (Symmetrical Holes)
For 4 x 15.5 mm Wood Screws



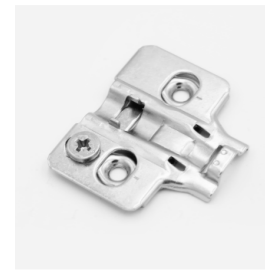
Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Stainless Steel 304
Finish Stainless Steel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



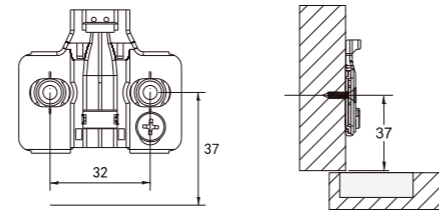
Height	H=0
Item Code	CFS150Z

DS Type 3D Concealed Hinge Mounting Plate (Cam Adjustable)

For 4 x 15.5 mm Wood Screws



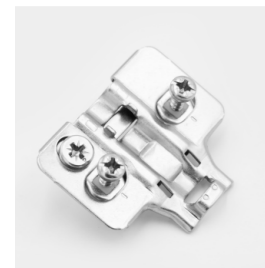
Category Clip-on
Adjustment Cam Adjustment
Range of Adjustment ± 1.9 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



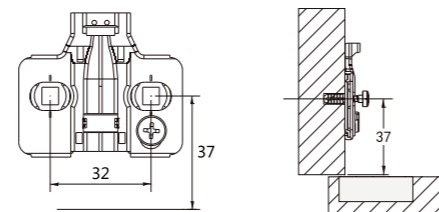
Height	H=0	H=2	H=4
Item Code	DSS110Z	DSS110T	DSS110F

DS Type 3D Concealed Hinge Mounting Plate (Cam Adjustable)

With Pre-Mounted Dowels: Ø5 x 12 mm



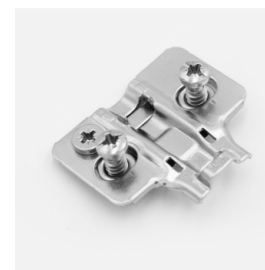
Category Clip-on
Adjustment Cam Adjustment
Range of Adjustment ± 1.9 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



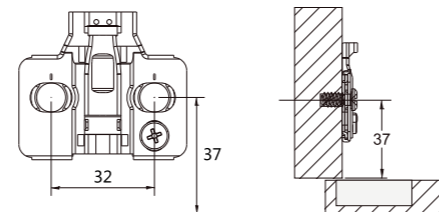
Height	H=0	H=2	H=4
Item Code	DSD110Z	DSD110T	DSD110F

DS Type 3D Concealed Hinge Mounting Plate (Cam Adjustable)

With Pre-Mounted Euro Screws: Ø5 x 12 mm



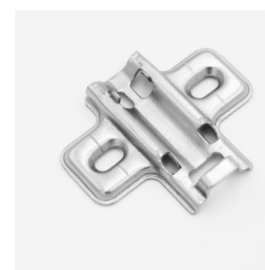
Category Clip-on
Adjustment Cam Adjustment
Range of Adjustment ± 1.9 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



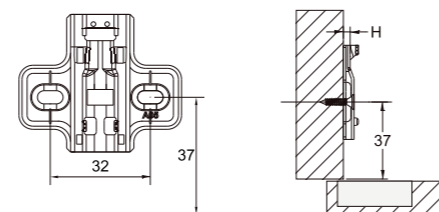
Height	H=0	H=2	H=4
Item Code	DSE110Z	DSE110T	DSE110F

TS Type 2 Hole Concealed Hinge Mounting Plate

For 4 x 15.5 mm Wood Screws



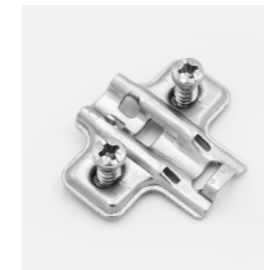
Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



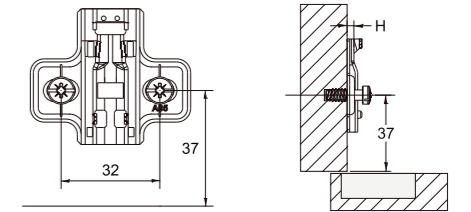
Height	H=0	H=2	H=4
Item Code	TSS110Z	TSS110T	TSS110F

TS Type 2 Hole Concealed Hinge Mounting Plate

With Pre-Mounted Dowels: Ø5 x 12 mm



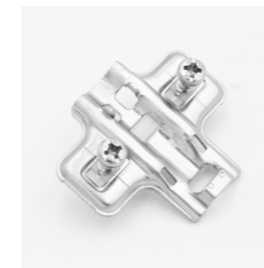
Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



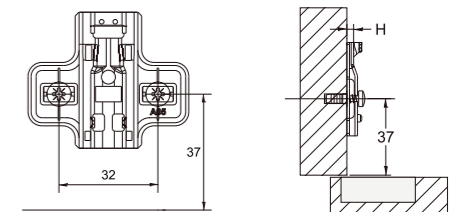
Height	H=0	H=2	H=4
Item Code	TSD110Z	TSD110T	TSD110F

TS Type 2 Hole Concealed Hinge Mounting Plate

With Pre-Mounted Euro Screws: Ø5 x 12 mm



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



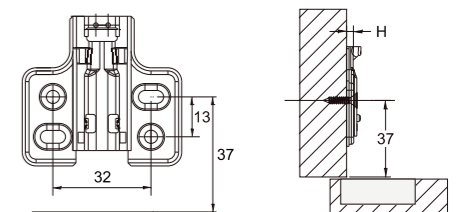
Height	H=0	H=2	H=4
Item Code	TSE110Z	TSE110T	TSE110F

FP Type 4 Hole Concealed Hinge Mounting Plate (Asymmetrical Holes)

For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



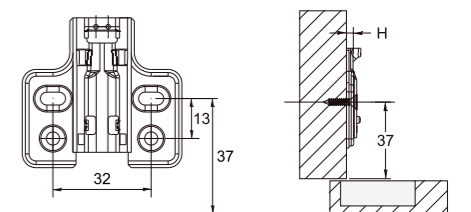
Height	H=0	H=2	H=4
Item Code	FPS110Z	FPS110T	FPS110F

FS Type 4 Hole Concealed Hinge Mounting Plate (Symmetrical Holes)

For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



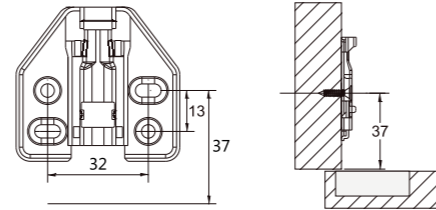
Height	H=0	H=2	H=4
Item Code	FSS110Z	FSS110T	FSS110F

FM Type 4 Hole Concealed Hinge Mounting Plate (Asymmetrical Holes)

With Pre-Mounted Euro Screws: Ø5 x 12 mm



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



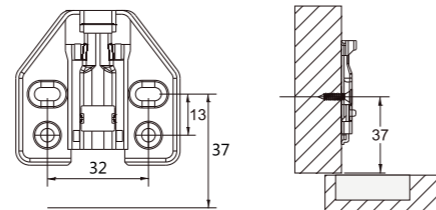
Height H=0
Item Code FMS110Z

FN Type 4 Hole Concealed Hinge Mounting Plate (Symmetrical Holes)

For 4 x 15.5 mm Wood Screws



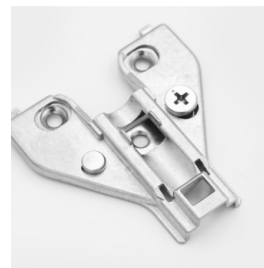
Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



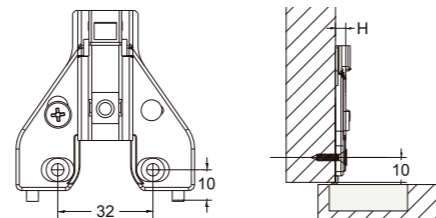
Height H=0
Item Code FNS110Z

YD Type 2 Hole Concealed Hinge Mounting Plate for Face Frame Cabinets (Cam Adjustable)

For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Cam Adjustment
Range of Adjustment ± 1.9 mm
Material Zinc Alloy
Finish Copper Nickel
Hole To Edge Distance 10 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



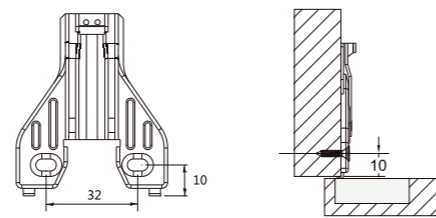
Height H=0 H=3 H=6
Item Code YDS120Z YDS120R YDS120S

YS Type 2 Hole Concealed Hinge Mounting Plate for Face Frame Cabinets

For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 10 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



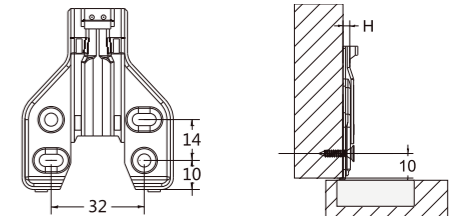
Height H=0 H=3
Item Code YSS110Z YSS110R

YT Type 4 Hole Concealed Hinge Mounting Plate for Face Frame Cabinets (Asymmetrical Holes)

For 4 x 15.5 mm Wood Screws



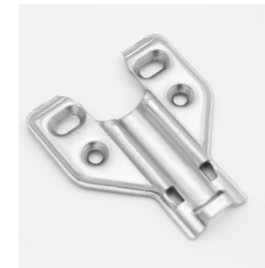
Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 10 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



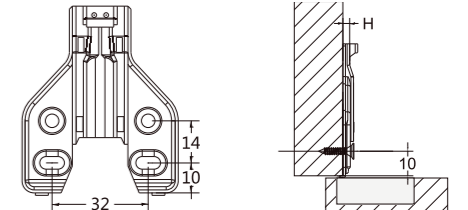
Height H=0
Item Code YTS110Z

YP Type 4 Hole Concealed Hinge Mounting Plate for Face Frame Cabinets (Symmetrical Holes)

For 4 x 15.5 mm Wood Screws



Category Clip-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 10 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



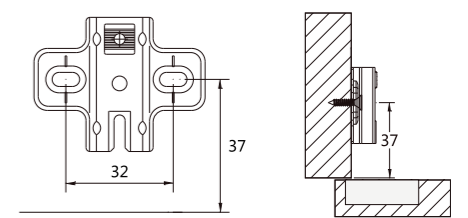
Height H=0
Item Code YPS110Z

RT Type 2 Hole Regular Hinge Mounting Plate with Auto Close Option

For 4 x 15.5 mm Wood Screws



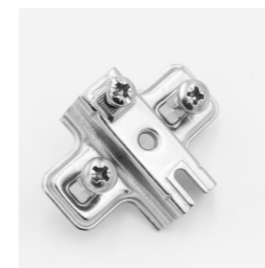
Category Slide-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



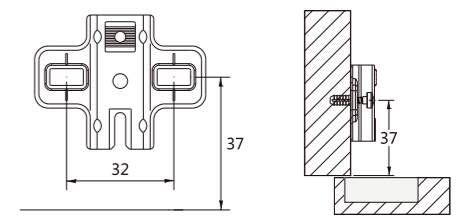
Height H=0 H=2 H=-2
Item Code RTS210Z RTS210T RTS210N

RT Type 2 Hole Regular Hinge Mounting Plate with Auto Close Option

With Pre-Mounted Dowels: Ø5 x 12 mm



Category Slide-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



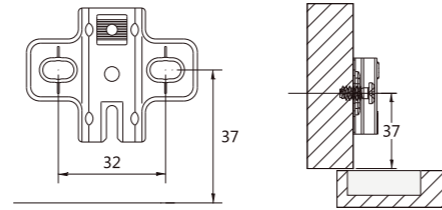
Height H=0 H=2 H=-2
Item Code RTD210Z RTD210T RTD210N

RT Type 2 Hole Regular Hinge Mounting Plate with Auto Close Option

With Pre-Mounted Euro Screws: Ø5 x 12 mm



Category Slide-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



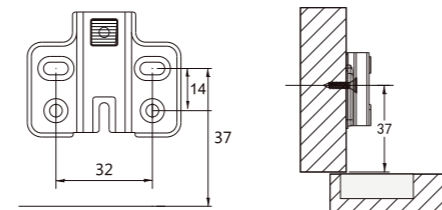
Height	H=0	H=2	H=-2
Item Code	RTE210Z	RTE210T	RTE210N

RF Type 4 Hole Regular Hinge Mounting Plate with Auto Close Option

For 4 x 15.5 mm Wood Screws



Category Slide-on
Adjustment Elongated Holes
Range of Adjustment ± 2 mm
Material Cold Rolled Steel
Finish Copper Nickel
Hole To Edge Distance 37 mm
Distance Between Holes 32 mm
Packaging 400 Units per Carton



Height	H=0	H=2
Item Code	RFS210Z	RFS210T



Arm Caps

Item Code
AC16



Square Arm Cap

Item Code
AC34



Stainless Steel Arm Cap

Item Code
AC64



Stainless Steel Arm Cap

Dowels

Item Code
CKT390K



8x12 mm Round Dowel (White)

Item Code
CKD390K



10x12 mm Round Dowel (White)

Item Code
CKE170E



8x8 mm LIGO Dowels (Red)

Cup Caps

Item Code
CC01



26 mm Cup Cover 38/8

Item Code
CC03



35 mm Cup Cover 45/48

Item Code
CC04



35 mm Cup Cover 52/5.5

Item Code
CKF170E



10x10 mm LIGO Dowels (Red)

Item Code
PKH390K



5x9 mm Dowel (White)

Item Code
PKU390K



5x12 mm Dowel (White)

Item Code
CC06



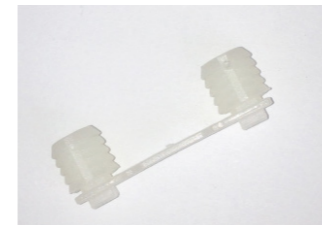
40 mm Cup Cover 52/7.5

Item Code
CC07



35 mm Cup Cover 45/48

Item Code
PKN390K



8 mm Bridge Dowels (White)

Item Code
PKV390K



10 mm Bridge Dowels (White)

Item Code
PKZ390K



5x10 mm Bridge Dowels (White)

Screws

Item Code
B910



4x15 mm Self-tapping Wood Screw

Item Code
B610



6.3x14 mm Euro Screw

Item Code
PKW390K



5x12 mm Bridge Dowels (White)

Item Code
PKX390K



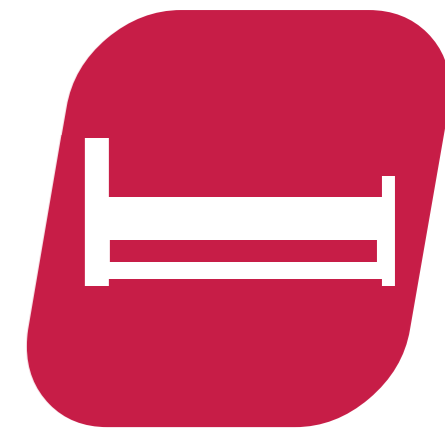
5x7.8 mm Bridge Dowels (White)

Item Code
PKY390E



5x9.8 mm LIGO Bridge Dowels (White)





DRAWER SLIDES

Introduction

Wilroy offers a wide range of drawer guides (slides) to accommodate every need at home, the office, the garage, the warehouse. Anywhere, residentially or commercially. These remarkable drawer slides sell exceptionally well thanks to their competitive price, smooth movement, high-quality material and manufacturing precision.

Free Your Imagination

Designed for a vast range of applications, we offer concealed drawer slides in addition to ball bearing slides ranging from 27 mm to 76 mm profiles with a variety of load-carrying capacities. We offer silent soft closing, push-to-open and regular drawer guides in a variety of lengths so you are free to design your cabinets with any size drawers knowing there is a Wilroy slide to make it work.

Quality You Can Rely On

Made from galvanized steel, Wilroy drawer guides are perfect for damp environments such as kitchens and bathrooms and will not rust. Wilroy drawer slides, tested to 50,000 cycles, satisfy all of the quality benchmarks of the industry at the reasonable prices you have come to expect from Wilroy.

Peace of Mind

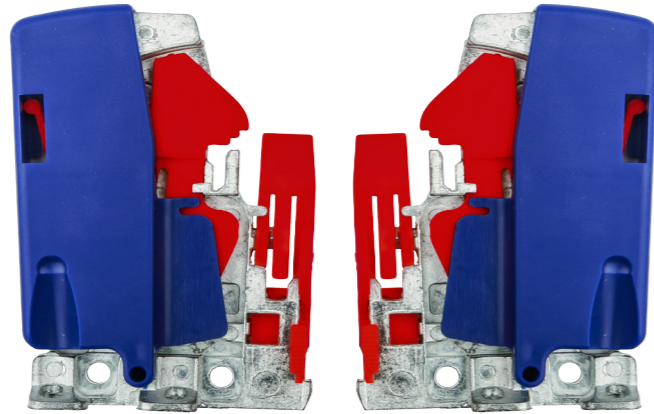
All our drawer guides are covered by Wilroy's hassle-free warranty for 5 years, and 10 years for our stainless steel models.

Available in partial and full extension, our Wilroy concealed drawer slide line features regular, push-to-open and soft closing mechanisms in a variety of lengths. These amazing drawer guides allow for an easy, tool-free drawer assembly and removal.

Locking Devices

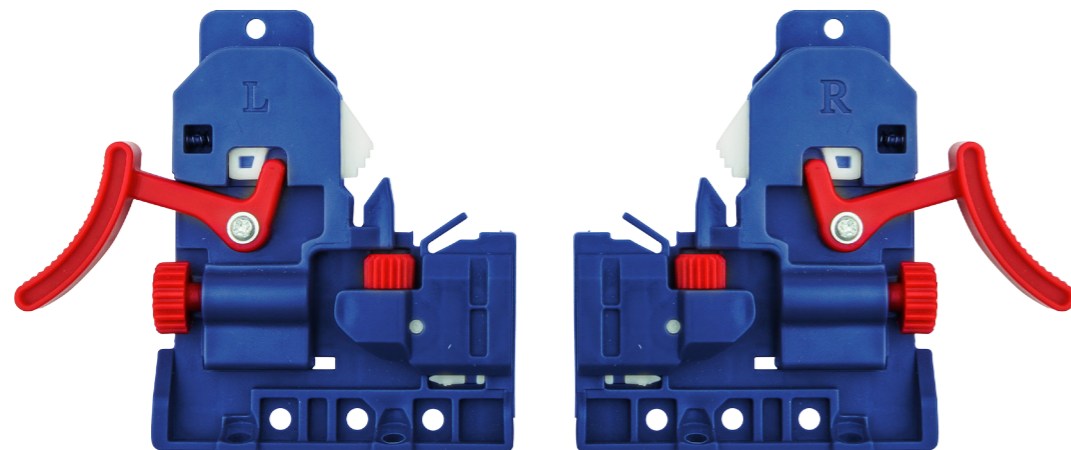
- Locking Bracket with Metal Chassis (standard)

- Used for standard applications
- Self-adjusting drawer length tolerance
- Metal chassis with synthetic release levers
- 124 mm minimum inside drawer width
- One left unit and one right unit required per drawer
- Built-in height adjustment



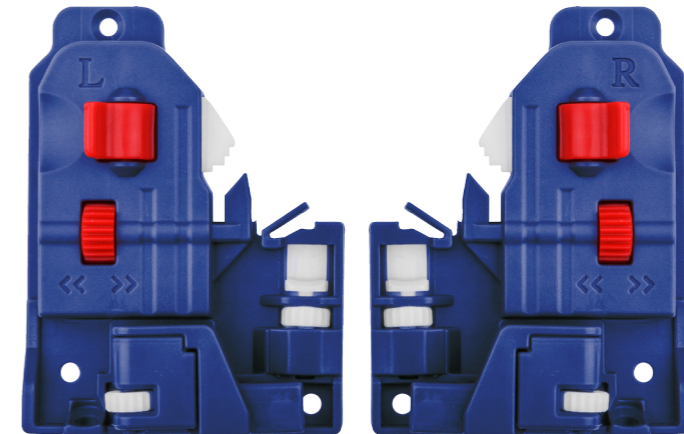
- 2D Locking Bracket

- Self-adjusting drawer length tolerance
- 124 mm minimum inside drawer width
- One left unit and one right unit required per drawer
- Built-in height adjustment
- Built-in side-to-side adjustment



- 3D Locking Bracket

- Self-adjusting drawer length tolerance
- 124 mm minimum inside drawer width
- One left unit and one right unit required per drawer
- Built-in height adjustment
- Built-in side-to-side adjustment
- Built-in depth adjustment



Soft Closing Full Extension Concealed Slide (with Locking Device)



Options

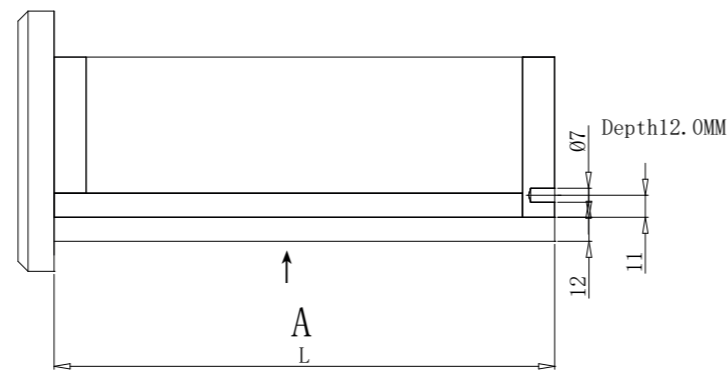
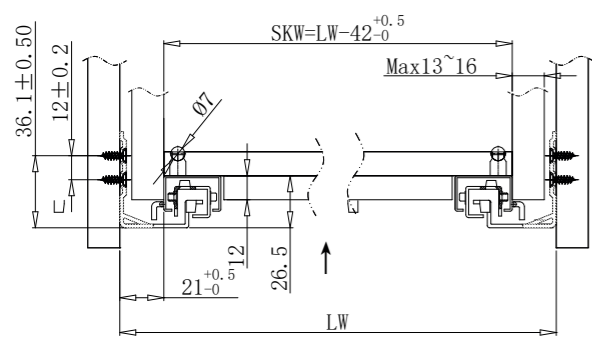
- Available with optional elongated holes.
- Optional locking devices available.

Specification

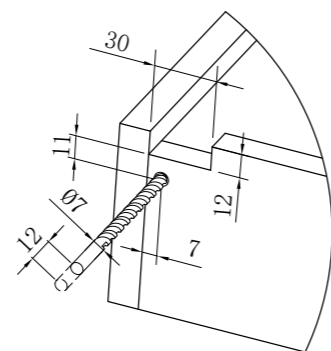
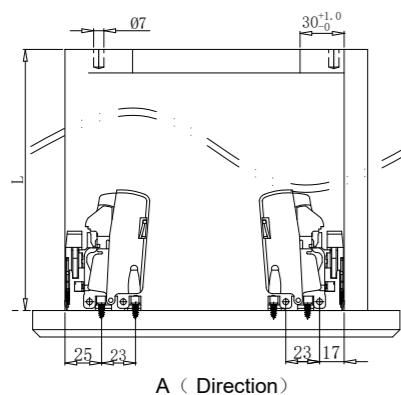
Function	Soft Closing
Extension	Full Extension
Locking Accessory	Locking Brackets with Metal Chassis
Available Sizes	300 mm - 550 mm
Load Capacity	Up to 30 kg
Thickness	1.0 x 1.5 x 1.8 mm
Material	Galvanized Steel
Packaging	10 Sets per Carton

Installation Dimensions

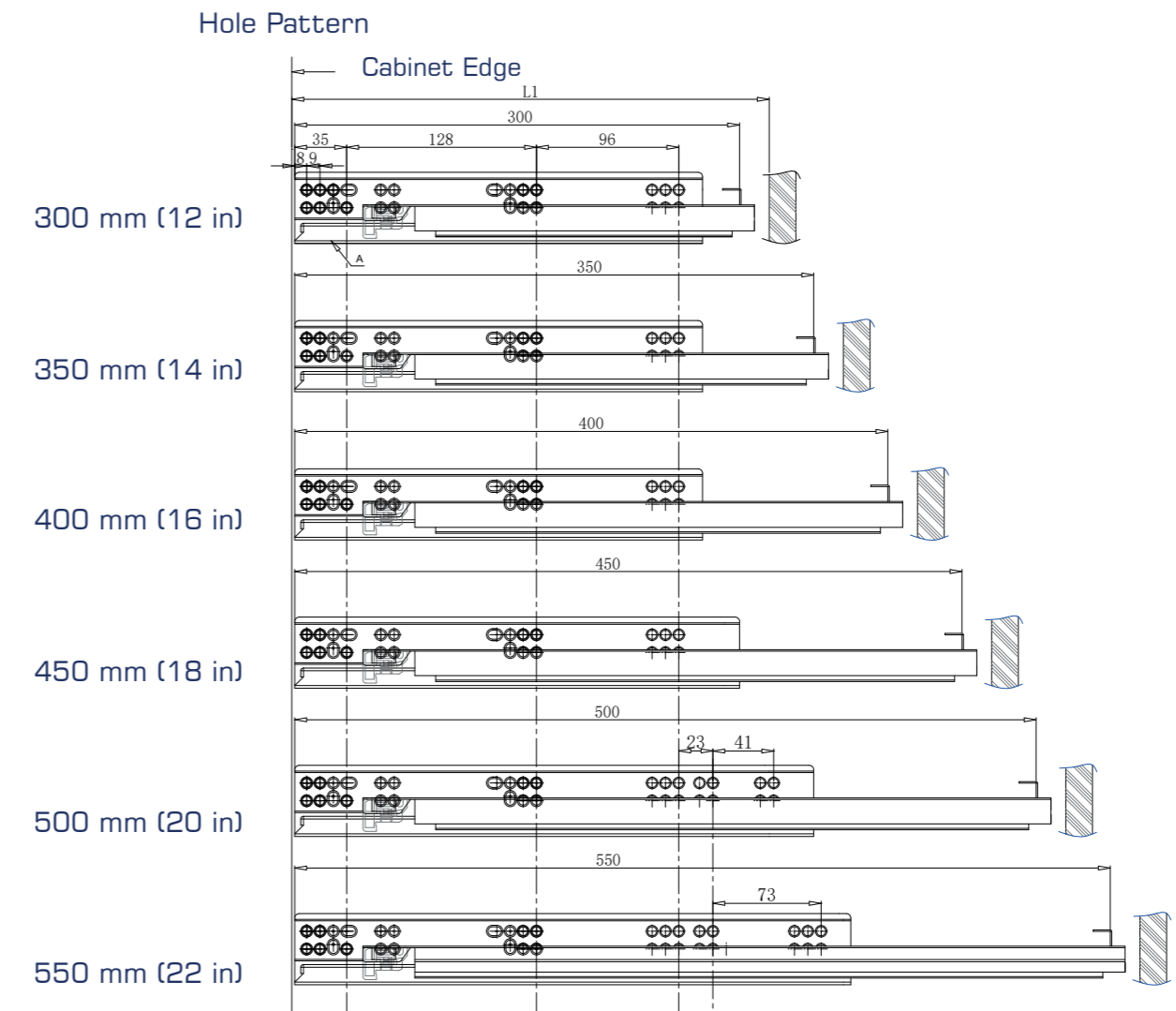
SKW = Internal Drawer Width
LW = Internal Cabinet Width



Drawer Sine and Boring



Slide Mounting Holes



Measurements Table

Item No	Slide Length (L)	Minimum Cabinet Inner Depth (L1)	Packaging (sets/carton)	
FSF0300B	12"	300 mm	319 mm	10
FSF0350B	14"	350 mm	369 mm	10
FSF0400B	16"	400 mm	419 mm	10
FSF0450B	18"	450 mm	469 mm	10
FSF0500B	20"	500 mm	519 mm	10
FSF0550B	22"	550 mm	569 mm	10

Push-to-Open Full Extension Concealed Slide (with Locking Device)



Options

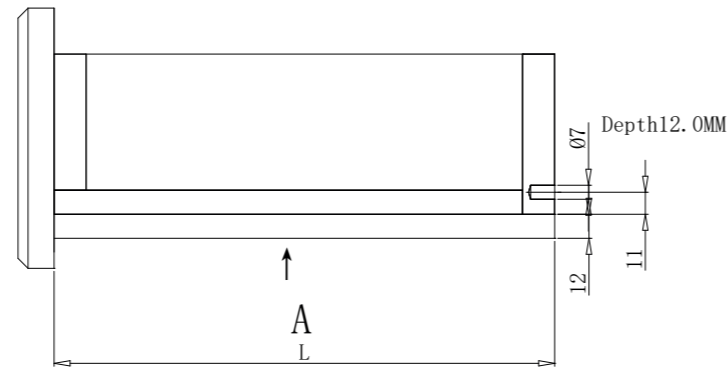
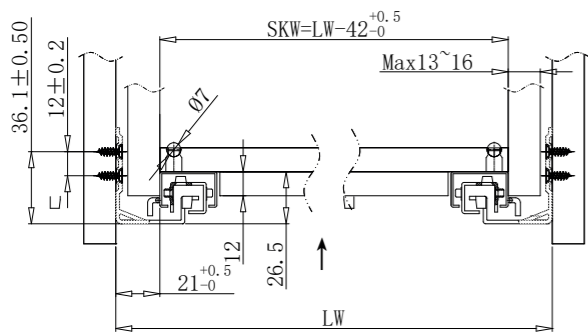
- Available with optional elongated holes.
- Optional locking devices available.

Specification

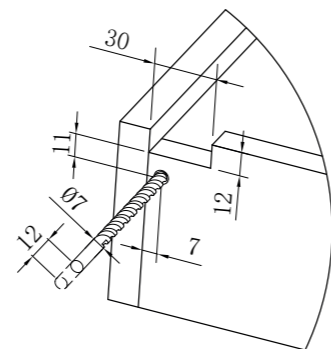
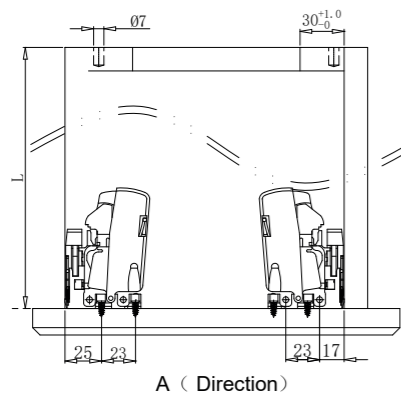
Function	Push-to-open
Extension	Full Extension
Locking Accessory	Locking Brackets with Metal Chassis
Available Sizes	300 mm - 550 mm
Load Capacity	Up to 30 kg
Thickness	1.0 x 1.5 x 1.8 mm
Material	Galvanized Steel
Packaging	10 Sets per Carton

Installation Dimensions

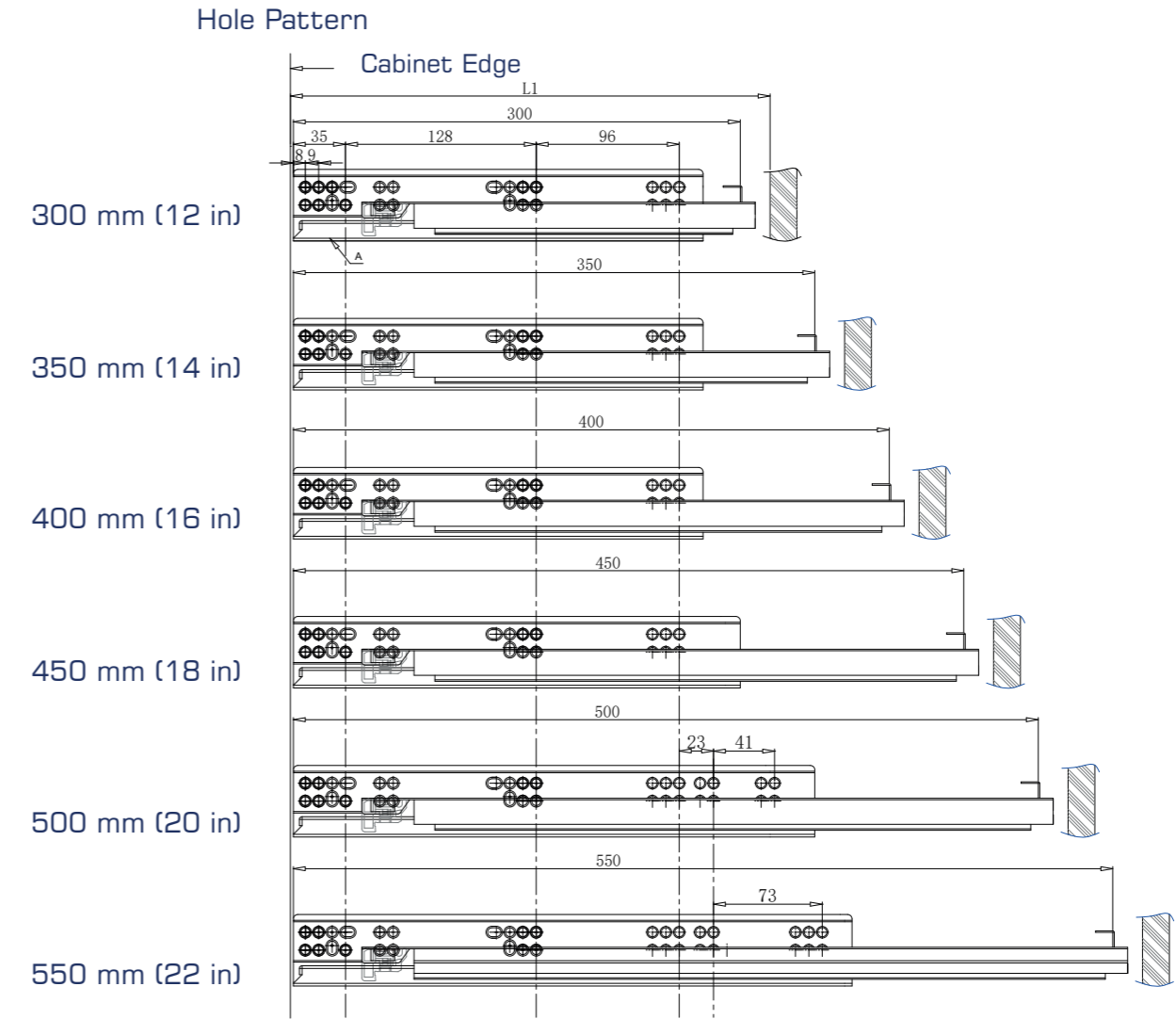
SKW = Internal Drawer Width
LW = Internal Cabinet Width



Drawer Sine and Boring



Slide Mounting Holes



Measurements Table

Item No	Slide Length (L)	Minimum Cabinet Inner Depth (L1)	Packaging (sets/carton)	
FTF0300B	12"	300 mm	319 mm	10
FTF0350B	14"	350 mm	369 mm	10
FTF0400B	16"	400 mm	419 mm	10
FTF0450B	18"	450 mm	469 mm	10
FTF0500B	20"	500 mm	519 mm	10
FTF0550B	22"	550 mm	569 mm	10

Soft Closing Partial Extension Concealed Slide (with Locking Pins)



Options

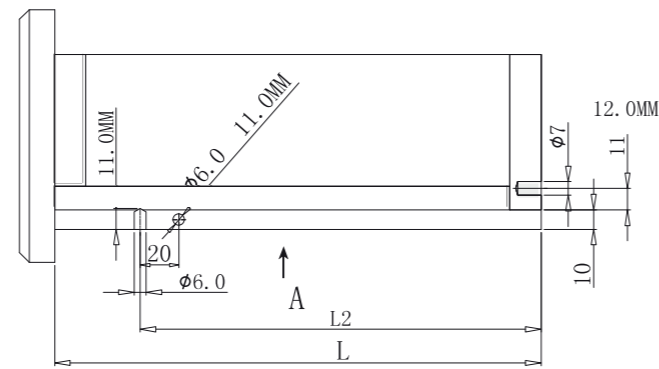
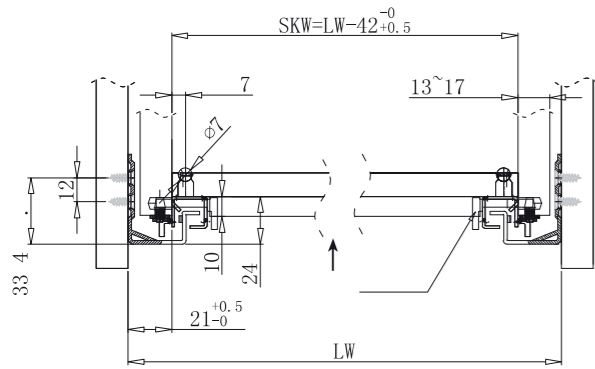
- Available with optional elongated holes.

Specification

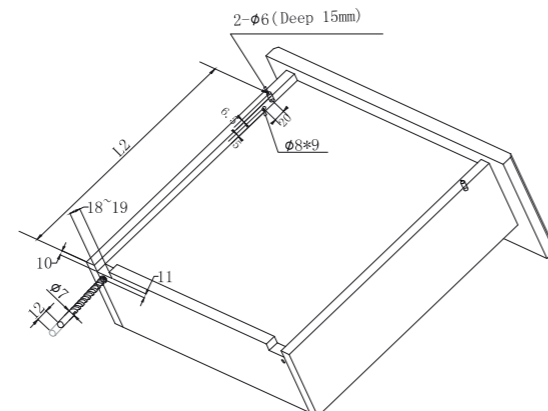
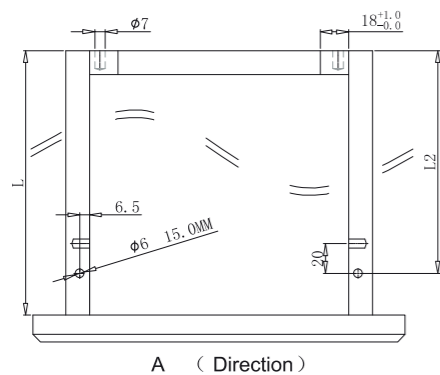
Function	Soft Closing
Extension	Partial Extension
Locking Accessory	Locking Pins
Available Sizes	250 mm - 550 mm
Load Capacity	Up to 25 kg
Thickness	1.5 x 1.5 mm
Material	Galvanized Steel
Packaging	10 Sets per Carton

Installation Dimensions

SKW = Internal Drawer Width
LW = Internal Cabinet Width

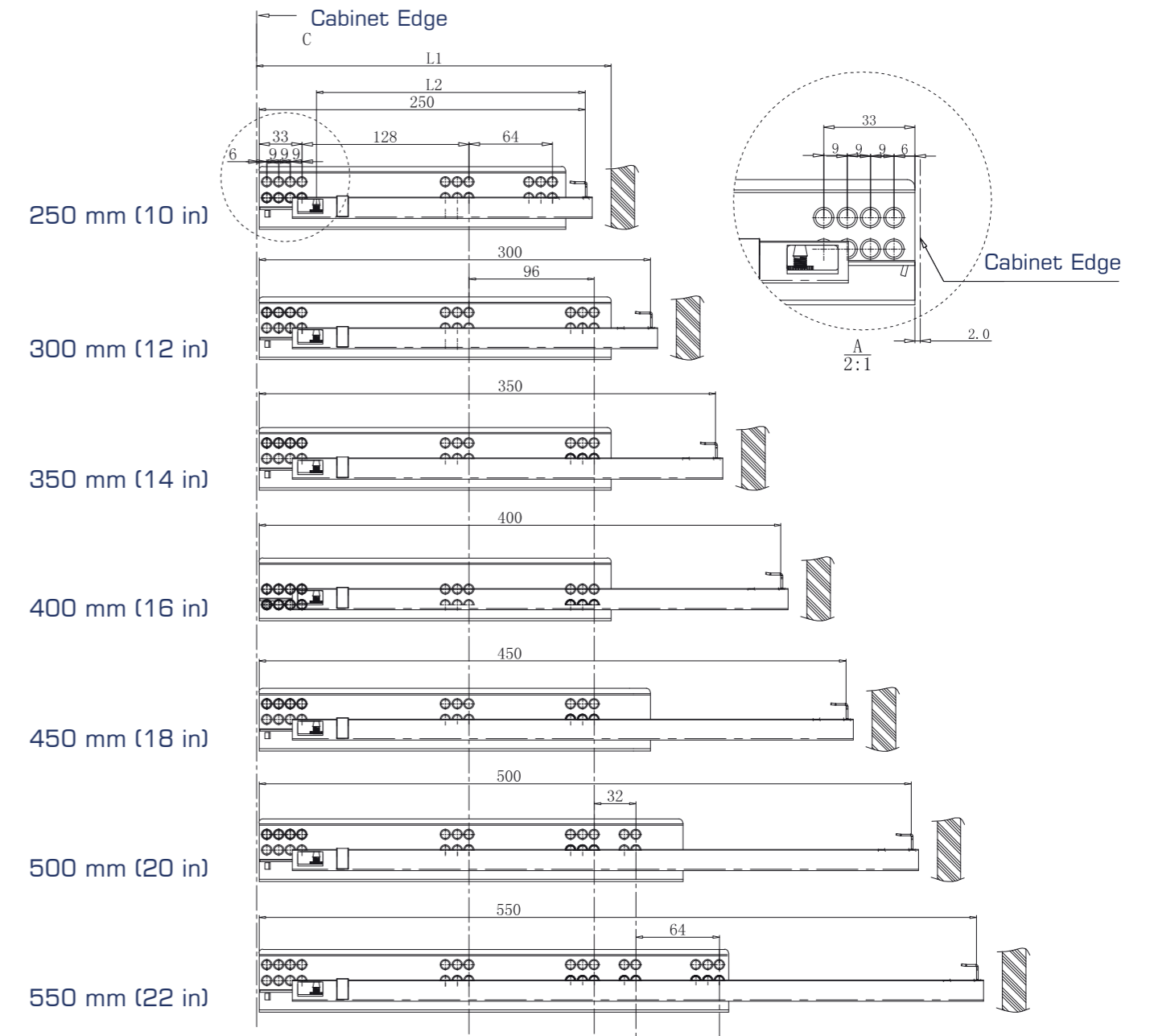


Drawer Sine and Boring



Slide Mounting Holes

Hole Pattern



Measurements Table

Item No	Slide Length (L)	Minimum Cabinet Inner Depth (L1)	Packaging (sets/carton)	
PSS0250W	10"	250 mm	269 mm	10
PSS0300W	12"	300 mm	319 mm	10
PSS0350W	14"	350 mm	369 mm	10
PSS0400W	16"	400 mm	419 mm	10
PSS0450W	18"	450 mm	469 mm	10
PSS0500W	20"	500 mm	519 mm	10
PSS0550W	22"	550 mm	569 mm	10

Push-to-Open Partial Extension Concealed Slide (with Locking Pins)



Options

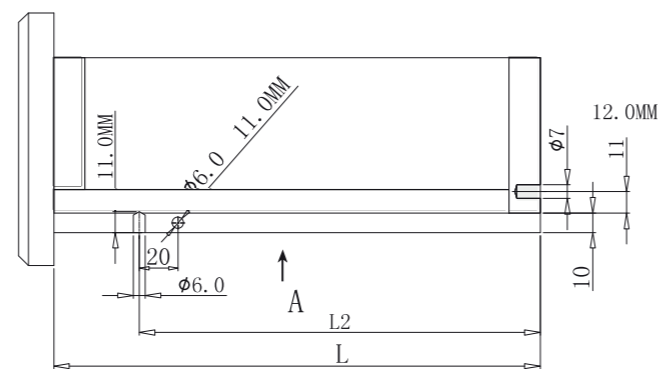
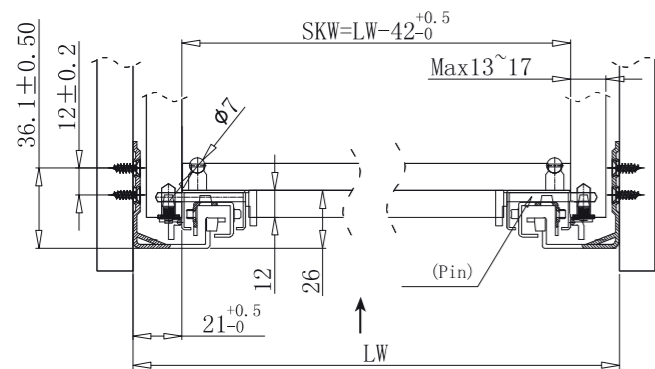
- Available with optional elongated holes.

Specification

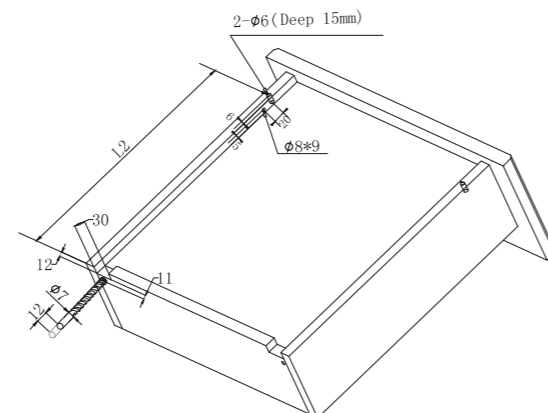
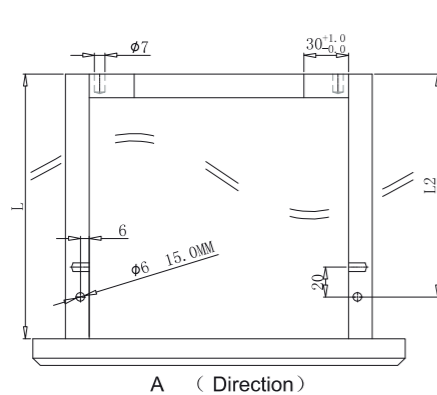
Function	Push-to-open
Extension	Partial Extension
Locking Accessory	Locking Pins
Available Sizes	250 mm - 550 mm
Load Capacity	Up to 25 kg
Thickness	1.5 x 1.5 mm
Material	Galvanized Steel
Packaging	10 Sets per Carton

Installation Dimensions

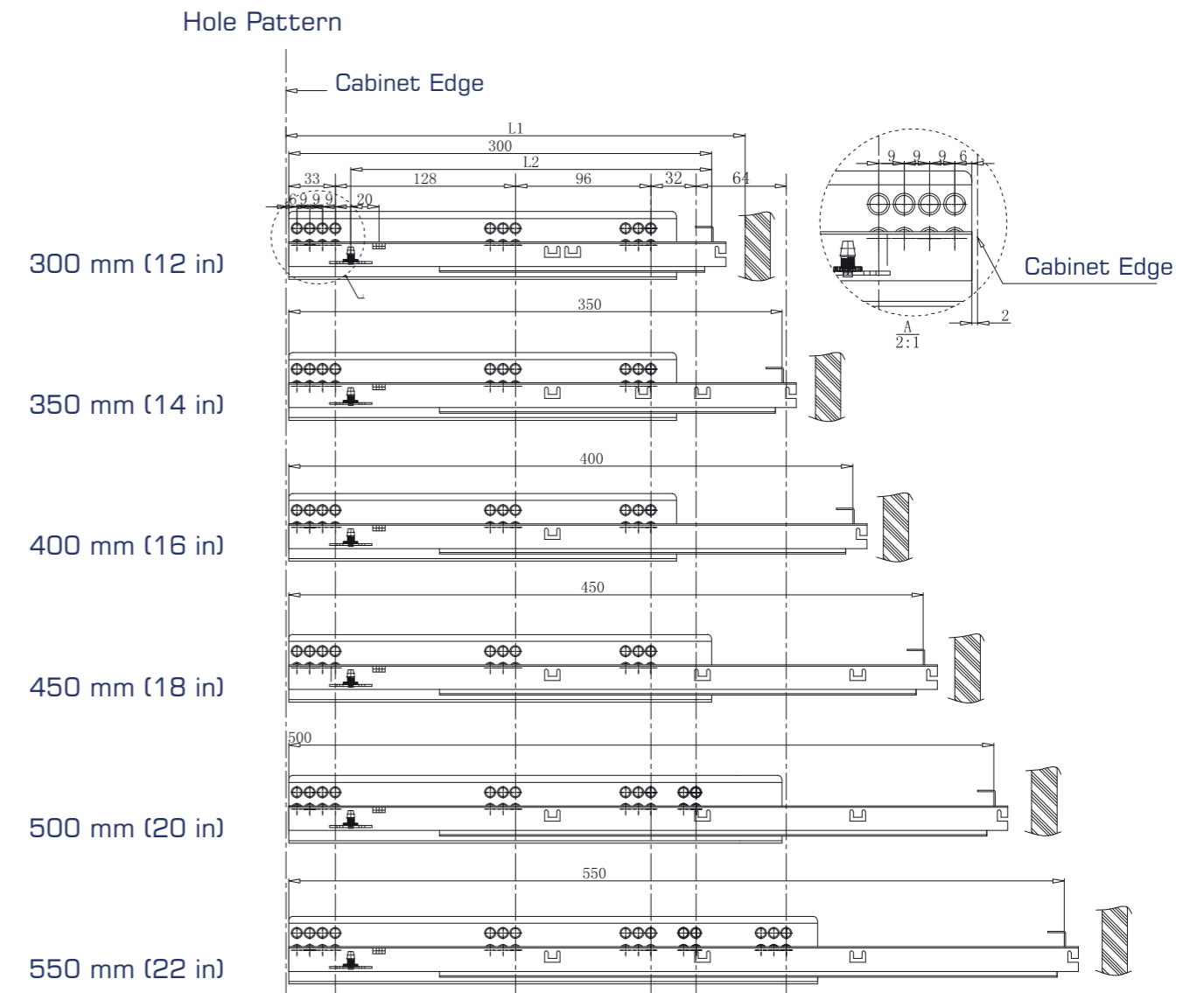
SKW = Internal Drawer Width
LW = Internal Cabinet Width



Drawer Sine and Boring



Slide Mounting Holes



Measurements Table

Item No	Slide Length (L)	Minimum Cabinet Inner Depth (L1)	Packaging (sets/carton)	
PTS0250W	10"	250 mm	269 mm	10
PTS0300W	12"	300 mm	319 mm	10
PTS0350W	14"	350 mm	369 mm	10
PTS0400W	16"	400 mm	419 mm	10
PTS0450W	18"	450 mm	469 mm	10
PTS0500W	20"	500 mm	519 mm	10
PTS0550W	22"	550 mm	569 mm	10

Partial Extension Concealed Slide (with Locking Device)



Options

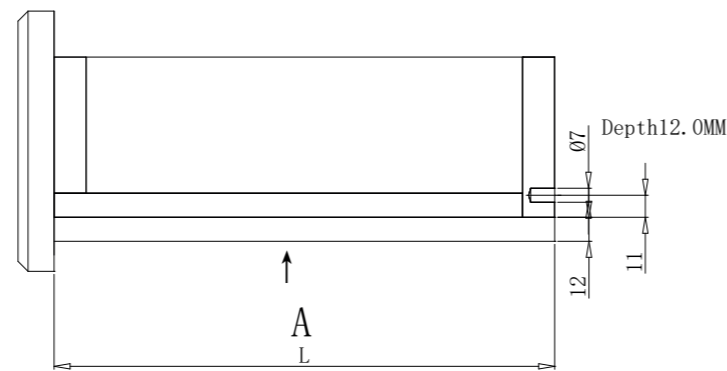
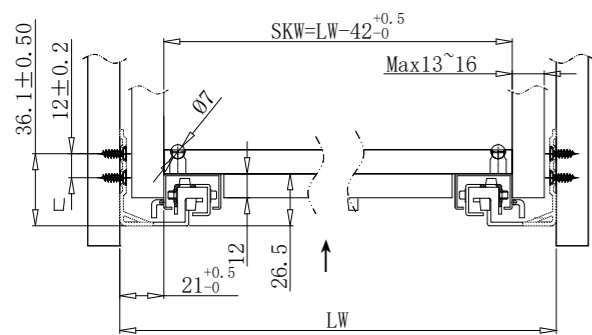
- Available with optional elongated holes.

Specification

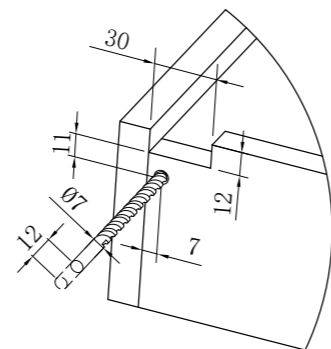
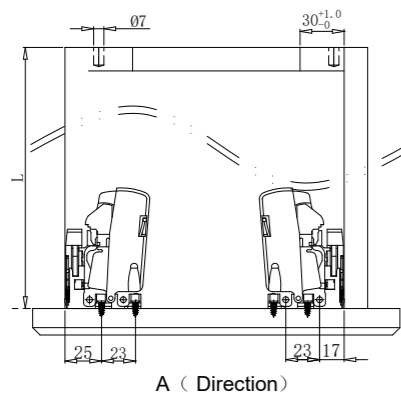
Function	Regular
Extension	Partial Extension
Locking Accessory	Plastic Locking Brackets
Available Sizes	250 mm - 550 mm
Load Capacity	Up to 25 kg
Thickness	1.5 x 1.5 mm
Material	Galvanized Steel
Packaging	10 Sets per Carton

Installation Dimensions

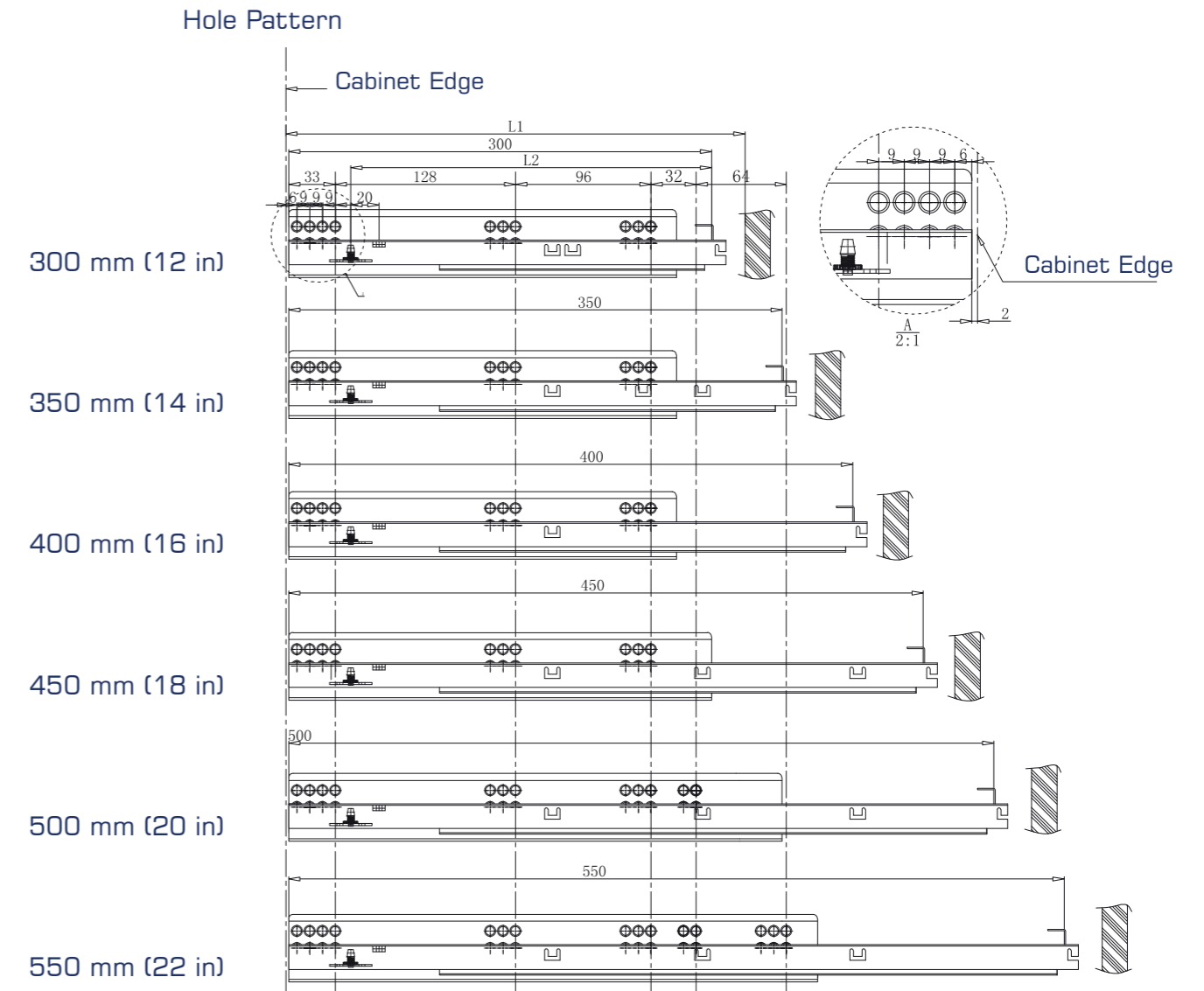
SKW = Internal Drawer Width
LW = Internal Cabinet Width



Drawer Sine and Boring



Slide Mounting Holes



Measurements Table

Item No	Slide Length (L)	Minimum Cabinet Inner Depth (L1)	Packaging (sets/carton)	
PCS0250P	10"	250 mm	269 mm	10
PCS0300P	12"	300 mm	319 mm	10
PCS0350P	14"	350 mm	369 mm	10
PCS0400P	16"	400 mm	419 mm	10
PCS0450P	18"	450 mm	469 mm	10
PCS0500P	20"	500 mm	519 mm	10
PCS0550P	22"	550 mm	569 mm	10

Heavy Duty Ball Bearing Drawer Guides

These 76 mm and 53 mm profile drawer slides can carry up to almost 500 pounds (225 kg) and are perfect for storing heavy items such as tools and metal parts. They are available in a wide range of sizes up to 72" (180 cm). A truly industrial product.

45 mm Ball Bearing Drawer Guides

A reliable and affordable option. Wilroy 45 mm profile ball bearing drawer slides are designed for loads up to 100 pounds (45 kg). We offer a complete range of slides to fit any requirement at home or the office.

37 mm Ball Bearing Drawer Guides

Wilroy range of 37 mm ball bearing drawer slides are designed for loads up to 66 pounds (30 kg).

35 mm Ball Bearing Drawer Guides

Wilroy range of 35 mm ball bearing drawer slides are designed for loads up to 55 pounds (25 kg).

27 mm Ball Bearing Drawer Guides

Wilroy range of 27 mm ball bearing drawer slides are designed for loads up to 33 pounds (15 kg).



HS SERIES

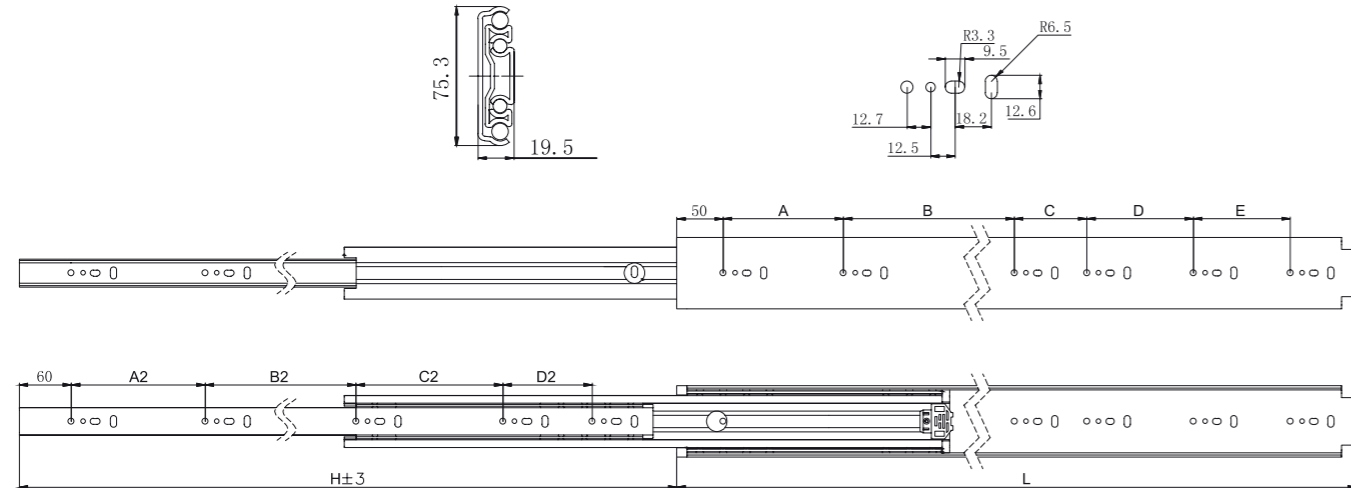
Heavy Duty Full Extension Ball Bearing Drawer Slide (76 mm Profile)



Specification

Function	Regular	Thickness	2.5 x 2.2 x 2.5 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	300 mm - 1800 mm	Finish	Galvanized or Black
Load Capacity	Up to 225 kg	Packaging	3 Sets per Carton
Slide Width	76 mm		
Assembly Height	19.8 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	A2 (mm)	B2 (mm)	C2 (mm)	D2 (mm)
HSF0300R	32	192								
HSF0350R	50	224					160			
HSF0400R	50	224					224			
HSF0450R	50	192	128				256			
HSF0500R	50	224	160				288			
HSF0550R	50	256	160				352			
HSF0600R	50	256	192				288	128		
HSF0650R	50	128	192	192			320	160		
HSF0700R	50	160	192	192			128	224	160	
HSF0750R	50	160	224	224			160	256	160	
HSF0800R	50	192	224	224			160	256	192	
HSF0850R	50	192	256	224			160	320	192	
HSF0900R	50	192	288	224			160	352	192	
HSF0950R	50	192	288	256			160	352	256	
HSF1000R	50	192	256	224	160		192	352	256	
HSF1050R	50	192	320	224	160		192	352	288	
HSF1100R	50	224	320	224	192		192	352	288	
HSF1150R	50	224	320	224	224		224	352	320	
HSF1200R	50	224	320	256	224		224	384	320	
HSF1250R	50	224	320	256	256		224	384	352	
HSF1300R	50	224	352	256	256		256	384	352	
HSF1350R	50	256	352	256	288		256	384	384	
HSF1400R	50	256	384	288	288		288	416	384	
HSF1450R	50	320	352	288	320		320	448	384	
HSF1500R	50	320	384	288	320		320	480	416	
HSF1550R	50	320	416	288	384		320	512	544	
HSF1600R	50	352	416	320	416		352	512	576	
HSF1650R	50	352	416	384	384		384	512	576	
HSF1700R	50	288	352	384	256	288	320	352	384	416
HSF1750R	50	288	352	384	288	320	320	352	416	448
HSF1800R	50	288	352	320	384	320	320	384	448	480

HF SERIES

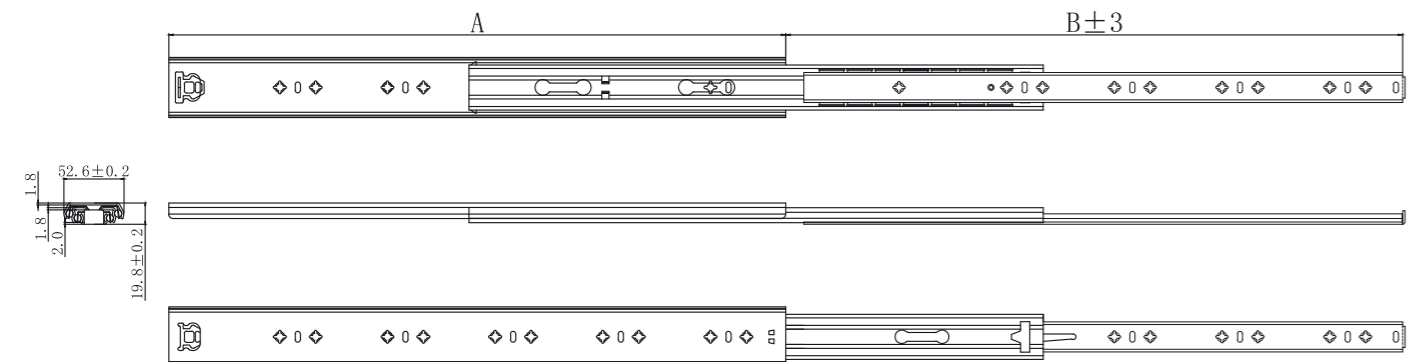
Heavy Duty Full Extension Ball Bearing Drawer Slide (53 mm Profile)



Specification

Function	Regular	Thickness	2.0 x 2.0 x 2.0 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	300 mm - 850 mm	Finish	Galvanized or Black
Load Capacity	Up to 100 kg	Packaging	6 Sets per Carton
Slide Width	53 mm		
Assembly Height	19.8 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)	M (mm)
HFF0300R	300	300	96	192				224					
HFF0350R	350	350	96	192				256					
HFF0400R	400	400	96	192	288			192	320				
HFF0450R	450	450	96	192	288			192	320				
HFF0500R	500	500	96	192	288	384		192	320	416			
HFF0550R	550	550	96	192	288	384		192	320	416	512		
HFF0600R	600	600	96	192	288	384	480	192	320	416	512	576	
HFF0650R	650	650	96	192	288	384	480	192	320	416	512	576	
HFF0700R	700	700	96	192	288	384	480	192	320	416	512	576	
HFF0750R	750	750	96	192	288	384	480	192	320	416	512	576	
HFF0800R	800	800	96	192	288	384	480	192	320	416	512	576	670
HFF0850R	850	850	96	192	288	384	480	192	320	416	512	576	734

BX SERIES

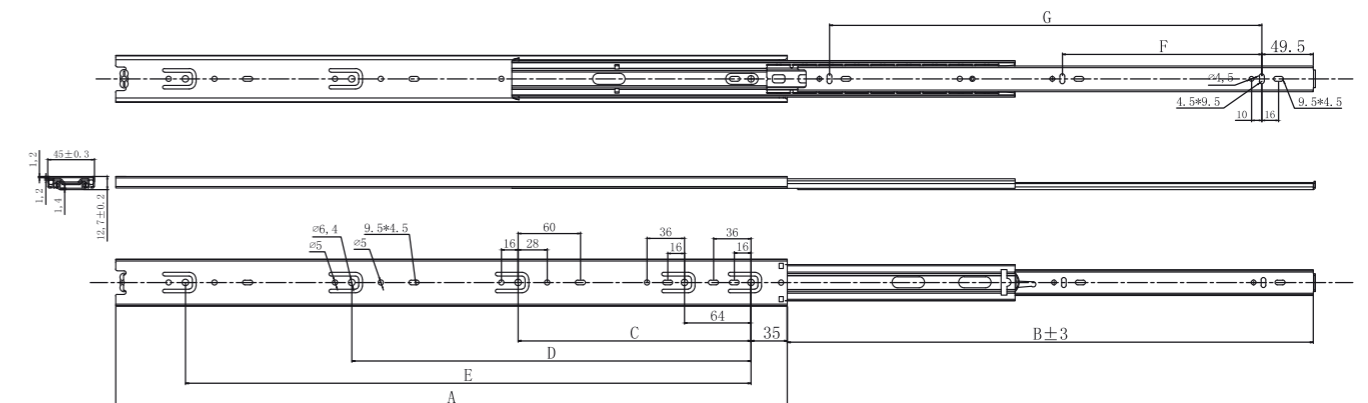
Solid Stainless Steel Full Extension Ball Bearing Drawer Slide



Specification

Function	Regular	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	250 mm - 600 mm	Finish	Stainless Steel
Load Capacity	Up to 45 kg	Packaging	15 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
BXF0250R	250	250				154
BXF0300R	300	300	160			192
BXF0350R	350	350	192		128	256
BXF0400R	400	400	224		160	288
BXF0450R	450	450	256		160	352
BXF0500R	500	500	256	352	192	384
BXF0550R	550	550	256	384	224	448
BXF0600R	600	600	256	416	224	480

BP SERIES

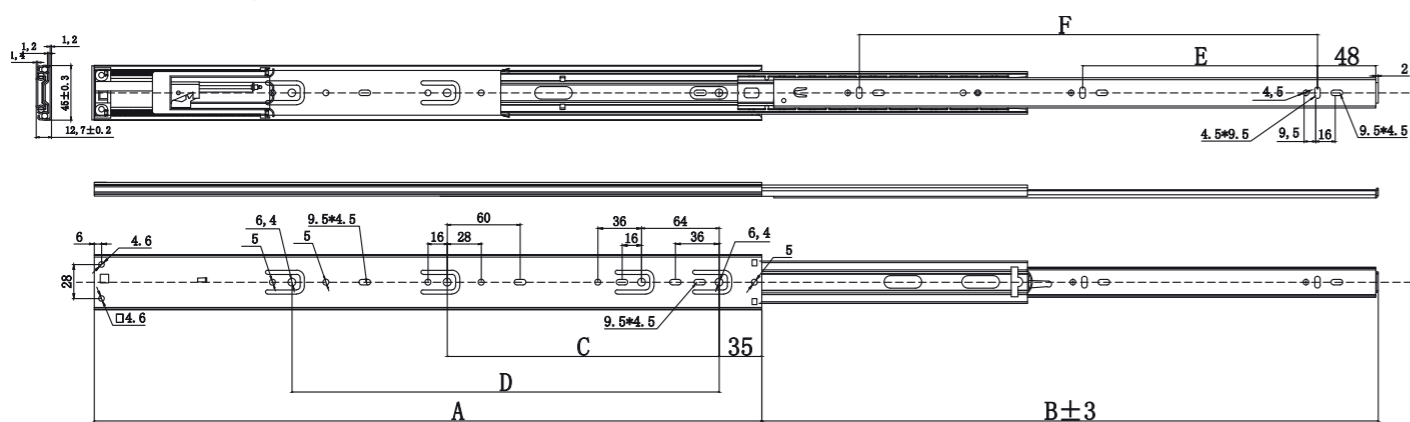
Soft Closing Full Extension Ball Bearing Drawer Slide



Specification

Function	Soft Closing	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	250 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 45 kg	Packaging	15 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
BPF0250S	250	250				154
BPF0300S	300	300	160			192
BPF0350S	350	350	192		128	256
BPF0400S	400	400	224		160	288
BPF0450S	450	450	256		160	352
BPF0500S	500	500	256	352	192	384
BPF0550S	550	550	256	384	224	448
BPF0600S	600	600	256	416	224	480

BT SERIES

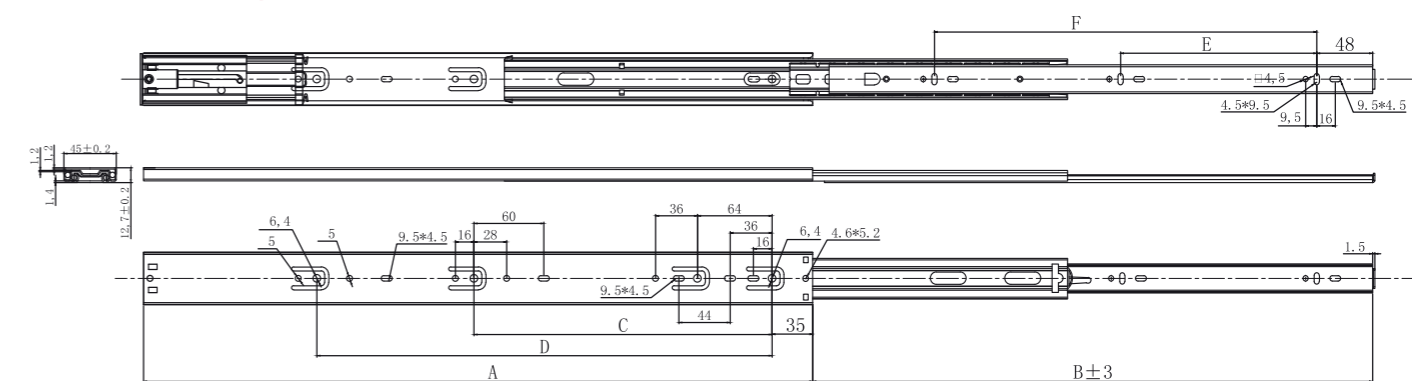
Push-to-Open Full Extension Ball Bearing Drawer Slide



Specification

Function	Push-to-open	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	300 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 45 kg	Packaging	15 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
BTFO300P	300	300	128			192
BTFO350P	350	350	192		128	256
BTFO400P	400	400	224		160	288
BTFO450P	450	450	256		160	352
BTFO500P	500	500	320		192	384
BTFO550P	550	550	256	384	224	448
BTFO600P	600	600	256	416	224	480

BF SERIES

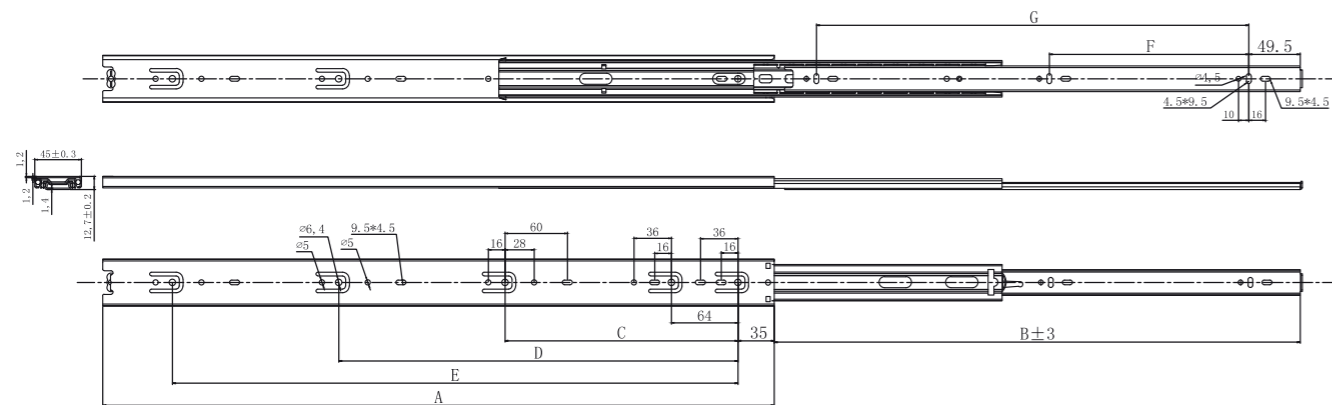
Full Extension Ball Bearing Drawer Slide



Specification

Function	Regular	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	200 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 45 kg	Packaging	15 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
BFF0200R	200	200					128
BFF0250R	250	250	160				160
BFF0300R	300	300	224			96	224
BFF0350R	350	350	224			128	256
BFF0400R	400	400	224	320		128	288
BFF0450R	450	450	224	352		160	352
BFF0500R	500	500	224	352		192	384
BFF0550R	550	550	224	352	448	224	448
BFF0600R	600	600	224	352	448	224	480

BL SERIES

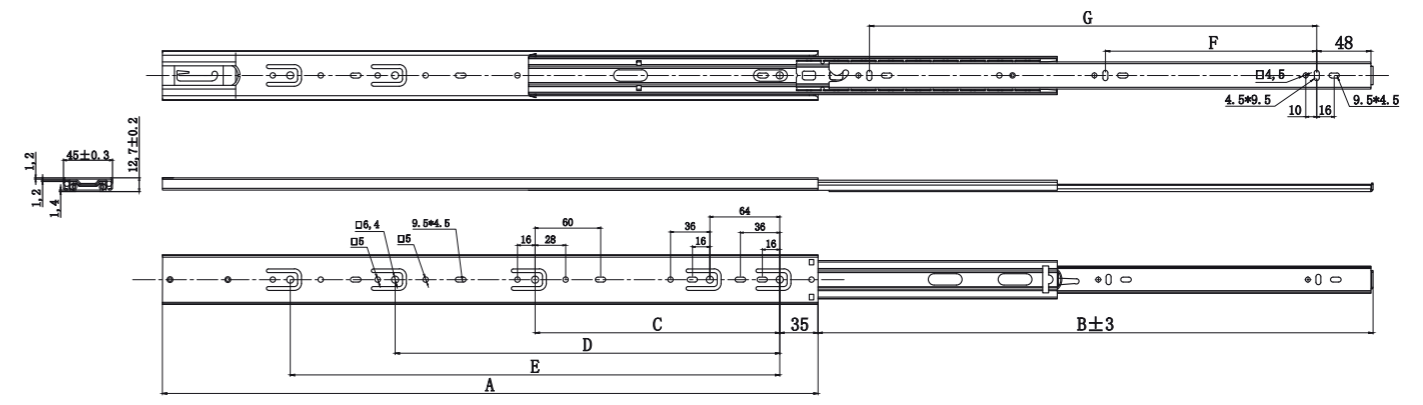
Self Closing Full Extension Ball Bearing Drawer Slide



Specification

Function	Self Closing	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	300 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 45 kg	Packaging	15 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
BLF0300L	300	300	160			192	
BLF0350L	350	350	224			128	256
BLF0400L	400	400	224			128	288
BLF0450L	450	450	224	320		160	352
BLF0500L	500	500	224	352		192	384
BLF0550L	550	550	224	352		224	448
BLF0600L	600	600	224	352	448	224	480

BD SERIES

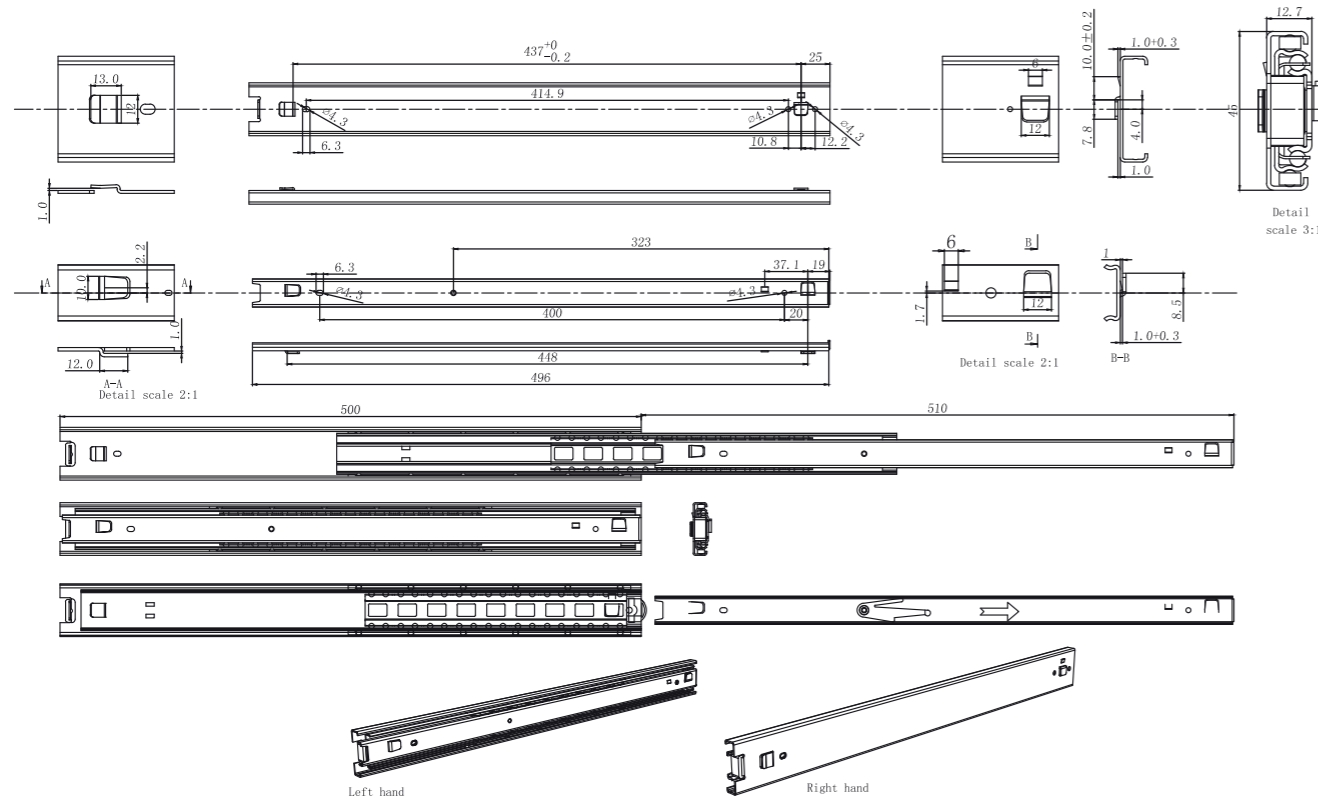
Full Extension Ball Bearing Drawer Slide with Bayonets (for Office Cabinets)



Specification

Function	Regular	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	450 mm - 550 mm	Finish	Galvanized or Black
Load Capacity	Up to 45 kg	Packaging	15 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design

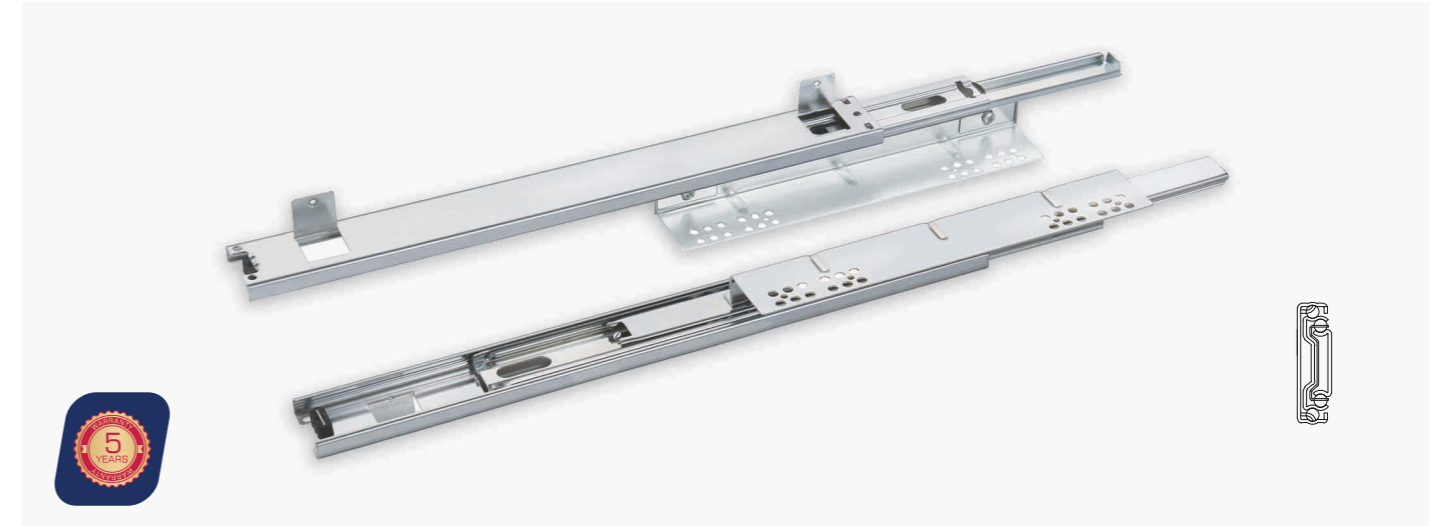


Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
BDF0450R	450	460	412	390	423	375
BDF0500R	500	510	437	415	448	400
BDF0550R	550	560	462	440	473	425

BU SERIES

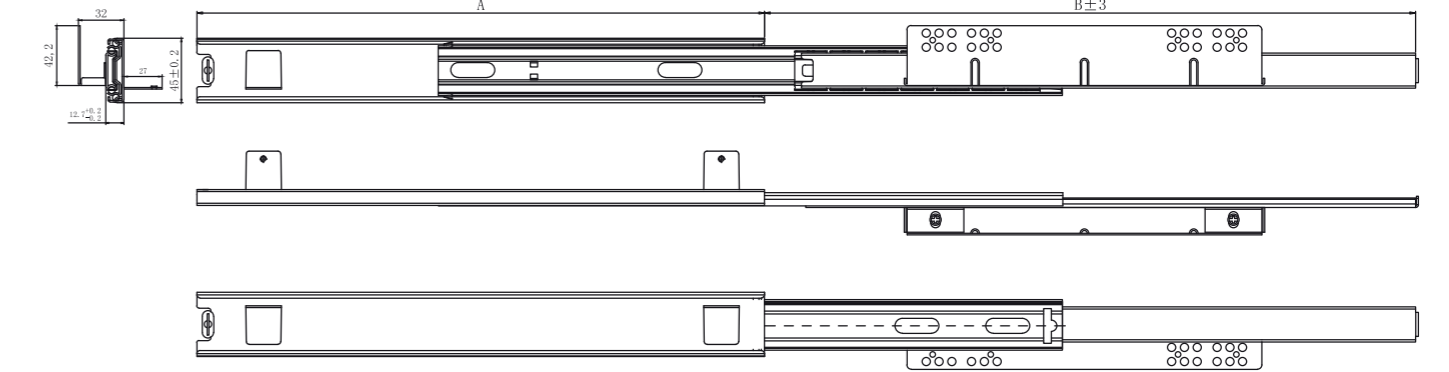
Full Extension Ball Bearing Drawer Slide with U-Brackets (for Wire Baskets)



Specification

Function	Regular	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	400 mm - 500 mm	Finish	Galvanized or Black
Load Capacity	Up to 45 kg	Packaging	12 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design

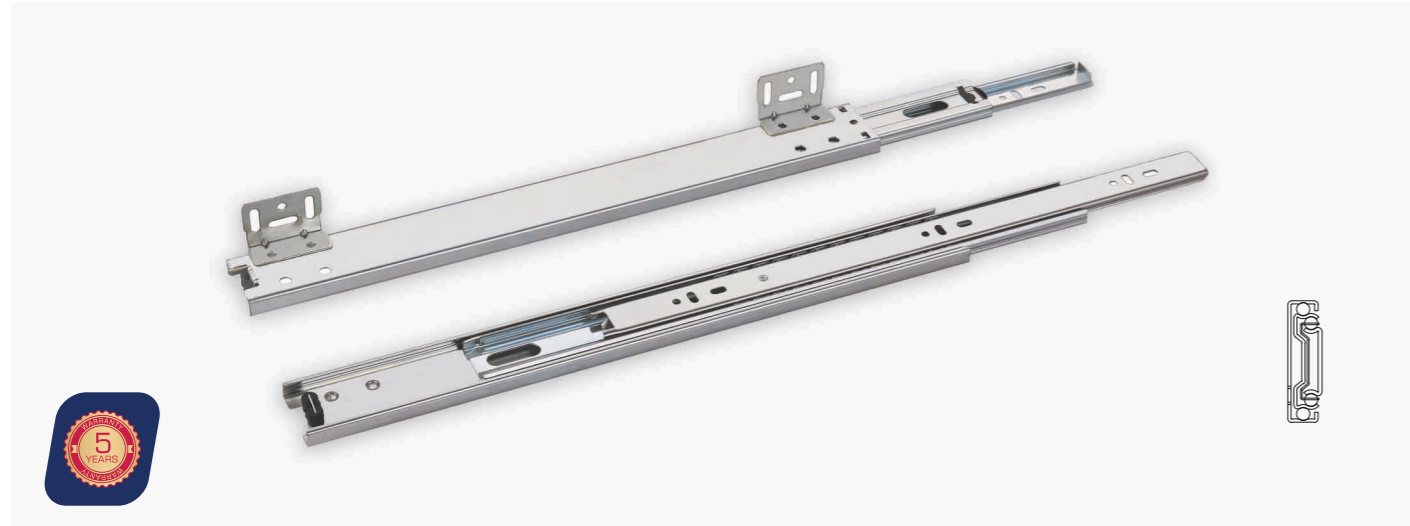


Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)
BUF0400R	400	400	254	48
BUF0450R	450	450	304	98
BUF0500R	500	500	354	138

BN SERIES

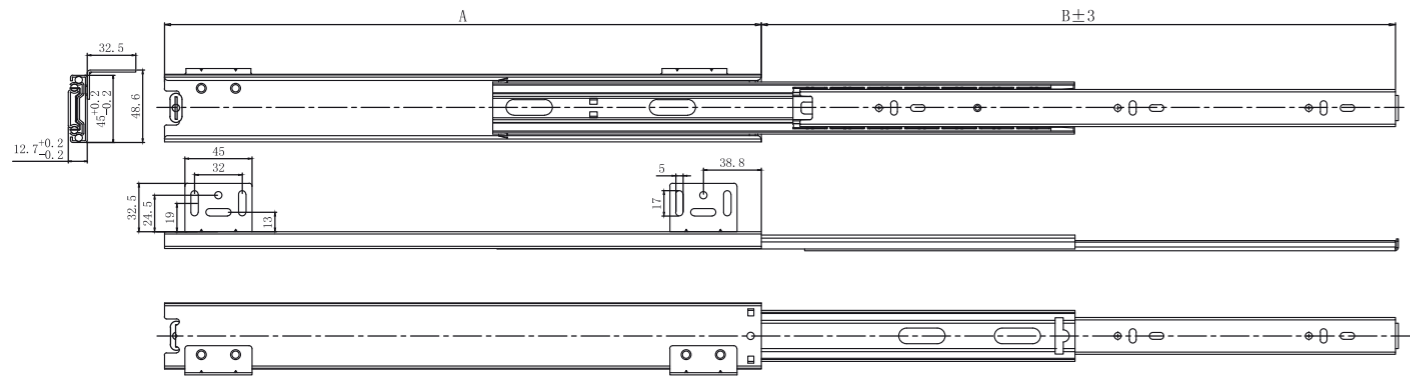
Full Extension Ball Bearing Drawer Slide with Mounting Tabs (for Wire Baskets)



Specification

Function	Regular	Thickness	1.2 x 1.2 x 1.4 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	300 mm - 450 mm	Finish	Galvanized or Black
Load Capacity	Up to 45 kg	Packaging	12 Sets per Carton
Slide Width	45 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
BNF0300R	300	300	250	96	224
BNF0350R	350	350	275	96	224
BNF0400R	400	400	300	128	288
BNF0450R	450	450	325	160	352

LS SERIES

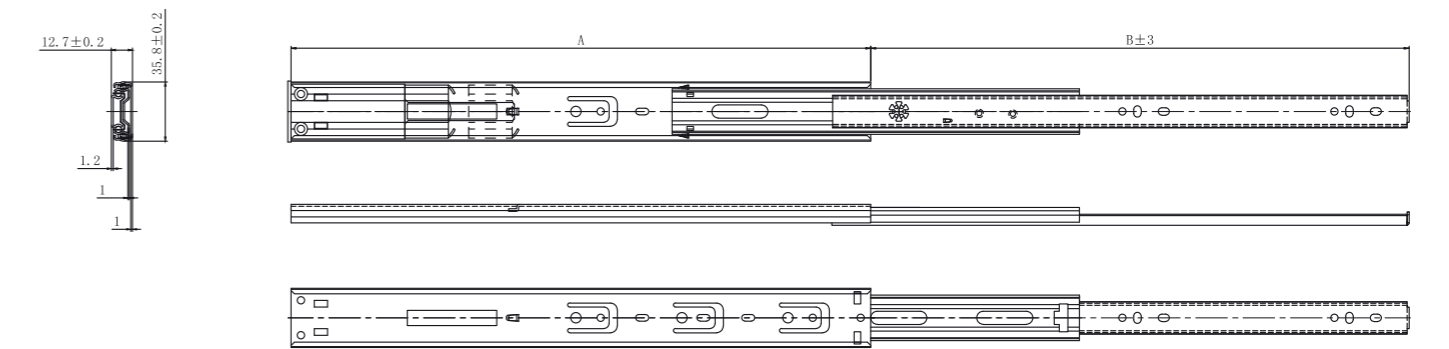
Soft Closing Full Extension Ball Bearing Drawer Slide (37 mm Profile)



Specification

Function	Soft Closing	Thickness	1.2 x 1.2 x 1.2 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	300 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 25 kg	Packaging	15 Sets per Carton
Slide Width	37 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
LSF0300S	300	300	160			96	224
LSF0350S	350	350	224			128	256
LSF0400S	400	400	224			160	320
LSF0450S	450	450	224	320		160	352
LSF0500S	500	500	224	352		192	384
LSF0550S	550	550	224	352		224	448
LSF0600S	600	600	224	352	448	224	512

LF SERIES

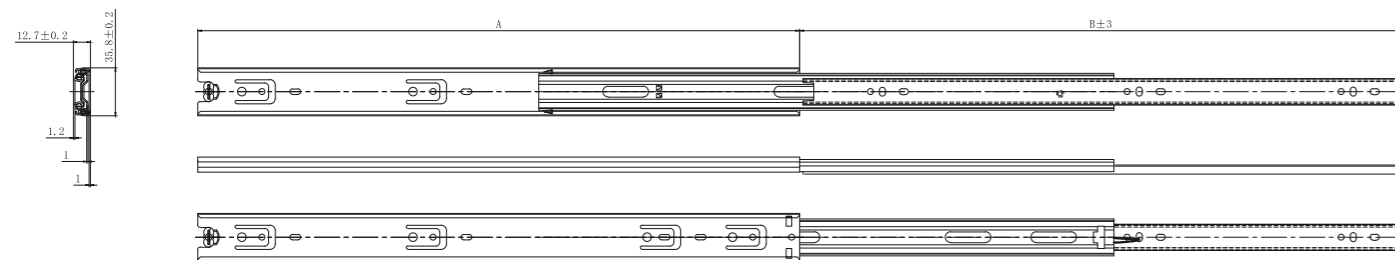
Full Extension Ball Bearing Drawer Slide (37 mm Profile)



Specification

Function	Regular	Thickness	1.2 x 1.2 x 1.2 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	250 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 30 kg	Packaging	15 Sets per Carton
Slide Width	37 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
LFF0250R	250	250	160				192
LFF0300R	300	300	224			96	224
LFF0350R	350	350	224			128	256
LFF0400R	400	400	224	320		160	320
LFF0450R	450	450	224	352		160	352
LFF0500R	500	500	224	352		192	384
LFF0550R	550	550	224	352	448	224	448
LFF0600R	600	600	224	352	448	224	480

LT SERIES

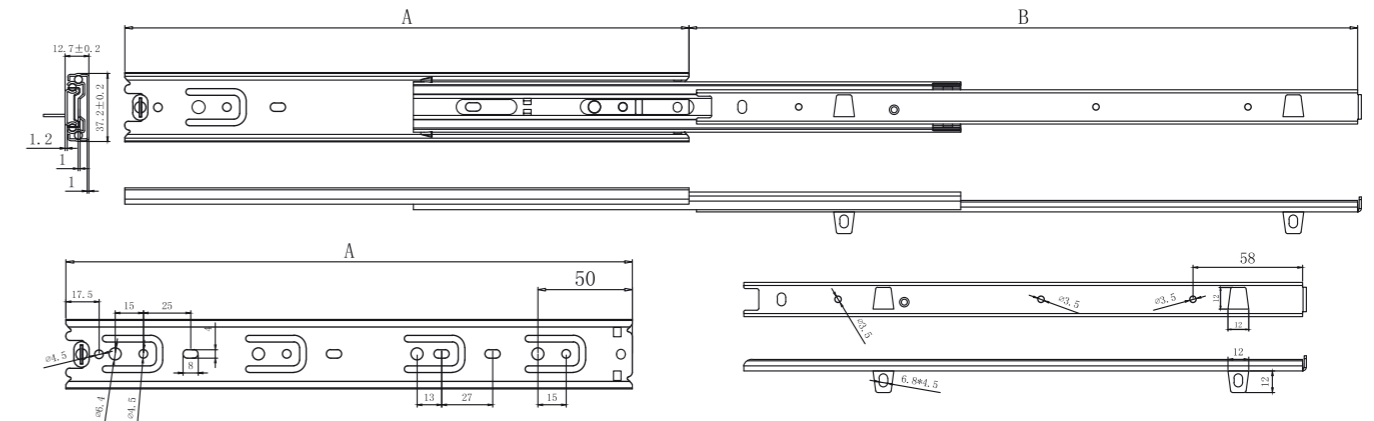
Full Extension Ball Bearing Drawer Slide with Mounting Tabs (37 mm Profile)



Specification

Function	Regular	Thickness	1.2 x 1.2 x 1.2 mm
Extension	Full Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	250 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 30 kg	Packaging	15 Sets per Carton
Slide Width	37 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
LTF0250R	250	250	160				192
LTF0300R	300	300	224			96	224
LTF0350R	350	350	224			128	256
LTF0400R	400	400	224	320		160	320
LTF0450R	450	450	224	352		160	352
LTF0500R	500	500	224	352		192	384
LTF0550R	550	550	224	352	448	224	448
LTF0600R	600	600	224	352	448	224	480

TP SERIES

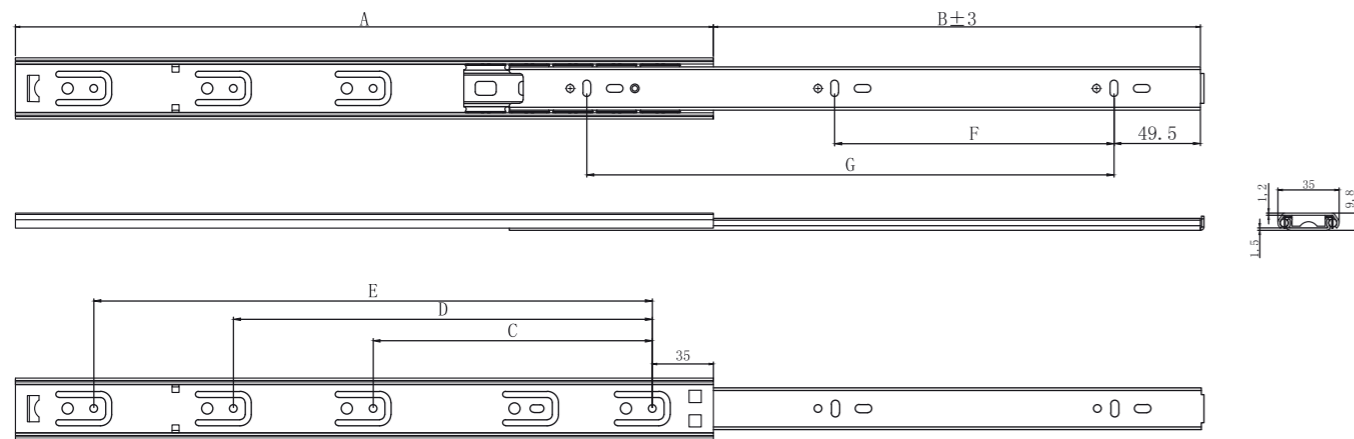
Partial Extension Ball Bearing Drawer Slide (35 mm Profile)



Specification

Function	Regular	Thickness	1.4 x 1.4 mm
Extension	Partial Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	250 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 25 kg	Packaging	15 Sets per Carton
Slide Width	35 mm		
Assembly Height	9.8 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
TPS0250R	250	156	160			176	
TPS0300R	300	194	224			96	224
TPS0350R	350	323	256			128	256
TPS0400R	400	270	224	320		128	320
TPS0450R	450	308	224	352		160	352
TPS0500R	500	346	224	320	416	192	416
TPS0550R	550	384	224	352	448	224	448
TPS0600R	600	422	224	352	480	256	512

TW SERIES

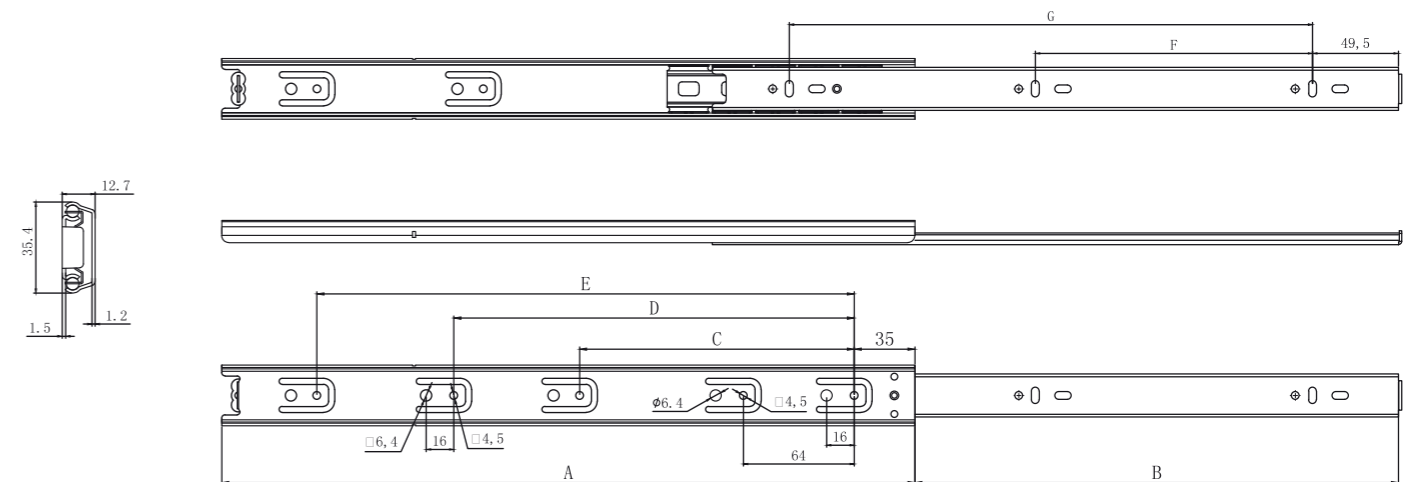
Partial Extension Ball Bearing Drawer Slide (35 mm Profile)



Specification

Function	Regular	Thickness	1.5 x 1.5 mm
Extension	Partial Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	250 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 25 kg	Packaging	15 Sets per Carton
Slide Width	35 mm		
Assembly Height	12.7 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
TWS0250R	250	156	160				160
TWS0300R	300	194	224			96	224
TWS0350R	350	232	224			96	224
TWS0400R	400	270	224	320		128	288
TWS0450R	450	308	224	352		160	352
TWS0500R	500	346	224	352		192	384
TWS0550R	550	384	224	352	448	224	448
TWS0600R	600	422	224	352	448	224	480

TM SERIES

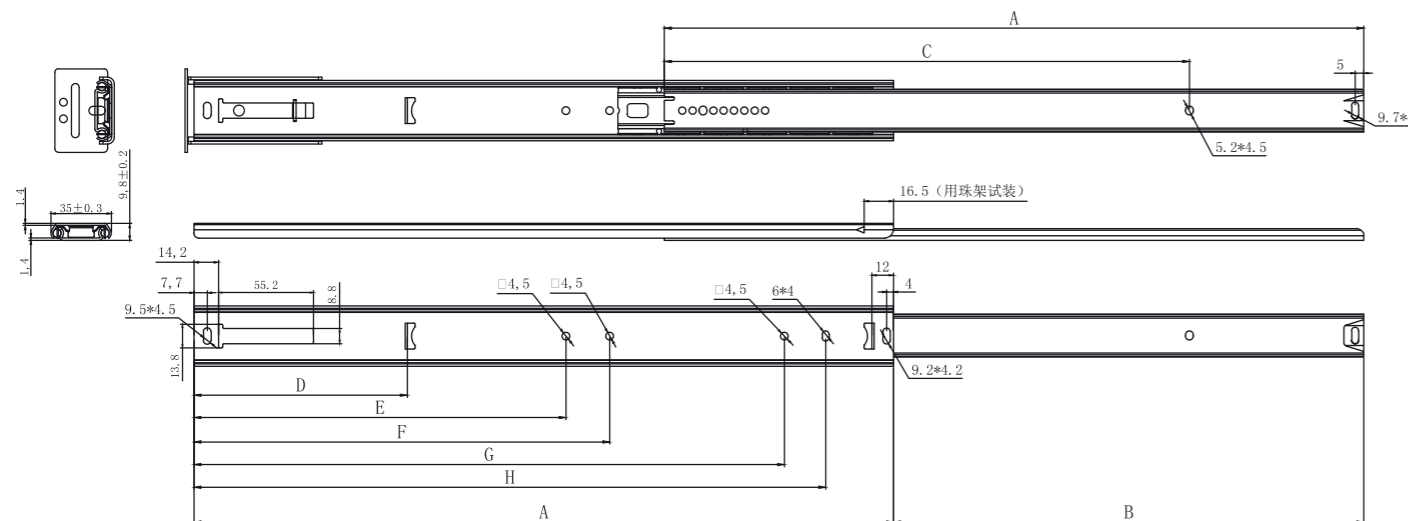
Partial Extension Ball Bearing Drawer Slide with Mounting Tabs (American Dimensions)



Specification

Function	Regular	Thickness	1.5 x 1.5 mm
Extension	Partial Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	305 mm - 610 mm	Finish	Galvanized or Black
Load Capacity	Up to 25 kg	Packaging	15 Sets per Carton
Slide Width	35 mm		
Assembly Height	9.8 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (in)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
TMS0300R	12	305	203.2	203.2	93	114.3	139.7	242.9	265.1
TMS0350R	14	356	247.6	254	120	165.1	190.5	292.8	315.9
TMS0400R	16	406	273.1	304.8	132	215.9	241.3	342.7	366.7
TMS0450R	18	457	313.8	355.6	158	266.7	292.1	392.5	417.5
TMS0500R	20	508	384.2	406.4	180	317.5	342.9	442.4	468.3
TMS0550R	22	559	393.7	457.2	175	368.3	393.7	492.3	519.1
TMS0600R	24	610	450.8	508	198	419.1	444.5	542.2	569.9

TD SERIES

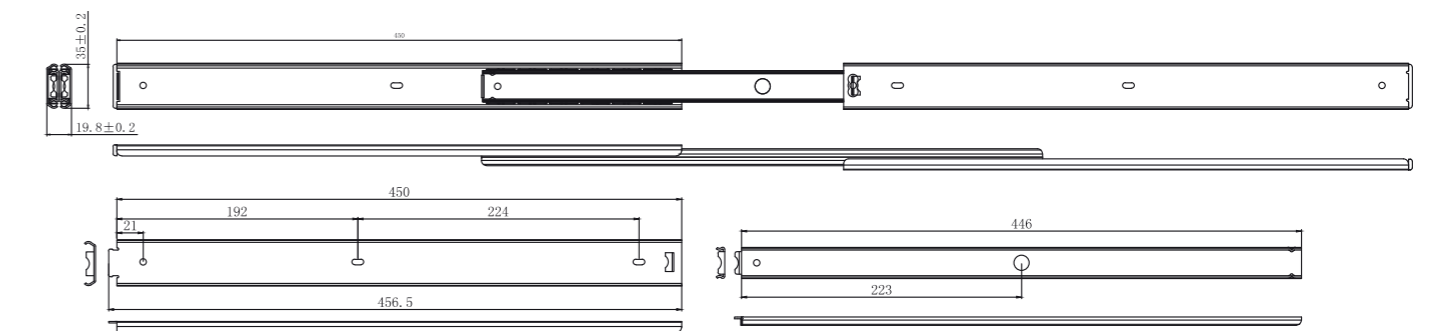
Two-way Travel Double Deck Ball Bearing Drawer Slide (35 mm Profile)



Specification

Function	Two-way Travel	Thickness	1.2 x 1.2 x 1.2 mm
Extension	NONE	Release	Non-Separable: Runner and ball cage form a single unit.
Available Sizes	300 mm - 400 mm	Finish	Zinc Plated
Load Capacity	Up to 25 kg	Packaging	15 Sets per Carton
Slide Width	35 mm		
Assembly Height	19.6 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)
TDN0300T	300	650	216
TDN0350T	350	700	266
TDN0400T	400	750	316

WT SERIES

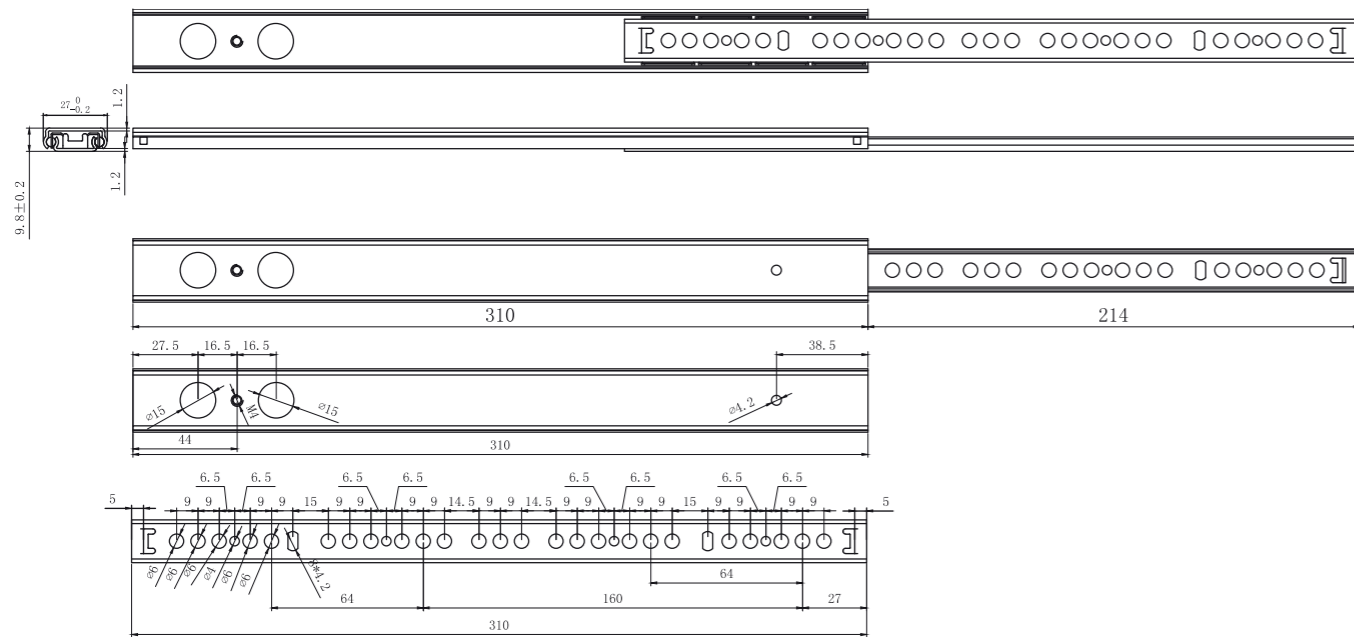
Two-way Travel Ball Bearing Drawer Slide (27 mm Profile)



Specification

Function	Two-way Travel	Thickness	1.2 x 1.2 mm
Extension	NONE	Release	Non-Separable: Runner and ball cage form a single unit.
Available Sizes	300 mm - 450 mm	Finish	Zinc Plated
Load Capacity	Up to 15 kg	Packaging	25 Sets per Carton
Slide Width	27 mm		
Assembly Height	9.8 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
WTN0300T	300	220	96	192	256	192
WTN0350T	350	246	101	224	288	256
WTN0400T	400	272	118	224	320	288
WTN0450T	450	298	118	256	384	320

WP SERIES

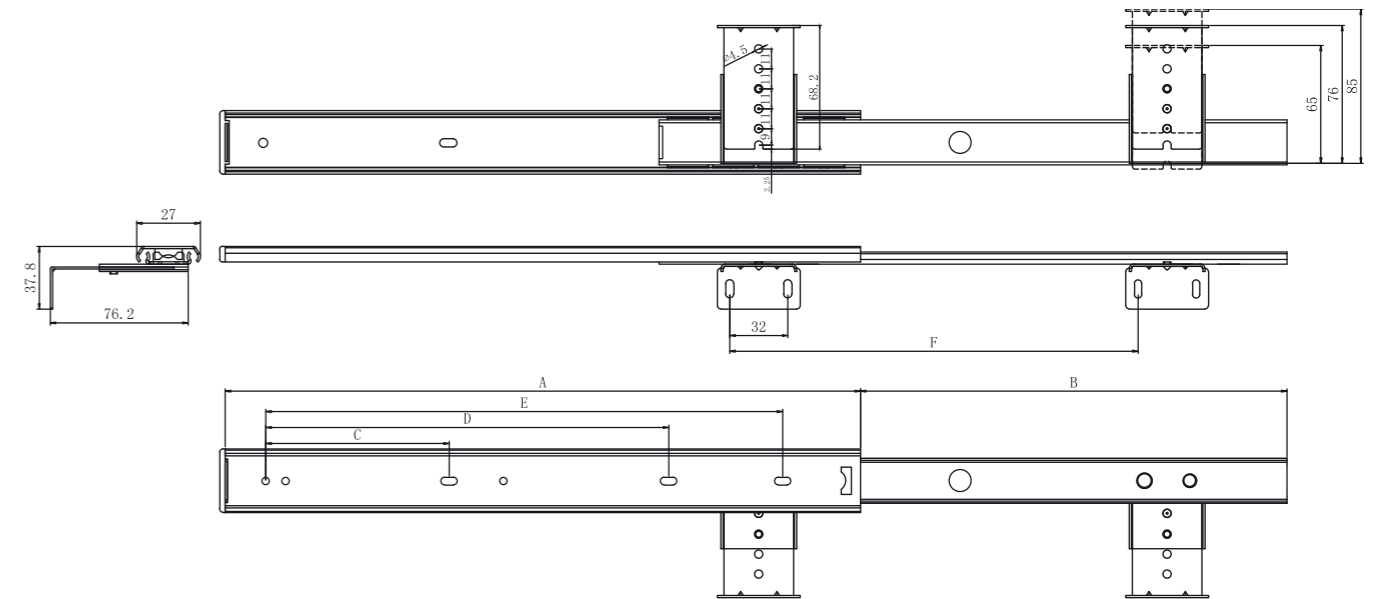
Partial Extension Ball Bearing Drawer Slide (27 mm Profile)



Specification

Function	Regular	Thickness	1.2 x 1.2 mm
Extension	Partial Extension	Release	Separable: Equipped with a release lever allowing for easy removal and return of drawer.
Available Sizes	250 mm - 600 mm	Finish	Galvanized or Black
Load Capacity	Up to 15 kg	Packaging	25 Sets per Carton
Slide Width	27 mm		
Assembly Height	9.8 mm ± 0.2		

Technical Design



Measurement Table

Item No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
WPS0250R	250	177	128		192	
WPS0300R	300	188	128	224	128	224
WPS0350R	350	247	128	256	128	288
WPS0400R	400	282	128	288	128	320
WPS0450R	450	317	160	320	160	352
WPS0500R	500	353	192	416	192	416
WPS0550R	550	390	224	448	224	448
WPS0600R	600	426	256	512	256	512

Lined writing area for notes on page 310.

Grid writing area for notes on page 311.

Lined writing area with horizontal ruling lines.

Graph area with a grid pattern.

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