

Architectural
Hardware Solutions
2020



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An ASSA ABLOY Group brand

ASSA ABLOY



Linus Yale Jr.
1821 - 1868

About Yale

Created in 1840, Yale is one of the oldest international brands in the world and probably the best-known name in the locking industry. The Yale history captures major innovations that have marked the evolution not just of Yale, but of the entire locking industry.

At Yale, we take great pride in our beginnings. Everything we are today, we owe to the inspirational ingenuity of Linus Yale Senior and Linus Yale Junior.

Yale is a part of the ASSA ABLOY Group. At ASSA ABLOY, we believe that freedom enriches people and that fear makes us poorer. To realize freedom, we must firstly feel safe and secure. That's why the ASSA ABLOY Group of companies is committed to creating high quality door opening solutions.



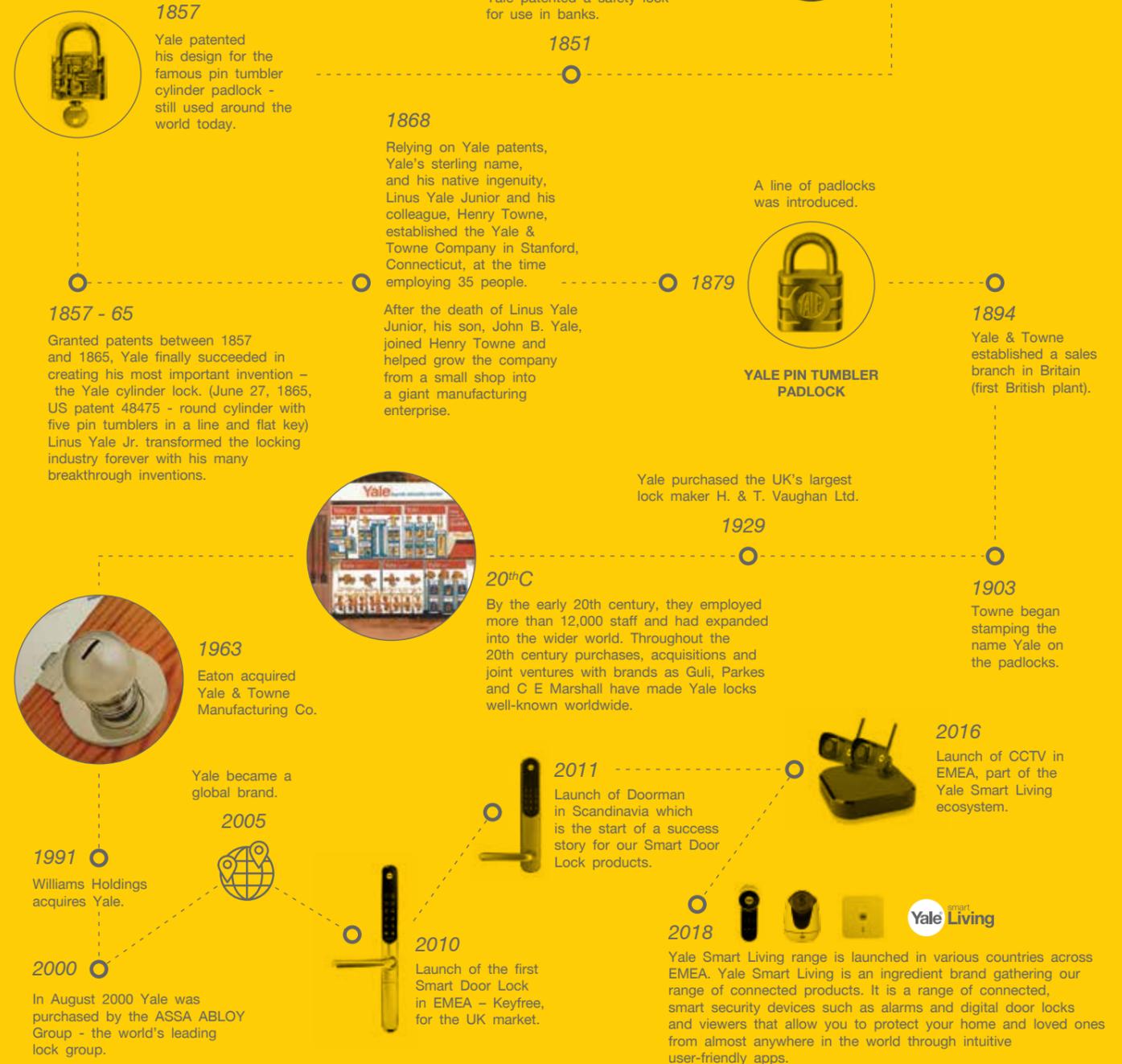
Scan to view
Yale timeline video

1840-2020 STILL PIONEERING

Yale is the brand behind locks of every design and function in over 125 countries, since more than 180 years.

All over the world, people are actively securing all they care about; their home, their family, their personal belongings or their business with the name they trust the most - "Yale". That's why we proudly say that Yale is "the world's favorite lock".

Our overall aim is to make our customers feel so safe and secure that they are free to enjoy their life fully, free of worries and free to choose what they want to do.



Yale in the Middle East

1940 - 2020

About Yale Middle East

Yale ME is the market leader in residential security solutions and offers an extensive range of products catering to the varied demands of the market. The products are handpicked from millions of product combinations globally, ranging from mechanical locks, smart products like alarms and cameras to door solutions and connected smart locks; and adapted to meet the diverse needs of consumers across the Middle East region. Yale first set foot in the Middle East with Lebanon in 1940, and today, has physical presence in 14 countries through some of the region's top distributors, and online presence with key ecommerce accounts.

Yale ME not only offers its customers high quality products, but also ensures they enjoy an excellent after-sales experience. With an expert team of professionals trained on the latest products and technology, and a warranty period of 1-10 years across its products, Yale aims to instill trust and a sense of security for its consumers across the region, as these values are at the core of what we do.

Our customer care team is always available at your service - please call our toll free number for any assistance on Yale products.

800 YALE (9253) (UAE)

00971 800 9253 (International)



Index

General Overview on Doors	1
<i>Choosing the right residential door</i>	3
<i>Doors under the scope of Yale ironmongery</i>	5
Know Your Door	7
<i>Weight calculation of a door</i>	8
<i>Door direction</i>	9
<i>Parts of a door</i>	10
Door Hinges	11
<i>Parts of hinges</i>	13
<i>Drilling pattern in hinges</i>	14
<i>Hinge mounting position recommendation</i>	15
<i>Adjusting the door weight</i>	16
<i>EN Standards for hinges</i>	17
<i>Certification for hinges</i>	20
<i>Product overview</i>	24
Door Closers	27
<i>General overview</i>	29
<i>EN Standards for door closers</i>	31
<i>Certification for door closers</i>	35
<i>Datasheet</i>	41
<i>Product overview</i>	42
Lever Handles	45
<i>General overview</i>	47
<i>EN Standards for lever handles</i>	49
<i>Product overview</i>	51
Panic Exit Devices	65
<i>EN Standards for PED</i>	67
<i>Datasheet</i>	70
<i>Product overview</i>	71
Mortice Locks	79
<i>General overview</i>	81
<i>EN Standards for mortice locks</i>	83
<i>Datasheet</i>	87
<i>Installation guide for mortice locks</i>	88
<i>Product overview</i>	89
Cylinders	95
<i>General overview</i>	97
<i>EN Standards for cylinders</i>	99
<i>Datasheet</i>	101
<i>Product overview</i>	102
Accessories	105
<i>Product overview</i>	107



Open the Door to Happiness

Doors are an integral part of our everyday lives. You open, close and pass through multiple doors every single day - when you enter or leave your home, your bedroom, or the office for instance. It's the first thing you come in contact with when you enter a home, and the last thing before you exit.

Yale offers you a diverse range of high quality residential door fittings that not only blend perfectly with your door, but aesthetically enhance it to create a lasting impression.



Choosing the Right Residential Door

Making decisions about your door hardware can be tricky - they should fit the needs of your home, while blending in with your interiors. Listed below are some of the most important factors you need to consider while choosing a residential door.

Right surface finish

—
What will the door inlay be?

—
Door leaf shape

—
Which material to use for the door frame?

Choosing appropriate door fittings

This is where Yale comes into the picture and makes it easy for you, offering you door hardware that is known for its excellent technology, usability and high-class design. Door fittings are crucial for the smooth functioning of the door in everyday use. Hinges ensure the doors are fitted well to the frame, door closers give you the privacy you need - and the most important part, the locks ensure the security of your home. The product range from Yale includes door hanging hardware like hinges, door closing fittings like door handles (available in different shapes and finishes), door locking solutions like mortice locks, rim locks, sliding door locks and cylinders (available in different grades of security), door accessories, and lastly, certified fire-rated door hardware for special application fire exit doors.

Doors under the Scope of Yale Ironmongery

1 Entrance Door

The entrance door is the most crucial door of every house – not only to leave a good first impression on your guests, but most importantly to provide security from break-ins. Yale offers a diverse range of high security locking solutions, including patented cylinders, fire-rated door hardware solutions and high performance door control devices.

2 Bedroom Door

We usually spend a lot of time and effort on customizing our bedrooms; then why not customize our bedroom door too? Take your pick from Yale's designer lever handles range that perfectly compliment your bedroom interiors and mortice locks that match your privacy needs. Yale also offers cylinders with knobs for convenience and easy access.

3 Balcony Door

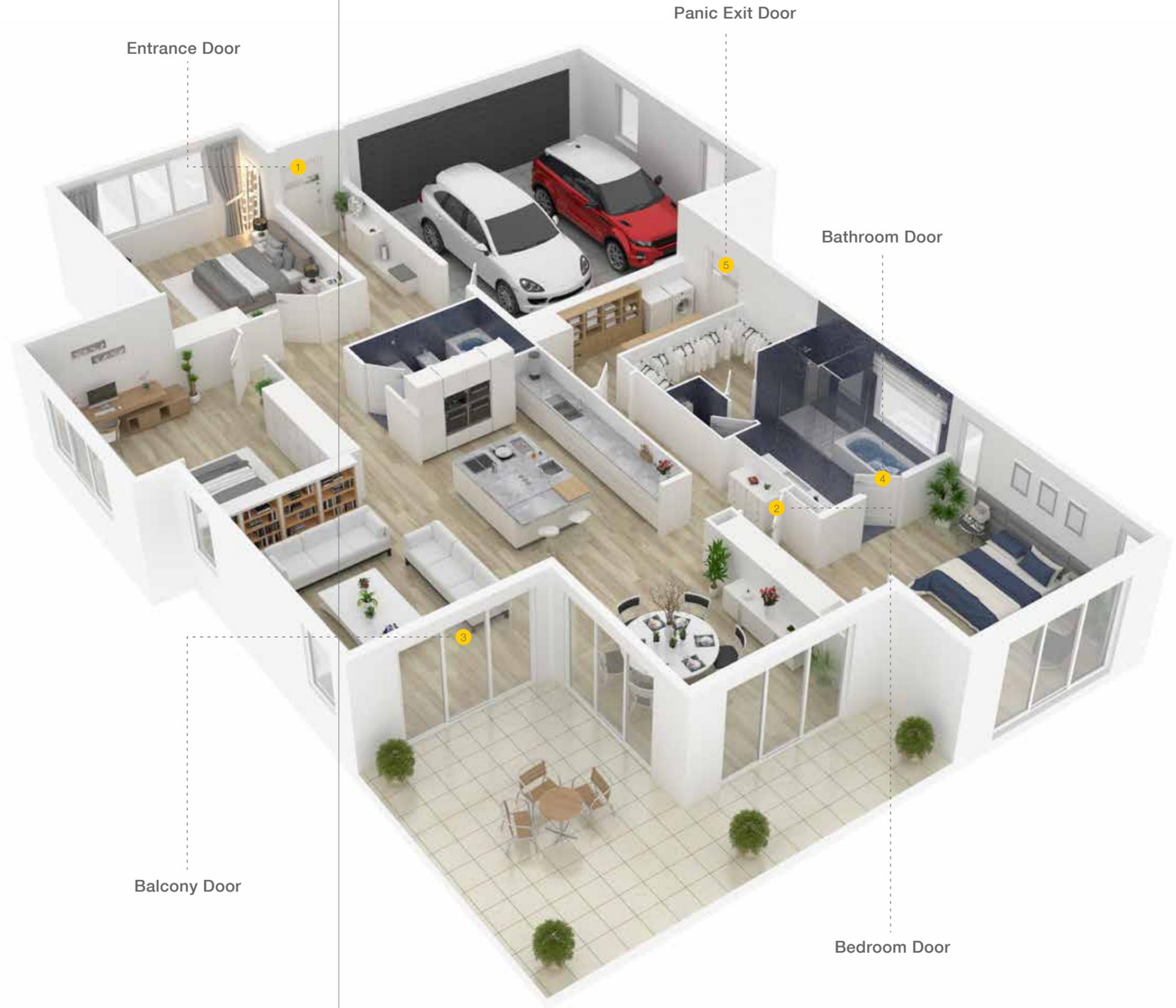
Yale offers a wide range of narrow mortice locks for glass framed balcony doors. The single cylinder from Yale is a smart way to lock the door from one side only (i.e. inside of the house) and leave no chance of security breach from the external side of the door.

4 Bathroom Door

Bathroom door locks play an important role, not only for providing privacy, but also in times when you need emergency access to the other side. Yale emergency locking cylinders give peace of mind to consumers who share their home with kids or elderly people as they can be easily opened with a coin or a screw driver in case they are unable to open the door from inside. Yale also offers other bathroom door accessories and SS 316 grade hinges for humidity & water resistance.

5 Panic Exit Door

In case of a fire or any other emergency situation, safe egress saves lives, and in such situations, panic exit devices play an important role in ensuring that people exit safely when needed. The PED range from Yale comprises of versatile solutions including single door and double door application, push bar and touch pad devices.

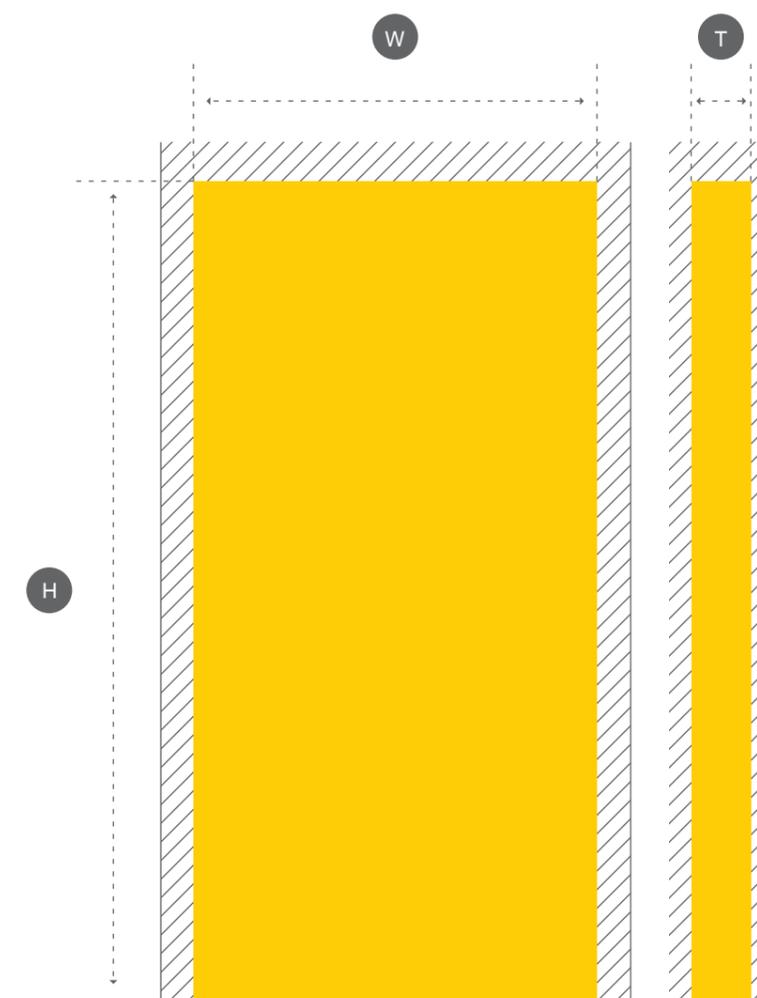


**Know
Your Door**

Weight Calculation of a Door

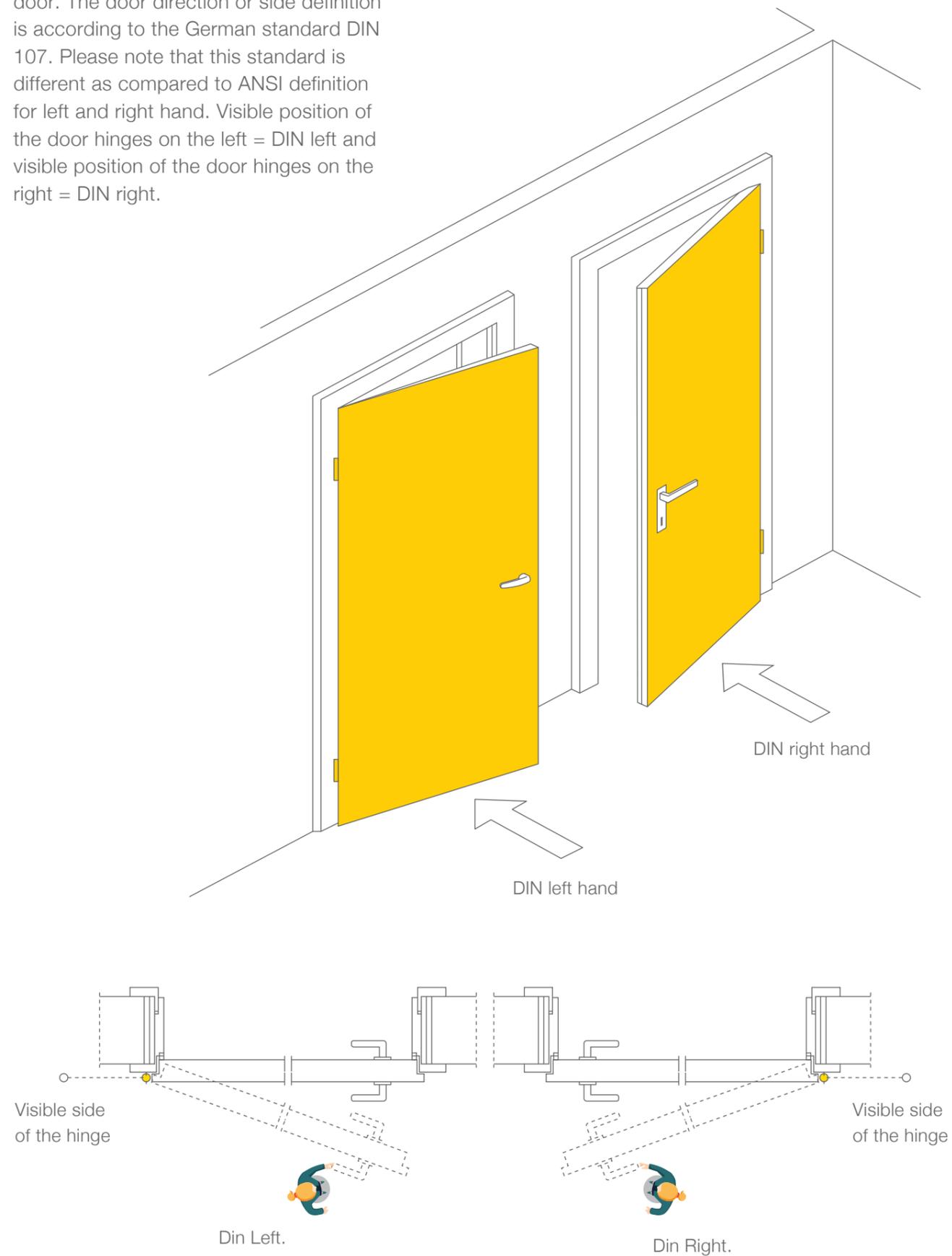
Measure Door Height (In Mtr.)	H
Measure Door Width (In Mtr.)	W
Measure Door Thickness (In Mtr.)	T
Select Door Density (m ³) As Per Material (F)	F
MDF – 800	
Particle Board – 700	
Plywood – 600	
Flush Door – 500	
Glass/Mirror – 2500	
Acrylic - 1200	

Calculate Door Weight (Kg.)
H x W x T x F



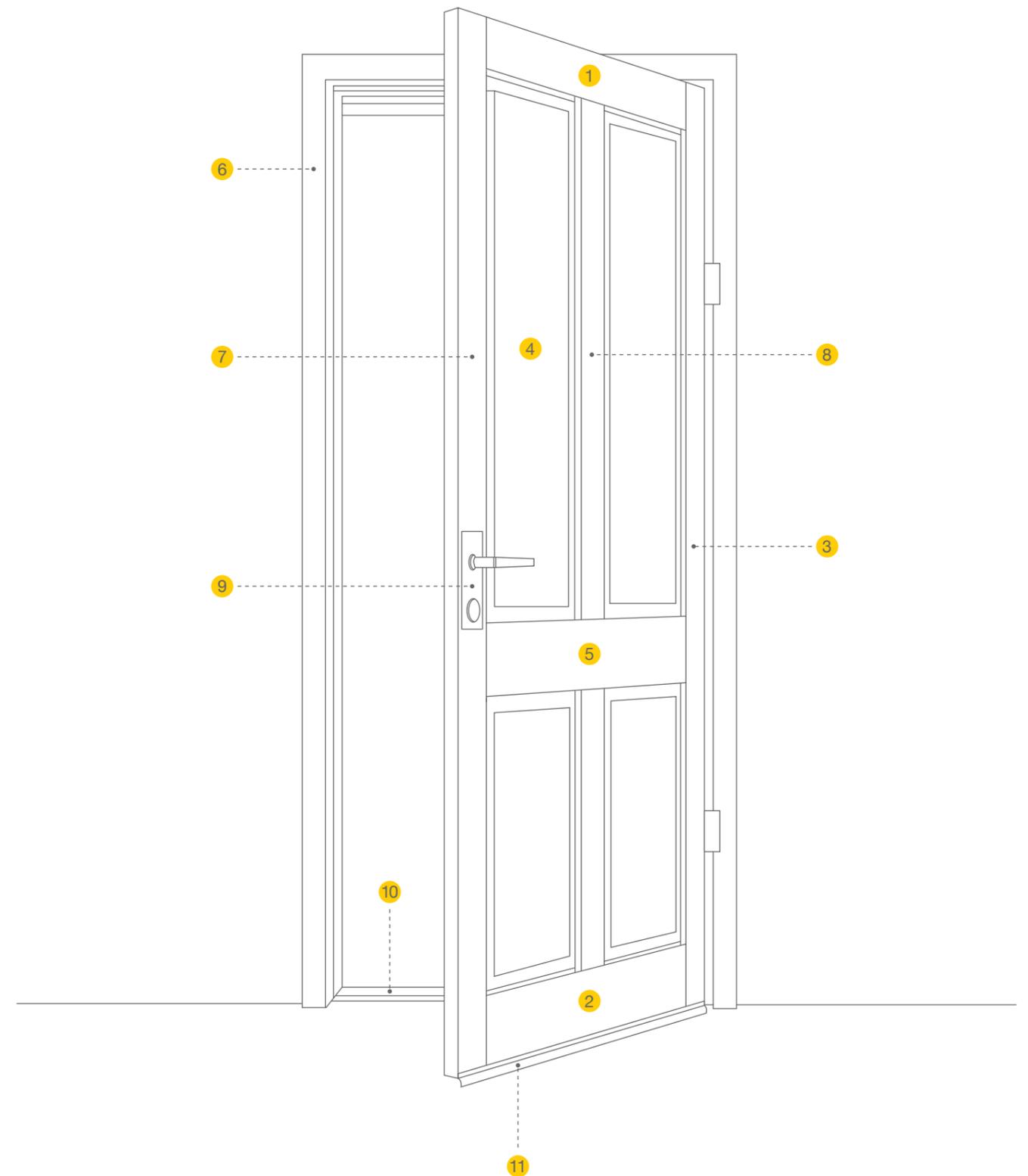
Door Direction

Depending on the pivot direction of a door, a door is classified as a left or right hand door. The door direction or side definition is according to the German standard DIN 107. Please note that this standard is different as compared to ANSI definition for left and right hand. Visible position of the door hinges on the left = DIN left and visible position of the door hinges on the right = DIN right.



Parts of a Door

- 1 Top Rail
- 2 Bottom Rail
- 3 Hinge Stile
- 4 Panel
- 5 Lock Rail
- 6 Door Frame
- 7 Latch Stile
- 8 Mullion
- 9 Lockset
- 10 Threshold
- 11 Door Seal

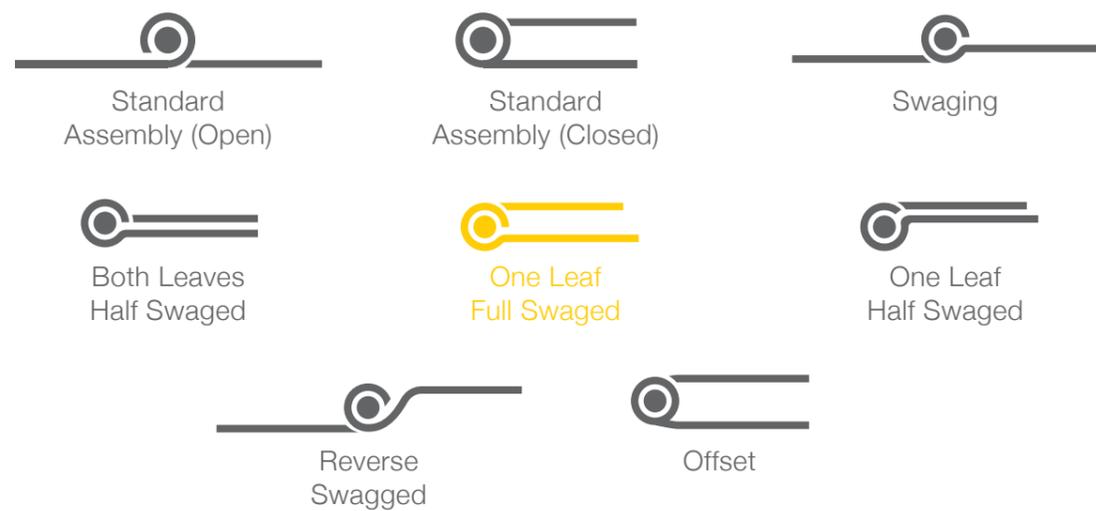
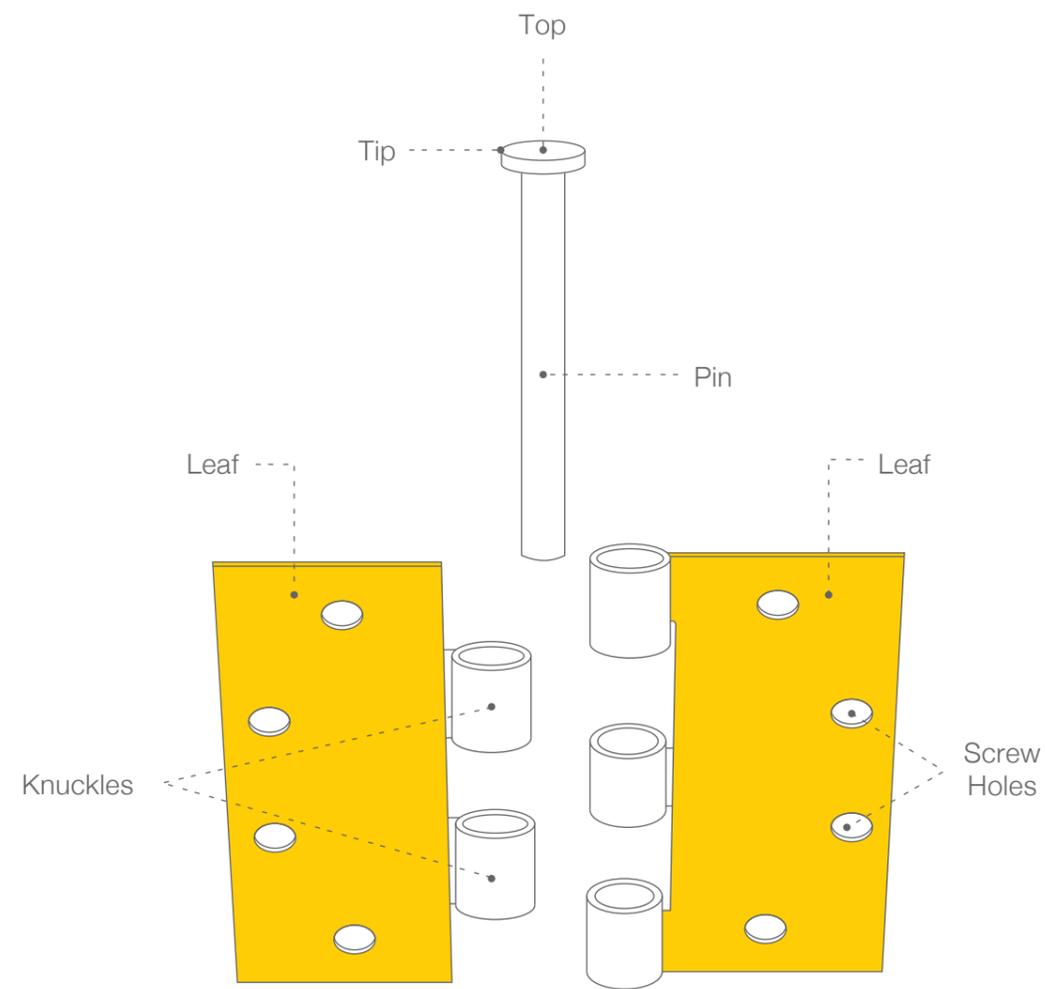


Door Hinges

A hinge is a mechanical bearing that connects two solid objects, typically allowing only a limited angle of rotation between them. This is the first product in the door hardware category which is used during the installation of a door. For the smooth functioning and operation of a door, Yale offers hinges with ball bearing technology available in SS316, SS304 and SS201 grades of stainless steel.

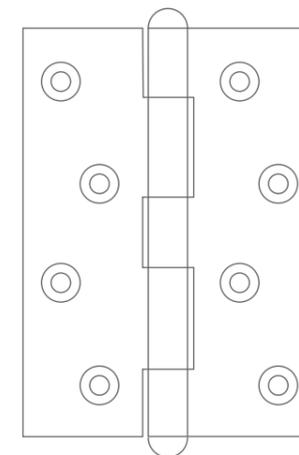
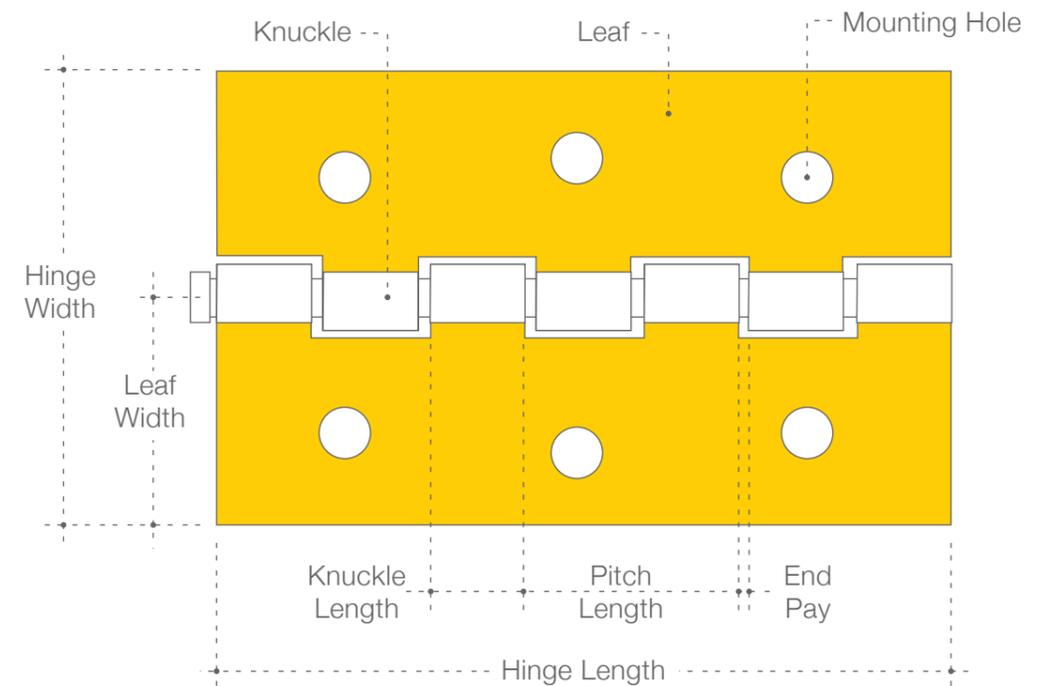


Parts of Hinges



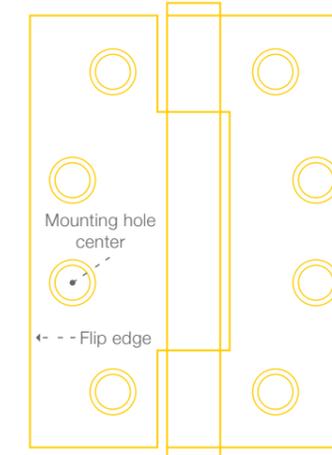
● Yale follows this specification of hinges.

Drilling Pattern in Hinges



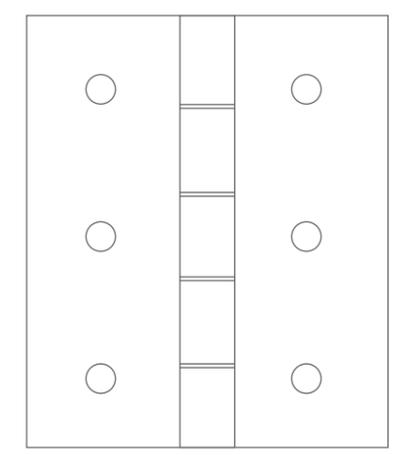
Zig-Zag (Congruent) Drilled Pattern

To avoid split of pin wood or any soft wood during installation



Template Drilled Pattern

- Need for accuracy fixing
- Allows doors to be pre-prepared
- Follow the pattern as per ANSI 156.7
- Used for hardwood & metal doors



Straight Line Pattern

Used in hinges' flanges which are too narrow

● Yale follows this specification of hinges.

Hinge Mounting Position Recommendation

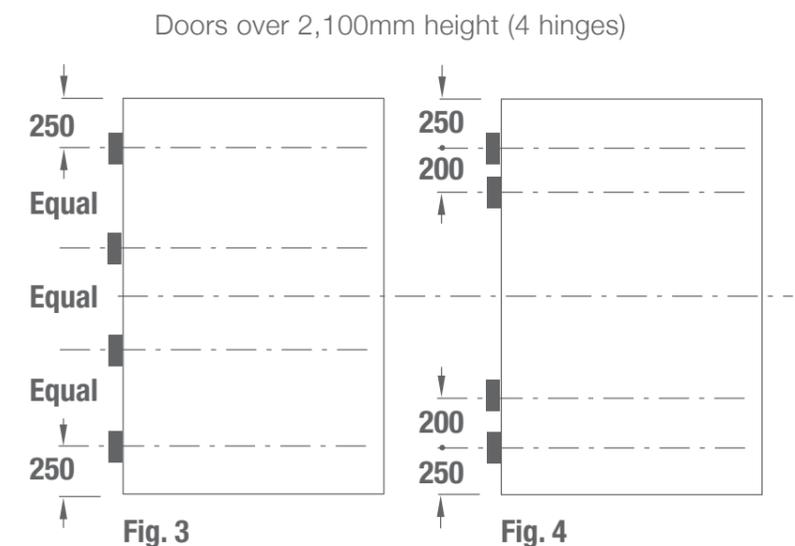
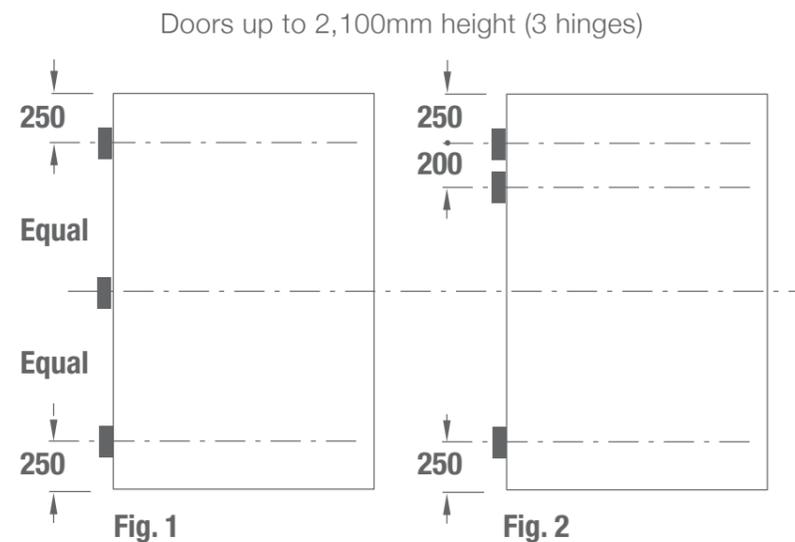
In the EN standard for hinges (EN 1935:2002) it is not specified where a hinge has to be fixed exactly. The recommendation shown below is only a guide and should be provided always as per the door specifications.

Figure 1: Use for medium weight doors. The benefit of this solution is that door will be held straight and wont warp.

Figure 2: Use for heavy weight doors. This alternative is recommended when door closing device is fixed on the door.

Figure 3: Use for door height over 2,100mm. This solution is for constructions with a high risk of door warping.

Figure 4: Use for door height over 2,100mm. This version is especially recommended when door closers are fitted on the door.



Adjusting the Door Weight

Normally, three hinges are fitted to each door. Their positions are determined by the weight of the door and its resistance to warping or whipping. Hinge specification is also determined by the adjusted door weight (based on the actual weight supplied by the manufacturer). The factors by which the door mass has to be adjusted for excessive widths of door are calculated by dividing the door height by its width. For a factor of 2 or greater, no allowance has to be made. When the factor is less than 2, the door mass has to be increased by the value required to bring the factor to 2 expressed as a percentage. These percentages are shown in the side loading calculations table below.

Door size		Factor	Normal increase of Door Height mass of door leaf %
Door height mm	Door width mm		
2,000mm	1,000	2.00	0
	1,050	1.90	10
	1,100	1.82	18
	1,150	1.74	26
	1,200	1.66	33
	1,250	1.60	40

Doors of excess width, please refer to loading calculation table		
Actual door weight	Door closer + 20%	= Adjusted door weight
	Door closer (Backcheck) + 75%	
	Extra heavy use + 10%	
	Light use - 10%	

Additional tables to aid understanding of EN 1935 2002
Digit 8 - hinge grade, regarding information on door mass and test cycles:

Table B shows the mass range of typical doors

Door type	Mass kg	Duty
Cupboard, wardrobe, cabinet, louvered doors and shutters	3.0 - 10.0	Light
Light internal, large wardrobe and large louvered doors	10.0 - 17.5	Light
Medium internal doors	17.5 - 25.0	Medium
Heavy internal doors	25.0 - 37.5	Medium
Heavy external doors	40.0 - 60.0	Heavy
Oversize or special external doors	55.0 - 110.0	Heavy

BS EN Standards for Hinges

Below table gives estimated number of operations of typical doors and use. Failure to assess the likely frequency of operation of a door could lead to the specification of inadequate hinges and subsequent problems.

Door type	Cycles / day	Cycles / annum
High use/high duty situations:		
Large department store entrance	5,000	1,500,000
Large office building entrance	4,000	920,000
Cinema or theatre entrance	1,300	455,000
School entrance	1,250	225,000
Entrance door to school toilets	1,250	225,000
City centre shop entrance	1,000	300,000
Large city bank entrance	1,000	250,000
School corridor fire door	600	108,000
Town bank entrance	500	150,000
City centre restaurant entrance	500	150,000
Large office corridor fire door	450	104,000
Town centre shop entrance	400	120,000
Large office or factory toilet entrance	400	92,000
Hospital ward door	350	128,000

Door type	Cycles / day	Cycles / annum
Medium use/medium duty situations:		
School classroom door	80	15,000
Office door	75	18,000
Store toilet door	60	18,000
Dwelling front entrance	12	4,400
Dwelling rear or side door	15	5,400

Standards

This standard provides details on product types, classification by use, test cycles, door mass, corrosion resistance, as well as definitions, product performance requirements, test apparatus, test methods and marking of products. In addition, the published standard includes annexes with details for special applications.

Scope

This European standard specifies requirements for single-axis hinges for windows and doors opening in one direction only, whose rotation axis is no more than 30mm from the face of the sash or door. It covers both fixed pin and lift-off hinges, and contains additional requirements for hinges intended for use on fire doors.



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

Door type	Mass kg	Duty
Cupboard, wardrobe, cabinet, louvered doors and shutters	3.0 - 10.0	Light
Light internal, large wardrobe and large louvered doors	10.0 - 17.5	Light
Medium internal doors	17.5 - 25.0	Medium
Heavy internal doors	25.0 - 37.5	Medium
Heavy external doors	40.0 - 60.0	Heavy
Oversize or special external doors	55.0 - 110.0	Heavy



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 - Test Door Mass

Eight door mass grades related to single-axis hinges are identified in this European standard as shown in the table below.

Test door mass 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

Download Door Hinges EN Standards





Digit 4 - Suitability for fire and smoke door use

Four categories of use are identified:

grade 0: not suitable for fire and smoke resistant door assemblies

grade 1: suitable for fire/smoke resistant door assemblies subject to satisfactory assessment of the contribution of the single-axis hinge to the fire resistance of the specified fire/smoke door assemblies.

Such assessment is beyond the scope of this European standard (see EN 1634-1)



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 1870:

grade 0: no defined corrosion resistance

grade 1: mild resistance

grade 2: moderate resistance

grade 3: 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. Annex C of this European standard details the hinge grade to use for the level of security required.



Digit 8 - Hinge Grade

Fourteen grades are identified in this European standard and are detailed in the table on the right. The full classification is shown in the standard.

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	80 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 Constasy of Performance for Hinges

Certificate of Constasy of Performance

0359-CPR-00355



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^{T4} applies to the construction product(s).

Product(s): Single axis hinges
(refer to attached appendix for details and conditions)

Placed on the market under the trade mark of: ASSA ABLOY ITALIA S.p.A.
Via Salvatore Quasimodo, 136, 0014 Rome, 40017, ITALY

Produced in the manufacturing plant(s): A003

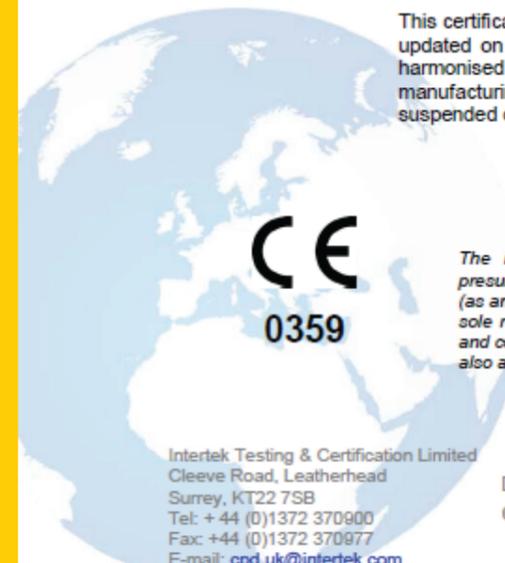
Intended use: On fire/smoke compartmentation doors fitted with door closing devices (to enable such doors to close reliably and thus achieve self closing in the event of fire)

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 performance of the construction product is assessed to remain constant.

This certificate was first issued on 17 February 2015 under CPR (305/2011) and updated on 26th November 2015 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.

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David Bigland
Certification Manager *D. Bigland* Date 26 NOV-2015
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Certificate of Constancy of Performance for Hinges

Certificate of Constancy of Performance 0359-CPR-00355



Appendix to Certificate of Constancy of Performance 0359-CPR-00355

Model Ref: Yale Branded Hinges, refer to Table A1.

Table A1. Product description for single axis hinges from ASSA ABLOY ITALIA S.p.A..

Model No. for brand names			Sizes	Finish
Yale Italy	AAHK	Yale EMEA		
Y36100403303112	2BB403030-SSS	36-1000-0403-30-31-12	102x76x3mm	Satin
Y36100403303312	2BB403030-PSS	36-1000-0403-30-33-12	102x76x3mm	Polished
Y36100403306612	2BB403030-PVD	36-1000-0403-30-66-12	102x76x3mm	PVD
Y36100435303112	2BB403530-SSS	36-1000-0435-30-31-12	102x89x3mm	Satin
Y36100435303312	2BB403530-PSS	36-1000-0435-30-33-12	102x89x3mm	Polished
Y36100435306612	2BB403530-PVD	36-1000-0435-30-66-12	102x89x3mm	PVD
Y36100404303112	2BB404030-SSS	36-1000-0404-30-31-12	102x102x3mm	Satin
Y36100404303312	2BB404030-PSS	36-1000-0404-30-33-12	102x102x3mm	Polished
Y36100404306612	2BB404030-PVD	36-1000-0404-30-66-12	102x102x3mm	PVD
Y36104504303112	2BB454030-SSS	36-1000-4504-30-31-12	114x102x3mm	Satin
Y36104504303312	2BB454030-PSS	36-1000-4504-30-33-12	114x102x3mm	Polished
Y36104504306612	2BB454030-PVD	36-1000-4504-30-66-12	114x102x3mm	PVD
Y36104545303112	2BB454530-SSS	36-1000-4545-30-31-12	114x114x3mm	Satin
Y36104545303312	2BB454530-PSS	36-1000-4545-30-33-12	114x114x3mm	Polished
Y36104545306612	2BB454530-PVD	36-1000-4545-30-66-12	114x114x3mm	PVD
Y36104504353112	2BB454035-SSS	36-1000-4504-35-31-12	114x102x3.5mm	Satin
Y36104504353312	2BB454035-PSS	36-1000-4504-35-33-12	114x102x3.5mm	Polished
Y36104504356612	2BB454035-PVD	36-1000-4504-35-66-12	114x102x3.5mm	PVD
Y36104545353112	2BB454535-SSS	36-1000-4545-35-31-12	114x114x3.5mm	Satin
Y36104545353312	2BB454535-PSS	36-1000-4545-35-33-12	114x114x3.5mm	Polished
Y36104545356612	2BB454535-PVD	36-1000-4545-35-66-12	114x114x3.5mm	PVD

Hinge type: "2BB" represents 2 Ball bearing butt hinges

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Certificate of Constancy of Performance for Hinges

Certificate of Constancy of Performance 0359-CPR-00355



Table A2. Product classification for single axis hinges (EN 1935:2002/AC:2003) from ASSA ABLOY ITALIA S.p.A.^{a,b}

Product Classification						
4	7	6	1 ^b	1	4	0 13

Notes.

- The single axis hinges shall be installed in accordance with the installation instructions for the product(s).
- Digit 4 grade "1" was based on the test result from fire resistance test(s) (refer to Table A4).
- 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

Supporting test reports for this certificate are as follows:

Table A3. Mechanical test reports & product classification for hinges from ASSA ABLOY ITALIA S.p.A..

Test Report	Model tested	Product Classification						
151106043GZU-001	102X76X3mm	4	7	6	- ^a	1	4	0 13
	114X114x3.5mm							
Model numbers assessed as having same performance: Models in Table A1 above.								
Notes. a. Digit 4 becomes "1" after successful outcome of fire resistance test (refer to Table A4).								

Table A4. Fire test report(s) for hinges from ASSA ABLOY ITALIA S.p.A..

Test Report	Model tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation(I)
141209105GZU-1	114X114X3.5mm (satin finish)	EN 1634-1:2014	90	90
Model numbers assessed as having same performance: Models in Table A1 above.				

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Page 3 of 4

Certificate of Constasy of Performance for Hinges

Certificate of Constasy of Performance

0359-CPR-00355

Intertek

Table A5. Single axis hinges (EN 1935:2002/AC:2003) according to the Annex ZA, Table ZA.1.

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
	5.6 Hinges for use on fire-resistant and/or smoke-control doors	Grade 1: suitable for use on fire/smoke resistant door assemblies
Durability	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

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00355
Issue: 2

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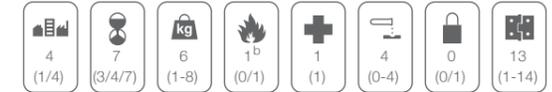
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Page 4 of 4

SS 304 Hinges

Stainless steel butt hinges

High quality stainless steel butt hinges.



Specifications:

- Butt hinge with ball bearings
- Stainless steel AISI 304
- Square corners
- Can be used on doors up to 120 kg

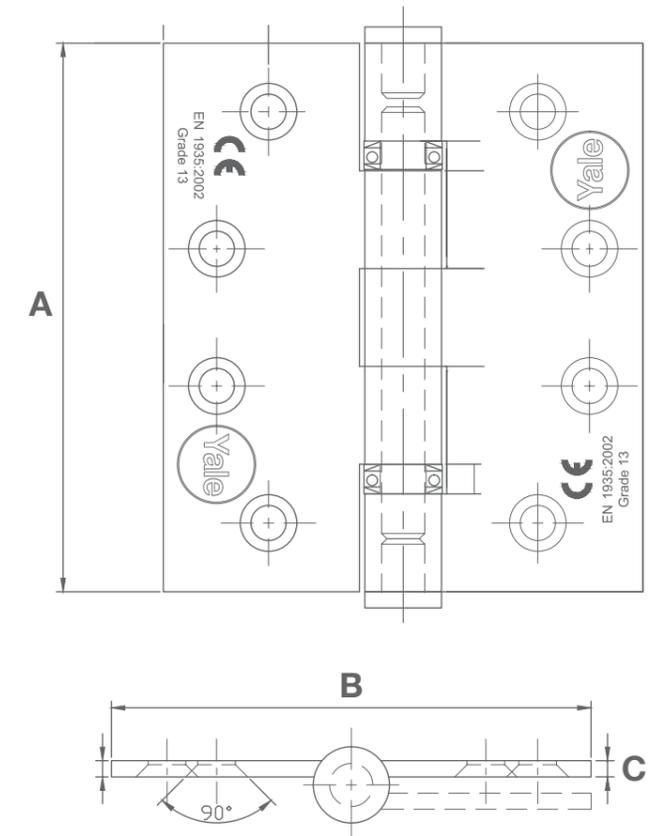
Features:

- CE marked
- Tested to EN 1935:2002 class 13
- Suitable for fire and smoke resistant doors, tested to EN 1634-1:2014

Available in Stainless Steel Matt, Stainless Steel Polish and Polished Brass finishes



Hinge Size	Dimensions		
	A	B	C
4" x 3" x 3mm	102mm	76mm	3mm
4" x 3.5" x 3mm	102mm	89mm	3mm
4" x 4" x 3mm	102mm	102mm	3mm
4.5" x 4" x 3mm	114mm	102mm	3mm
4.5" x 4.5" x 3mm	114mm	114mm	3mm
4.5" x 4" x 3.5mm	114mm	102mm	3.5mm
4.5" x 4.5" x 3.5mm	114mm	114mm	3.5mm



SKU	Description	UOM	Finish	Material	Packaging
36-1000-0403-30-3112	Ball Bearing Butt Hinge, 4X3X3MM,PR,SSM,SS304,BOX	PR	SSM	SS 304	BOX
36-1000-0435-30-3112	Ball Bearing Butt Hinge, 4X3.5X3MM,PR,SSM,SS304,BOX	PR	SSM	SS 304	BOX
36-1000-0404-30-3112	Ball Bearing Butt Hinge, 4X4X3MM,PR,SSM,SS 304,BOX	PR	SSM	SS 304	BOX
36-1000-4504-30-3112	Ball Bearing Butt Hinge, 4.5X4X3MM,PR,SSM,SS304,BOX	PR	SSM	SS 304	BOX
36-1000-4545-30-3112	Ball Bearing Butt Hinge, 4.5X4.5X3MM,PR,SSM,SS 304,BOX	PR	SSM	SS 304	BOX
36-1000-4504-35-3112	Ball Bearing Butt Hinge, 4.5X4X3MM,PR,SSM,SS304,BOX	PR	SSM	SS 304	BOX
36-1000-4545-35-3112	Ball Bearing Butt Hinge, 4.5X4.5X3.5MM,PR,SSM,SS304,BOX	PR	SSM	SS 304	BOX

SS 316 Hinges

Stainless steel butt hinges

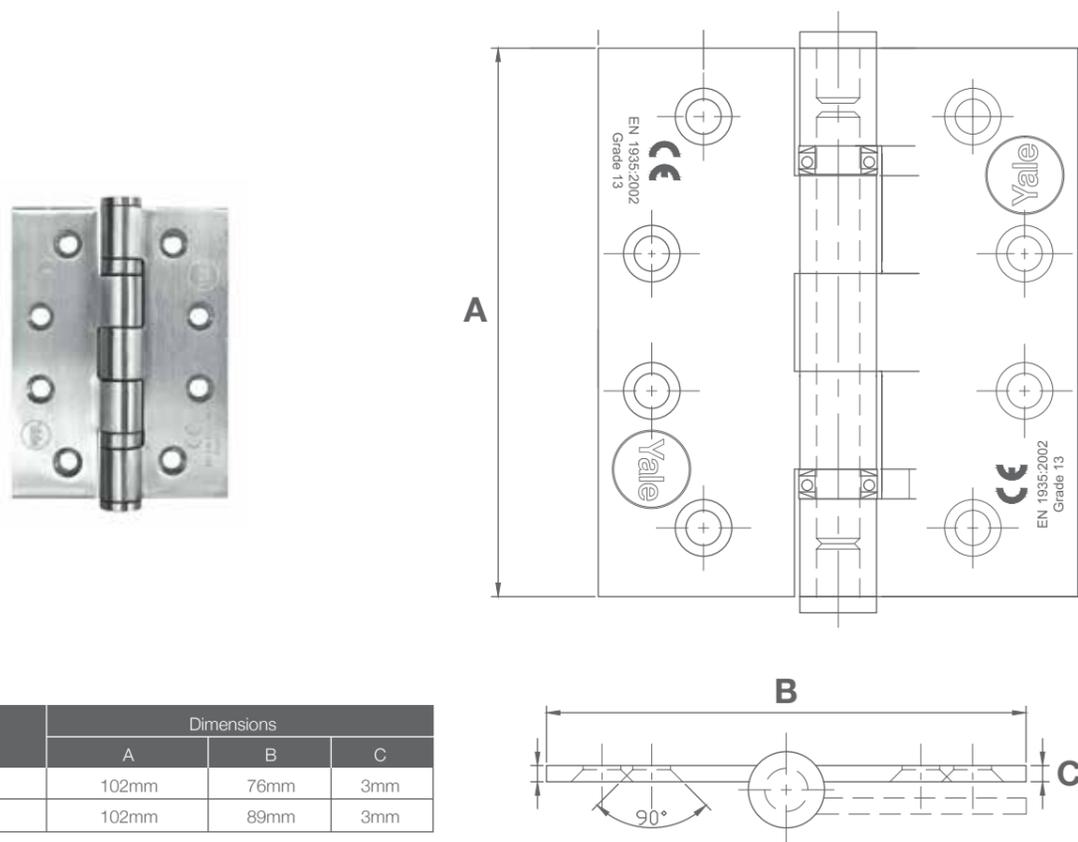
High quality stainless steel butt hinges.

Specifications:

- Butt hinge with ball bearings
- Stainless steel 316
- Square corners
- Can be used on doors up to 120 kg

Features:

Available in Stainless Steel Matt, Stainless Steel Polish and Polished Brass finishes



Hinge Size	Dimensions		
	A	B	C
4" x 3" x 3mm	102mm	76mm	3mm
4" x 3.5" x 3mm	102mm	89mm	3mm

SKU	Description	UOM	Finish	Material	Packaging
36-3000-0403-30-3112	Ball Bearing Butt Hinge, 4X3X3MM,PR,SSM,SS316,BOX	PR	SSM	SS 316	BOX
36-3000-0435-30-3112	Ball Bearing Butt Hinge, 4X3.5X3MM,PR,SSM,SS316,BOX	PR	SSM	SS 316	BOX
36-3000-4504-30-3112	Ball Bearing Butt Hinge, 4.5X4X3MM,PR,SSM,SS316,BOX	PR	SSM	SS 316	BOX
36-3000-4545-30-3112	Ball Bearing Butt Hinge, 4.5X4.5X3MM,PR,SSM,SS316,BOX	PR	SSM	SS 316	BOX
36-3000-4545-35-3112	Ball Bearing Butt Hinge, 4.5X4.5X3.5MM,PR,SSM,SS316,BOX	PR	SSM	SS 316	BOX

SS 201 Hinges

Stainless steel butt hinges

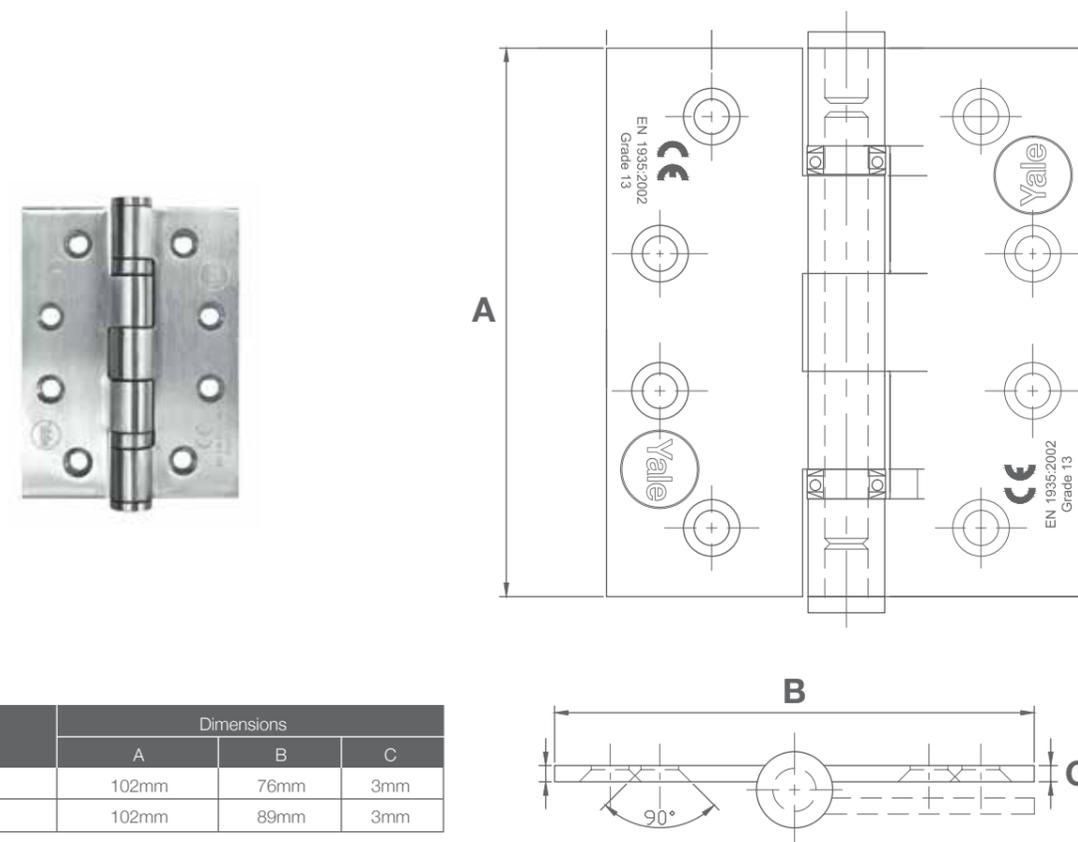
High quality stainless steel butt hinges.

Specifications:

- Butt hinge with ball bearings
- Stainless steel 201
- Square corners
- Can be used on doors up to 120 kg

Features:

Available in Stainless Steel Matt, Stainless Steel Polish and Polished Brass finishes



Hinge Size	Dimensions		
	A	B	C
4" x 3" x 3mm	102mm	76mm	3mm
4" x 3.5" x 3mm	102mm	89mm	3mm

SKU	Description	UOM	Finish	Material	Packaging
36-2000-0403-30-3112	Ball Bearing Butt Hinge, 4X3X3MM,PR,SSM,SS201,BOX	PR	SSM	SS 201	BOX
36-2000-0435-30-3112	Ball Bearing Butt Hinge, 4X3.5X3MM,PR,SSM,SS201,BOX	PR	SSM	SS 201	BOX

Screw set guide



Screws for timber



Metal door screws*
(to be purchased separately)

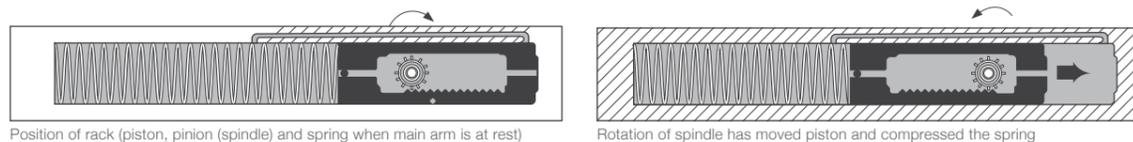
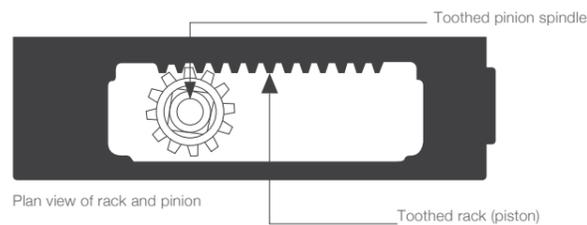
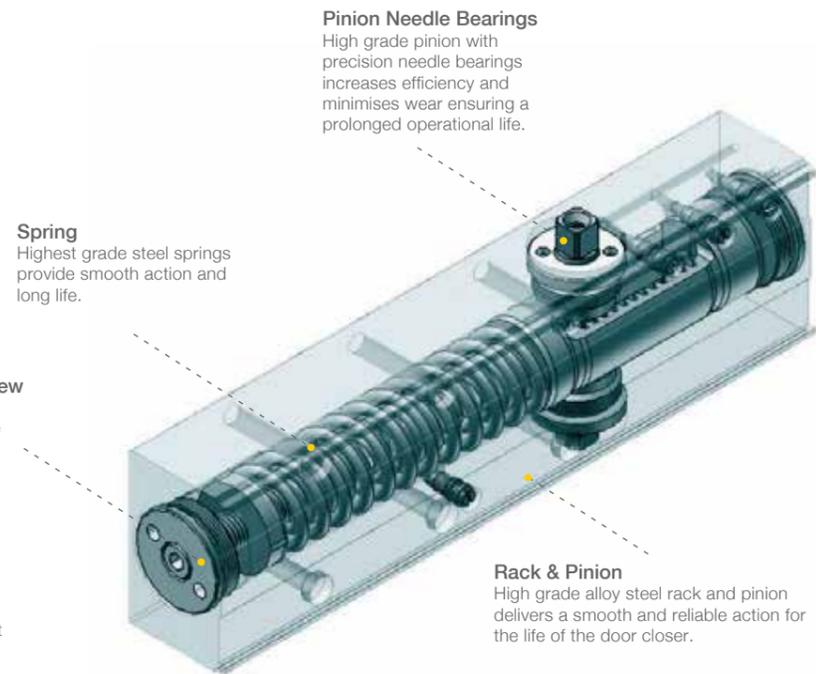
Door Closers

In order to close the door in a controlled speed, a door closer is used in order to prevent the door from slamming. Yale door closers come with speed controls and fire rating for best performance under all circumstances.

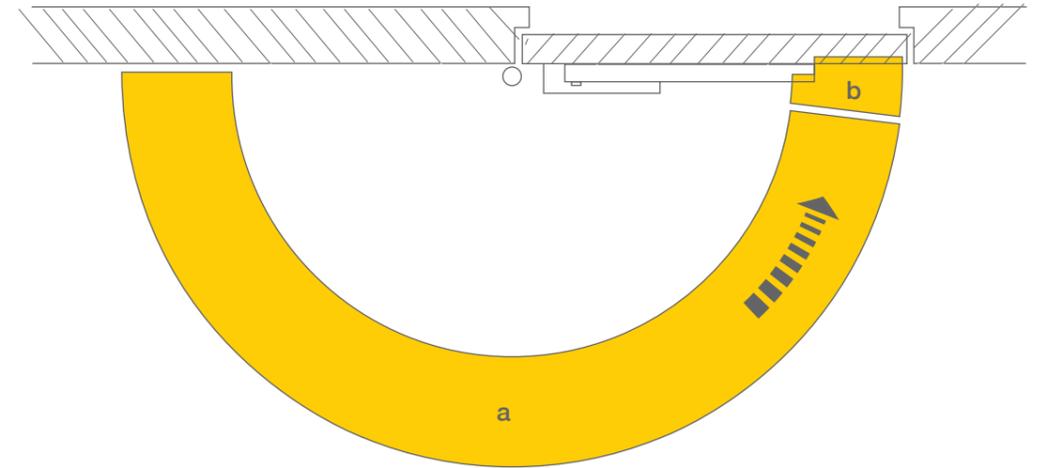


Rack & Pinion Technology

- Rack and Pinion is the mechanism used on Yale range of door closers
- As the door is opened, the arm is pulled around, rotating the pinion
- The pinion runs through the door closer body and its teeth engage with the teeth of a rack in a piston
- As the arm rotates the pinion, it in turn drives the piston down the cylinder bore
- The piston compresses the spring lying in the cylinder bore
- The energy used to open the door is stored in the spring and when the door is released the spring begins to expand which puts the process in reverse and the door closes
- The speed of closing is controlled by the hydraulic fluid in the system. It flows unrestricted in one direction as the door is opened but it has to make the return journey through valves
- These valves can be adjusted to control the rate of flow, and this governs the closing and latching speed

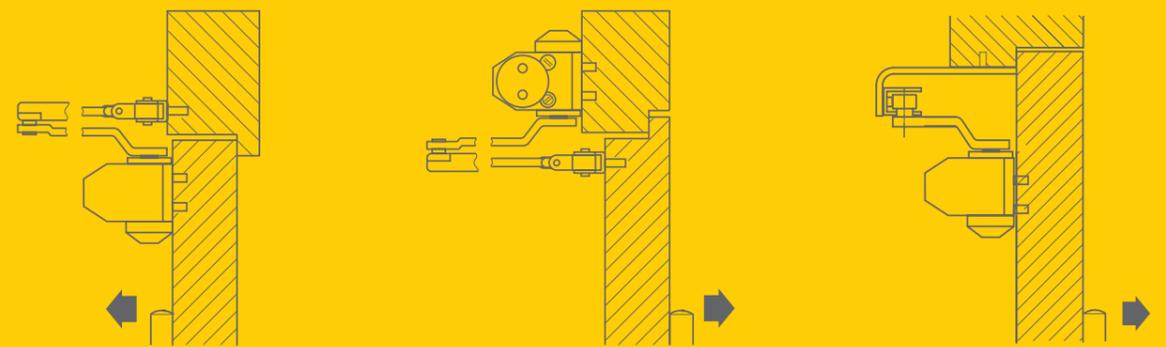


Door Closer Speed Checks



a Closing speed
The exact setting of the closing speed guarantees a controlled closing of the door leaf.

b Latching action
The latching action controls the closing of the door and ensures the lock closes reliably. Therefore the door closer increases the speed of the door. The hydraulic latching action is reducing the speed of the door to achieve a softer closing of the door.



Standard installation
(Door leaf installation) on the pull side

Overhead installation
(Transom fixing) on the push side

Parallel arm installation
On push side

* parallel arm to be purchased separately

BS EN Standards for Controlled Door Closing Devices



Download Door Closer EN Standards

Standards

There are two standards currently in existence for door closing devices:

EN 1154:1997 - Mechanical closers

EN 1155:1997 - Electronically controlled closers

EN 1154:1997 - Controlled door closing devices - requirements and test methods

Scope

The standard covers all controlled surface mounted, concealed, or transom mounted closers.

Attention should be paid to Digit 3, which deals with the power size and door width.

Classification



Digit 1 - Category of use

For all internal and external doors for use by the public, and others, with little incentive to take care, i.e. where there is some chance of misuse of the door.

Grade 3: For closing doors from at least 105° open

Grade 4: For closing doors from 180° open

Note 1: Grade 4 classification assumes standard installation according to the manufacturer's instructions.

Note 2: For applications subject to extremes of abuse, or for particular limitations of opening angle, door closers incorporating backcheck function or provision of a separate door stop should be considered.



Digit 2 - Number of test cycles

Only one test duration is identified for the door closing device manufactured to this standard:

Grade 8: 500,000 cycles



Digit 3 - Test door mass/size

Seven test door mass grades and related door closer power sizes are identified according to below table of this standard. Where a door closer provides a range of power sizes both the minimum and maximum sizes shall be identified.

Test door mass and recommended door widths

Power size of closer	Max. mass of leaf	Width of test door leaf
1	20 kg	<750mm
2	40 kg	850mm
3	60 kg	950mm
4	80 kg	1,100mm
5	100 kg	1,250mm
6	120 kg	1,400mm
7	160 kg	1,600mm



Digit 4 - Fire behaviour

Grade 0: Not suitable for use on fire/smoke door assemblies

Grade 1: Suitable for use on fire/smoke door assemblies, subject to satisfactory assessment of the contribution of the emergency device to the fire resistance of specified fire/smoke door assemblies



Digit 5 - Safety

All door closers are required to satisfy the Essential Requirement of safety in use contained in the Construction Products Directive by the EU. Therefore only **Grade 1** is identified.



Digit 6 - Corrosion resistance

Five grades are identified according to EN 1670:

Grade 0: No defined corrosion resistance

Grade 1: Low resistance

Grade 2: Moderate resistance

Grade 3: High resistance

Grade 4: Very high resistance

Classification Code



3:8:2/5:0:1:0

EXAMPLE:

The following marking denotes a closer capable of opening to at least 105°, and with a range of power sizes from size 2 to size 5. Note that as the 4th digit is zero, such a closer would not be suitable for fire door use.

Fire Resistant Doors

EN 1154 makes the following recommendations as to the feature considered necessary for such devices when they are fitted to fire and smoke resisting doors.

- a The door closer when installed in accordance with the manufacturer's installation instruction shall be capable of closing the test door from any angle to which it may be opened.
- b Due to their low closing moments, door closers sizes 1 and 2 are not considered suitable for use on fire/smoke resisting door assemblies. Door closers with adjustable closing force shall be capable of adjustment to at least power size 3.
- c The door closer shall not include a hold open device unless it is electrically powered device in accordance with EN 1155.

- d Control regulators shall be either concealed or operable only by means of a tool.
- e The design of a door closer shall be such that it is not possible to inhibit its closing action in any way without the use of a tool.
- f Any incorporated delayed action function shall be capable of adjustment to less than 25 seconds between the door closing angle of 120° and the end of the delay zone.
- g The door closer representative of its model shall have been incorporated in a door assembly that has satisfied the appropriate criteria of a fire test. The test shall have been on a full size assembly in accordance with EN 1634-1.

CE conformity



Where a door closing device has a CE certificate of conformity, this will be shown. Hence, it is stated in 8300 that all fire doors must have closing devices that are CE marked.

Fire resistance and smoke control

- F Tested for fire resistant and smoke control doors.
- X The use of a hold open device on fire resistant and smoke control doors are not permitted or they are not tested for resistance and smoke control.

We give below a guide to the terminology used in connection with door closing devices.

Backcheck

A device built into the closer that checks the outward swing of the door. The backcheck damping is inversely proportional to the speed of the outward swing of the door. It should not be regarded as a door stop.

Closing speed

The speed with which the door is closed. Normally adjustable.

Closing force

The power that the closer exerts to close the door. Measured in the EN standard from 1-6. See table below.

Latching action

The door movement becomes accelerated in the last few degrees of closing, in order to be able to overcome any resistance, such as seals, latch bolts, etc.

Delayed action

The closing speed of the door is reduced to minimal or the door stops, for a preset period, to allow passers-by sufficient time to pass through the door opening. i.e. elderly persons, hospital staff with beds, etc.

Hold open

This is a device to enable the closer to be held in the open position, usually at 90°, but some are variable in the opening degree. These closers must not be used on fire doors (except where they are electronically controlled to close when the fire alarm is sounded).

Door stops

Always use a door stop, where practicable, whether a closer has a backcheck or not. This may take the form of a floor mounted version, wall/skirting mounted version or built-in as found with guide rail closers. The positioning of the stop is also important, and must be at least 66% (2/3rds) the door width away from the hinge, otherwise the stop acts as a fulcrum and could damage the door, the frame and the hinges. Where there is a maximum angle of opening stated the stop must be positioned at that point, otherwise damage to the closer will occur.

Note

Please ensure that the correct closing device is the appropriate one for the job it is intended to do and that it is the correct size. Too many closers are under specified, purely in an effort to reduce costs.

Size	Max. door width mm	Min. closing moments N.m
1	750	9
2	850	13
3	950	18
4	1100	26
5	1250	37
6	1400	54

It should be noted that size 3 is the minimum requirement for fire doors.

Certificate of Constancy of Performance for Door Closers 4000 series





Notified body No. 1121
Warrington Certification Limited, Holmesfield Road, Warrington, Cheshire, WA1 2DS, UK

Certificate of constancy of performance

1121-CPR-AD5100

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

Yale 4000 Series Overhead door closer

Intended use: For use on fire rated single leaf and double leaf doors
STANDARD FIXING POSITION.

Essential characteristics	Performance	Harmonised technical specification
	Test Refs : 141204, 141204/P, 168281 & 142527.	
Self closing		
5.2.1 General		
5.2.2 Durability	500,000 test cycles	
5.2.3 Closing moment	Pass size 2 to 4	
5.2.4 Opening moment	Pass size 2 to 4	
5.2.5 Efficiency	>50% size 2	
5.2.5 Efficiency	>60% size 4	
5.2.6 Closing time	Pass	
5.2.7 Angles of operation	Grade 3, >105°	
5.2.8 Overload performance	Pass	EN 1154:1998/A1:2002/AC:2006
5.2.9 Temperature dependence	-15°C to +40°C	
5.2.10 Fluid leakage	Pass	
5.2.11 Damage	Pass	
5.2.12 Latch control	Pass	
5.2.13 Back check (optional)	Pass	
5.2.14 Delayed closing (optional)	NPD	
5.2.15 Adjustable closing force (optional)	Pass	
5.2.16 Zero position (double action door closers only)	NPD	
5.2.18 Fire/smoke door suitability	Pass	
Essential characteristics	Performance	Harmonised technical specification
Durability of Self Closing		
5.2.2 Durability	500,000 test cycles	
5.2.17.1 corrosion	Grade 4 (240 hours)	
5.2.17.2 corrosion	Pass	EN 1154:1998/A1:2002/AC:2006
Dangerous Substances Annex ZA3	Pass: the materials in the door closer do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations	

Page 1 of 3

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Certificate of Constancy of Performance for Door Closers 4000 series





Certificate of constancy of performance

1121-CPR-AD5100

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

Yale 4000 Series Overhead door closer

Intended use: For use on fire rated single leaf and double leaf doors
PARALLEL ARM APPLICATION.

Essential characteristics	Performance	Harmonised technical specification
Self closing		
5.2.1 General		
5.2.2 Durability	500,000 test cycles	
5.2.3 Closing moment	Pass size 3	
5.2.4 Opening moment	Pass size 3	
5.2.5 Efficiency	>55% size 3	
5.2.6 Closing time	Pass	
5.2.7 Angles of operation	Grade 3, > 105°	
5.2.8 Overload performance	Pass	
5.2.9 Temperature dependence	-15°C to +40°C	EN 1154:1998/A1:2002/AC:2006
5.2.10 Fluid leakage	Pass	
5.2.11 Damage	Pass	
5.2.12 Latch control	NPD	
5.2.13 Back check (optional)	NPD	
5.2.14 Delayed closing (optional)	NPD	
5.2.15 Adjustable closing force (optional)	NPD	
5.2.16 Zero position (double action door closers only)	NPD	
5.2.18 Fire/smoke door suitability	Pass	
Essential characteristics	Performance	Harmonised technical specification
Durability of Self Closing		
5.2.2 Durability	500,000 test cycles	
5.2.17.1 corrosion	Grade 4 (240 hours)	
5.2.17.2 corrosion	Pass	EN 1154:1998/A1:2002/AC:2006
Dangerous Substances Annex ZA3	Pass: the materials in the door closer do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations	

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35

36

Certificate of Constancy of Performance for Door Closers 4000 series





Certificate of constancy of performance
1121-CPR-AD5100

Produced for

Yale EMEA
School Street, Willenhall, West Midlands, WV13 3PW

and produced in the manufacturing plant

K/002

This is coded form and the information is held by the Notified Body.

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

EN 1154:1996/A1:2002/AC:2006

under system 1 of AVCP are applied and that

The product fulfils all the prescribed requirements set out above.

This certificate was first issued on 12/09/13 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.


 Paul Duggan
 Certification Manager
 Warrington Certification Ltd



Page 3 of 3

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Certificate of Constancy of Performance for Door Closers 5000 series





Notified body No. 1121
Warrington Certification Limited, Holmesfield Road, Warrington, Cheshire, WA1 2DS, UK

Certificate of constancy of performance
1121-CPR-AD5101

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

Yale 5000 Series Overhead door closer

Intended use: For use on fire rated single leaf and double leaf doors
STANDARD AND TRANSOM MOUNT PULL SIDE FIXING POSITIONS.

Essential characteristics	Performance	Harmonised technical specification
	Test Refs : 403.2PCT, 140519/D, MPA12001005.10-01, 140785 & 144506.	
Self closing		EN 1154:1996/A1:2002/AC:2006
5.2.1 General		
5.2.2 Durability	500,000 test cycles	
5.2.3 Closing moment	Pass size 2 to 4	
5.2.4 Opening moment	Pass size 2 to 4	
5.2.5 Efficiency	>50% size 2	
5.2.5 Efficiency	>60% size 4	
5.2.6 Closing time	Pass	
5.2.7 Angles of operation	Grade 4, 180°	
5.2.8 Overload performance	Pass	
5.2.9 Temperature dependence	-15°C to +40°C	
5.2.10 Fluid leakage	Pass	
5.2.11 Damage	Pass	
5.2.12 Latch control	Pass	
5.2.13 Back check (optional)	Pass	
5.2.14 Delayed closing (optional)	NPD	
5.2.15 Adjustable closing force (optional)	Pass	
5.2.16 Zero position (double action door closers only)	NPD	
5.2.18 Fire/smoke door suitability	Pass	
Essential characteristics	Performance	Harmonised technical specification
Durability of Self Closing		EN 1154:1996/A1:2002/AC:2006
5.2.2 Durability	500,000 test cycles	
5.2.17.1 corrosion	Grade 4 (240 hours)	
5.2.17.2 corrosion	Pass	
Dangerous Substances Annex ZA3	Pass: the materials in the door closer do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations	

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Certificate of Constancy of Performance for Door Closers 5000 series





Certificate of constancy of performance

1121-CPR-AD5101

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

Yale 5000 Series Overhead door closer

Intended use: For use on fire rated single leaf and double leaf doors
PARALLEL ARM APPLICATION.

Essential characteristics	Performance	Harmonised technical specification
Self closing		EN 1154:1996/A1:2002/AC:2006
5.2.1 General		
5.2.2 Durability	500,000 test cycles	
5.2.3 Closing moment	Pass size 3	
5.2.4 Opening moment	Pass size 3	
5.2.5 Efficiency	>55% size 3	
5.2.6 Closing time	Pass	
5.2.7 Angles of operation	Grade 3, > 105°	
5.2.8 Overload performance	Pass	
5.2.9 Temperature dependence	-15°C to +40°C	
5.2.10 Fluid leakage	Pass	
5.2.11 Damage	Pass	
5.2.12 Latch control	NPD	
5.2.13 Back check (optional)	NPD	
5.2.14 Delayed closing (optional)	NPD	
5.2.15 Adjustable closing force (optional)	NPD	
5.2.16 Zero position (double action door closers only)	NPD	
5.2.18 Fire/smoke door suitability	Pass	
Essential characteristics	Performance	Harmonised technical specification
Durability of Self Closing		EN 1154:1996/A1:2002/AC:2006
5.2.2 Durability	500,000 test cycles	
5.2.17.1 corrosion	Grade 4 (240 hours)	
5.2.17.2 corrosion	Pass	
Dangerous Substances Annex ZA3	Pass: the materials in the door closer do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations	

Page 2 of 3

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Certificate of Constancy of Performance for Door Closers 5000 series





Certificate of constancy of performance

1121-CPR-AD5101

Produced for

Yale EMEA

School Street, Willenhall, West Midlands, WV13 3PW

and produced in the manufacturing plant

K/002

This is coded form and the information is held by the Notified Body.

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

EN 1154:1996/A1:2002/AC:2006

under system 1 of AVCP are applied and that

The product fulfils all the prescribed requirements set out above.

This certificate was first issued on 12/09/13 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.



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Page 3 of 3

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Registered office: Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL, UK. Registered in Scotland, No. SC 70429

Features		722 Series	4000 Series	5000 Series
Material - body	Die-casting body	•		
	Anodized aluminum forged body		•	•
Material - arm	Steel stamping arm	•	•	•
Door weight (kg)	40 kg	•	•	•
	57 kg	•		
	60 kg		•	•
	68 kg	•		
	80 kg	•	•	•
Door width (mm)	850 mm		•	•
	870 mm	•		
	950 mm	•	•	•
	1100 mm	•	•	•
Max. degree of opening	160	•		
	180	•	•	•
Mechanism	Rack & Pinion	•	•	•
Adjustable closing & latching speed	Yes	•	•	•
Arm type	Standard arm	•	•	•
	Hold open arm		•	•
Colors	Silver	•	•	•
	Black	•	•	•
	White	•	•	•
	Brown	•	•	•
	Gold	•	•	•
Fire rating	180 mins (Timber Door)	•		
	120 mins (Timber Door)		•	•
Power size	Selectable position power size 2/3/4	•	•	•
Durability	100,000 Cycles	•		
	500,000 Cycles		•	•
Salt spray test	Grade 4(240 hours)		•	•
Temperature dependence	-15°C to 40°C		•	•
Certificate	UL	•		
	CE		•	•

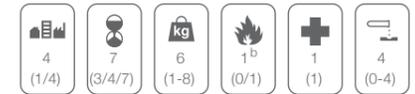
Download the Door Closer Datasheet



Overhead Door Closer

5000 series

Medium duty CE marked power selectable door closer



Download Installation Template



Specifications:

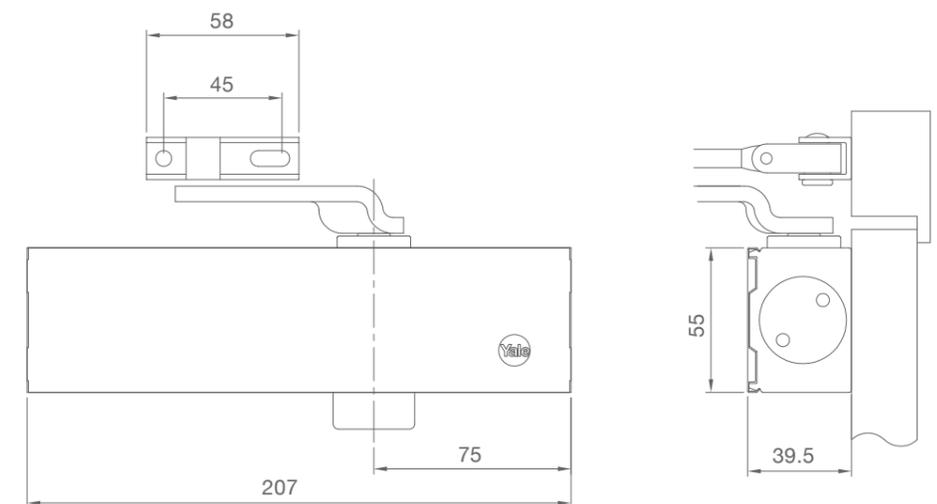
- Forged aluminum body
- CE marked
- Non-handed installation

Features:

- Rack and Pinion mechanism
- Selectable EN size 2, 3 & 4
- Max door width: 1100mm
- Max door weight 80kg
- Adjustable closing and latching speed
- A built-in pressure relief valve protects the closer against abuse
- Can be installed with standard or hold open arm and parallel arm bracket
- Hold open type should not be installed on fire doors
- Available in silver, white, brown, black & gold



EN 2	850mm	40 kg	
EN 3	950mm	60 kg	
EN 4	1100mm	80 kg	



SKU	Description	UOM	FIN	MAT	PKG	WGT
30-5000-0001-00-5011	5000 Series overhead door closer, Std arm, CE	PC	WHITE	ALU, ALY	BOX	2.10
30-5000-0004-00-5011	5000 Series overhead door closer, HO arm, CE	PC	WHITE	ALU, ALY	BOX	2.32
30-5000-0001-00-5511	5000 Series overhead door closer, Std arm, CE	PC	BLACK	ALU, ALY	BOX	2.10
30-5000-0004-00-5511	5000 Series overhead door closer, HO arm, CE	PC	BLACK	ALU, ALY	BOX	2.32
30-5000-0001-00-6011	5000 Series overhead door closer, Std arm, CE	PC	SILVER	ALU, ALY	BOX	2.10
30-5000-0004-00-6011	5000 Series overhead door closer, HO arm, CE	PC	SILVER	ALU, ALY	BOX	2.32
30-5000-0001-00-6511	5000 Series overhead door closer, Std arm, CE	PC	GOLD	ALU, ALY	BOX	2.10
30-5000-0004-00-6511	5000 Series overhead door closer, HO arm, CE	PC	GOLD	ALU, ALY	BOX	2.32
30-5000-0001-00-7511	5000 Series overhead door closer, Std arm, CE	PC	BROWN	ALU, ALY	BOX	2.10
30-5000-0004-00-7511	5000 Series overhead door closer, HO arm, CE	PC	BROWN	ALU, ALY	BOX	2.32

Overhead Door Closer

4000 series

Medium duty CE marked power selectable door closer



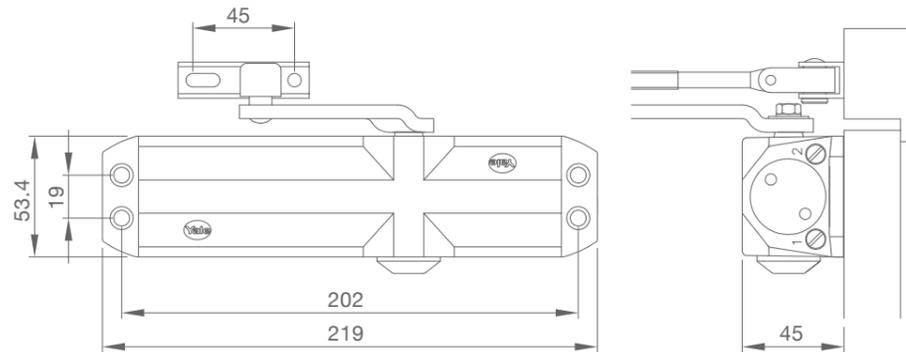
Specifications:

- Forged aluminum body
- CE marked
- Non-handed installation

Features:

- Rack and Pinion mechanism
- Selectable EN size 2, 3 & 4
- Max door width: 1100mm
- Max door weight: 80kg
- Adjustable closing and latching speed
- Can be installed with standard or hold open arm and parallel arm bracket
- Hold open type should not be installed on fire doors
- Available in silver, white, brown, black & gold

Download Installation Template



EN 2	850mm	40 kg
EN 3	950mm	60 kg
EN 4	1100mm	80 kg

SKU	Description	UOM	FIN	MAT	PKG	WGT
30-4000-0001-00-5011	4000 Series overhead door closer, Std arm, CE	PC	WHITE	ALU, ALY	BOX	1.62
30-4000-0004-00-5011	4000 Series overhead door closer, HO arm, CE	PC	WHITE	ALU, ALY	BOX	1.70
30-4000-0001-00-5511	4000 Series overhead door closer, Std arm, CE	PC	BLACK	ALU, ALY	BOX	1.62
30-4000-0004-00-5511	4000 Series overhead door closer, HO arm, CE	PC	BLACK	ALU, ALY	BOX	1.70
30-4000-0001-00-6011	4000 Series overhead door closer, Std arm, CE	PC	SILVER	ALU, ALY	BOX	1.62
30-4000-0004-00-6011	4000 Series overhead door closer, HO arm, CE	PC	SILVER	ALU, ALY	BOX	1.70
30-4000-0001-00-6511	4000 Series overhead door closer, Std arm, CE	PC	GOLD	ALU, ALY	BOX	1.62
30-4000-0004-00-6511	4000 Series overhead door closer, HO arm, CE	PC	GOLD	ALU, ALY	BOX	1.70
30-4000-0001-00-7511	4000 Series overhead door closer, Std arm, CE	PC	BROWN	ALU, ALY	BOX	1.62
30-4000-0004-00-7511	4000 Series overhead door closer, HO arm, CE	PC	BROWN	ALU, ALY	BOX	1.70

Overhead Door Closer

722 series

Medium duty UL marked power selectable by mounting position door closer

Download Installation Template

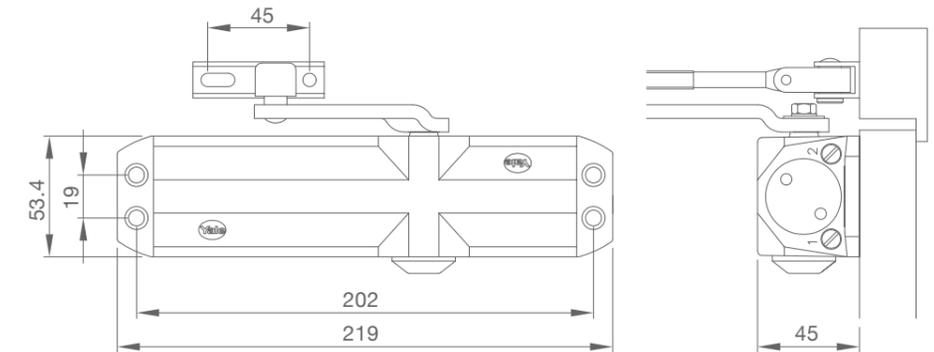


Specifications:

- Casted aluminum body
- Selectable force UL 2-4 adjustable closing speed

Features:

- Rack and Pinion mechanism
- Body in cast aluminum and steel arm design for easy installation small ledge on doors with wall adjacent 90°
- Closing speed and latching action
- Adjustable via lateral regulating values
- Equipped with link arm
- Max door weight: 80kg
- Available in silver, white, brown, black & gold



2	850mm	40 kg
3	950mm	60 kg
4	1100mm	80 kg

SKU	Description	UOM	FIN	MAT	PKG	WGT
7221220052	722 Series overhead door closer, Std arm, UL	PC	BLACK	ALU, ALY	BOX	1.70
7221220053	722 Series overhead door closer, Std arm, UL	PC	WHITE	ALU, ALY	BOX	1.70
7221220056	722 Series overhead door closer, Std arm, UL	PC	BROWN	ALU, ALY	BOX	1.70
7221220057	722 Series overhead door closer, Std arm, UL	PC	SILVER	ALU, ALY	BOX	1.70
7221220058	722 Series overhead door closer, Std arm, UL	PC	GOLD	ALU, ALY	BOX	1.70

Lever Handles

Lever handles are used both as a decorative piece and for the smooth operation of the door lock. Yale offers a wide variety of lever handles in stainless steel, brass, zinc alloy and aluminium material, available in different surface finishes.



Criteria for Lever Handle Selection

Aesthetics

If the architect is using curves in the overall design, and in features such as vision panels in the doors, square-section levers and rectangular back plates will be a mismatch.

Is it the right thickness and weight?

High end specifications require a good solid feel. Other projects might only need lighter pattern handles.

What finishes are available?

In some projects there might be a need for colored door furniture, or maybe brass or polished chrome. The important/public parts of the building might have expensive finishes, and the "back of house" non-public areas might have the same lever design but in a regular finish.

Are the fixings concealed or exposed?

- Most commercial grade furniture has concealed fixings to prevent tampering or unauthorized removal.
- Low cost housing furniture might have exposed fixings.

Functionality

- Suitable for the type of use it will get?
- Corrosion resistance?
- Is durability an issue?
- Does the lever stop your hand from sliding off? Could it catch on sleeves or loose clothing as you walk by?
- What kind of fixings are needed?
- Will simple screw-fixing be enough, or should the furniture be back-to-back fixed with through-bolts, in order to survive heavy duty use?

Ways to Operate a Door

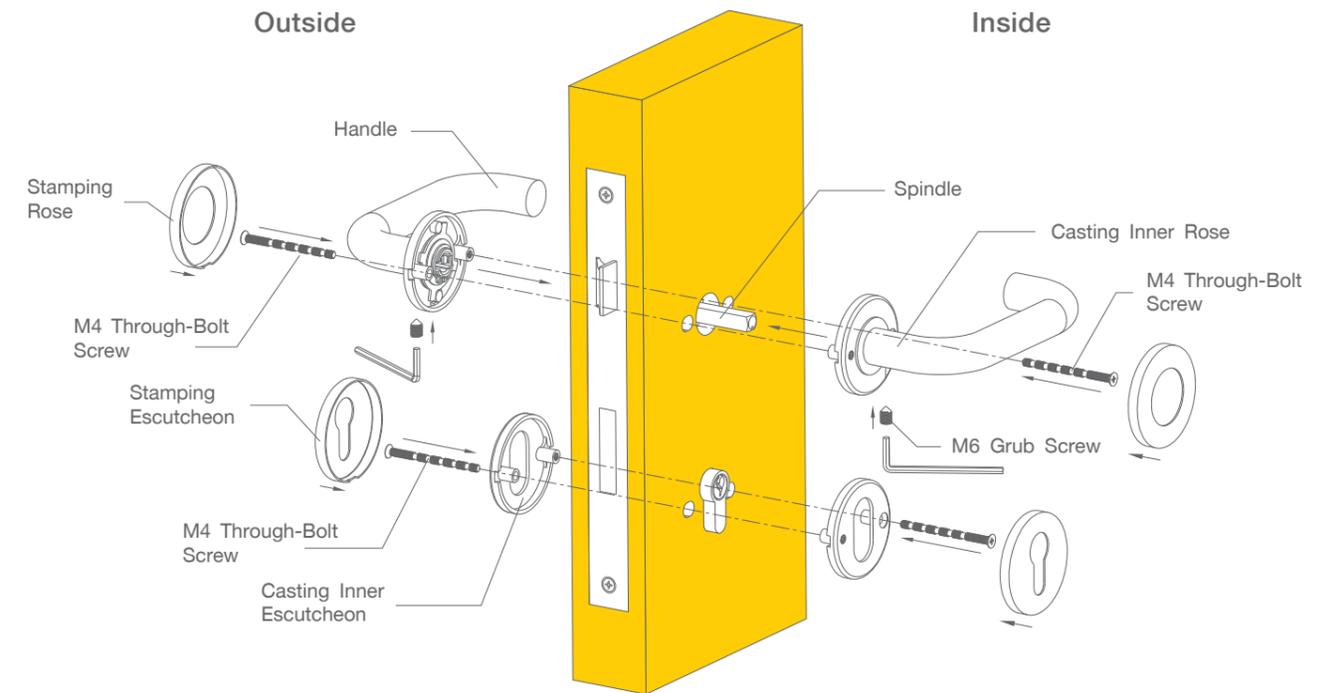
Door hardware is a general term used for products which are fixed to doors to enable or enhance their function.

Door furniture (levers and knobs) includes below types of fittings:

- pull handles
- protection plates
- front door furniture
- door stops

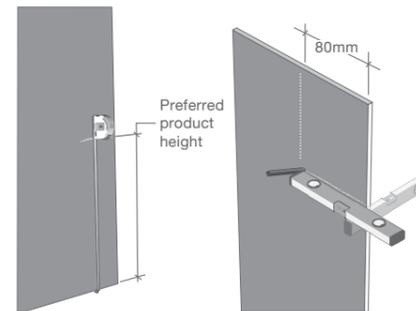
Door furniture is a term used to describe hardware that is surface-mounted on the door, and which is used to open or close the door.

Lever Handle Installation Guide



1 Prepare Door

- Determine your nominated handle position vertically using a tape measure.
- Then, draw a horizontal centerline using a spirit level at desired height - this line should extend inwards at least 80mm from door edge.
- Repeat above steps on opposite door side, door end-face and door frame.



We suggest between 900-1050mm for typical new plain door installations.

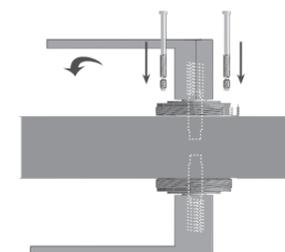
2 Prepare Screws

- Cut screws appropriate to door thickness
- Ensure the screw does not stick out of the rose once installed.



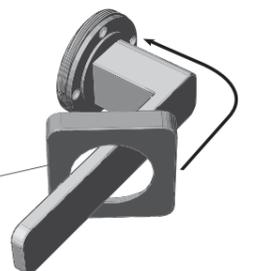
3 Install Lever Sets

- Place the spindle and springs (if required) into the latch as shown.
- Install each half set, ensuring you have levers springing downwards.
- Insert two cut off screws of correct length through holes at 9 and 3 o'clock positions and tighten.
- The two remaining woodscrews can be positioned at the 12 and 6 o'clock positions for added strength.



4 Install Outer Rose Cover

- Install the outer rose cover over the inner rose by sliding it over the lever.
- Attach round rose covers by screwing onto the inner rose.



For square covers only: Grub screw should be located on the bottom of the rose cover when placed on the door.

BS EN 1906

Building Hardware - Lever handles and knob furniture

This standard details performance requirements and test methods in relation to corrosion resistance, security and other aspects pertaining to the application of lock latch furniture.

Scope

The European standard specifies the performance requirements and test methods (i.e. durability, static strength, operating torque, corrosion, safety, etc.) for sprung and unsprung lever handles and knobs for doors on backplates or roses. It applies only to lever handles and knobs that operate a lock or latch. The standard has 4 grades of performance. Compliance with the standard ensures a margin of strength in excess of that needed for normal operation. The standard has additional graded safety requirements where a high risk of falling exists.

Classification

BS EN 1906 classifies door furniture by using an 8 digit coding system. A similar classification applies to all building hardware product standards so that complementary items of hardware can be specified to, for instance, a common level of corrosion resistance, category of use, etc. Each digit refers to a particular feature of the product measured against the standard's performance requirements.



The icon above is for a product which meets Grade 2 in the category of Use classification, where EN 1906 stipulates a range of four possible grades from 1 to 4.

Digit 1 - Category of use

Four grades are identified:-

- Grade 1:** medium frequency of use 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 office doors;
- Grade 4:** high frequency of use on doors which are subject to frequent violent use, e.g. football stadiums, oil rigs, barracks, public toilets, etc.

Digit 2 - Durability

Two grades of durability are identified:

- Grade 6:** medium use - 100,000 cycles
- Grade 7:** high use - 200,000 cycles

The tests undertaken to achieve these grades involve the application of additional forces to the door furniture in order to simulate the conditions of use likely to be experienced in the field.

Digit 3 - Test Door Mass

No requirement

Digit 4 - Fire resistance

Two grades of fire resistance are identified:-

- Grade 0:** not approved for use on fire/smoke door assemblies
- Grade 1:** suitable for use on fire/smoke door assemblies.

Note:

A Grade 1 classification means only that the furniture has been designed for use on fire/smoke control doors; the actual fire performance achieved (e.g. fire integrity of 30 minutes on a partially glazed timber door etc.) will be contained in a separate fire test report.

Digit 5 - Safety

Two grades of safety are identified:-

- Grade 0:** normal use
- Grade 1:** safety application - to qualify for this grade, handles must have high strength handle-to-plate and plate-to-door fixing and/or handle-to-spindle fixing, such that they would withstand a person grabbing in order to prevent falling. It is recommended that only Safety Grade 1 furniture is used at the top of cellar steps or other staircases.

Digit 6 - Corrosion resistance

Five grades are identified according to EN 1670:-

- Grade 0:** no defined corrosion resistance
- Grade 1:** mild resistance - minimum requirement for internal use-grade 2: moderate resistance
- Grade 3:** high resistance - minimum requirement for external use
- Grade 4:** very high resistance - recommended for use in exposed marine atmospheres or very polluted industrial environments.

Note:

Products intended to develop a natural patina (such as bronze or brass) are not required to comply with any requirements.

Digit 7 - Security

Four grades are identified:-

- Grade 0:** not approved for use on burglary resistant doors
- Grade 1:** mild burglary resistance
- Grade 2:** moderate burglary resistance
- Grade 3:** high burglary resistance-grade 4: extra high burglary resistance

Note:

The main requirements include resistance to drilling, close fitting plates or escutcheons to help protect the lock and support the cylinder. They must be resistant to removal from the outside of the door and make provision to minimize the cylinder projection to a maximum of 3mm. Full details of the requirements can be found in BS EN 1906.

Digit 8 - Types of operation

Three operation types are identified:-

- Type A:** spring assisted furniture
- Type B:** spring loaded furniture
- Type U:** unsprung furniture

The following marking denotes a lever handle for high frequency use on a door that is also subject to frequent violent usage. There is no classification for door mass, but it is suitable for use on fire/smoke door assemblies, and for where safety is important. It has a very high corrosion resistance suitable for external doors. It has high burglarly resistance and is of the unsprung type.



Download Lever Handles EN Standards



Decorative Stainless Steel Handles Elisa

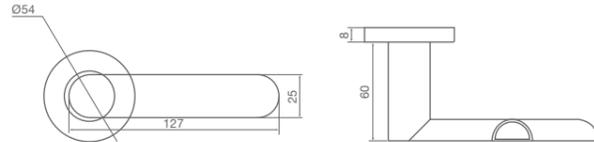


Specifications:

- Stainless steel AISI 304
- Rosette Ø54 x 8mm
- Sprung lever
- Spindle 8x8mm
- Matching escutcheons for euro cylinder

Features:

- Conforms to EN 1906:2012 - Grade 4
- Tested to 200,000 cycles
- Finish options: satin, polished and PVD satin gold



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T029-CE-31-11	Decorative lever handle, Elisa design, SS304, SSS, Box	PR	SSS	SS304	BOX	1100
35-SS04-T029-CE-32-11	Decorative lever handle, Elisa design, SS304, PSS, Box	PR	PSS	SS304	BOX	1100
35-SS04-T029-CE-66-11	Decorative lever handle, Elisa design, SS304, PVD GLD, Box	PR	PVD GLD	SS304	BOX	1100

Giulia

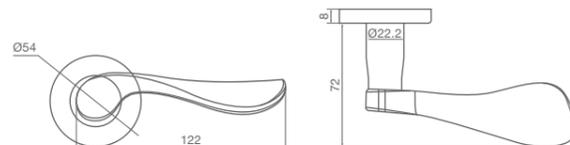


Specifications:

- Stainless steel AISI 304
- Rosette Ø54x8mm
- Sprung lever
- Spindle 8x8mm
- Matching escutcheons for euro cylinder

Features:

- Conforms to EN 1906:2012 - Grade 4
- Tested to 200,000 cycles
- Finish options: satin, polished and PVD satin gold



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T001-CE-31-11	Decorative lever handle, Giulia design, SS304, SSS, Box	PR	SSS	SS304	BOX	1100
35-SS04-T001-CE-32-11	Decorative lever handle, Giulia design, SS304, PSS, Box	PR	PSS	SS304	BOX	1100
35-SS04-T001-CE-66-11	Decorative lever handle, Giulia design, SS304, PVD GLD, Box	PR	PVD GLD	SS304	BOX	1100
35-SS04-T001-CE-09-11	Decorative lever handle, Giulia design, SS304, AB, Box	PR	AB	SS304	BOX	1100

Decorative Stainless Steel Handles Sara

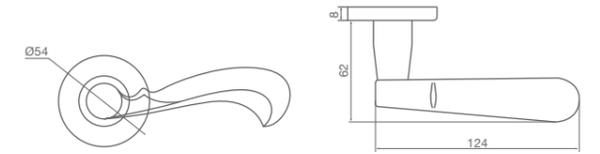


Specifications:

- Stainless steel AISI 304
- Rosette Ø54 x 8mm
- Sprung lever
- Spindle 8x8mm
- Matching escutcheons for euro cylinder

Features:

- Conforms to EN 1906:2012 - Grade 4
- Tested to 200,000 cycles
- Finish options: satin, polished and PVD satin gold



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T006-CE-31-11	Decorative lever handle, Sara design, SS304, SSS, Box	PR	SSS	SS304	BOX	1100
35-SS04-T006-CE-32-11	Decorative lever handle, Sara design, SS304, PSS, Box	PR	PSS	SS304	BOX	1100
35-SS04-T006-CE-66-11	Decorative lever handle, Sara design, SS304, PVD GLD, Box	PR	PVD GLD	SS304	BOX	1100
35-SS04-T006-CE-09-11	Decorative lever handle, Sara design, SS304, AB, Box	PR	AB	SS304	BOX	1100

Mia

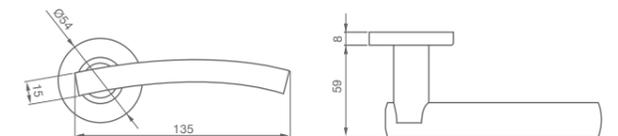


Specifications:

- Stainless steel AISI 304
- Rosette Ø54x8mm
- Sprung lever
- Spindle 8x8mm
- Matching escutcheons for euro cylinder

Features:

- Conforms to EN 1906:2012 - Grade 4
- Tested to 200,000 cycles
- Finish options: satin, polished and PVD satin gold



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T065-CE-31-11	Decorative lever handle, Mia design, SS304, SSS, Box	PR	SSS	SS304	BOX	1100
35-SS04-T065-CE-32-11	Decorative lever handle, Mia design, SS304, PSS, Box	PR	PSS	SS304	BOX	1100
35-SS04-T065-CE-66-11	Decorative lever handle, Mia design, SS304, PVD GLD, Box	PR	PVD GLD	SS304	BOX	1100

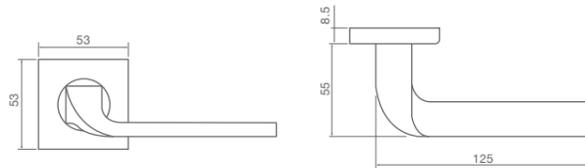
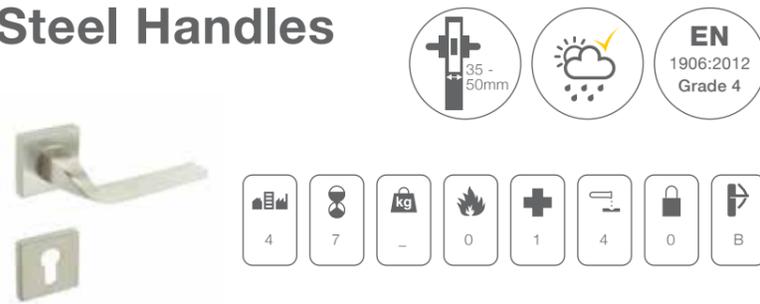
Decorative Stainless Steel Handles Laura

Specifications:

- Stainless steel AISI 304
- Rosette Ø54 x 8.5mm
- Sprung lever
- Spindle 8x8mm
- Matching escutcheons for euro cylinder

Features:

- Conforms to EN 1906:2012 - Grade 4
- Tested to 200,000 cycles
- Finish options: satin, polished and PVD satin gold



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-S098-CE-31-11	Decorative lever handle, Laura design, SS304, SSS, Box	PR	SSS	SS304	BOX	1100
35-SS04-S098-CE-32-11	Decorative lever handle, Laura design, SS304, PSS, Box	PR	PSS	SS304	BOX	1100
35-SS04-S098-CE-66-11	Decorative lever handle, Laura design, SS304, PVD GLD, Box	PR	PVD GLD	SS304	BOX	1100

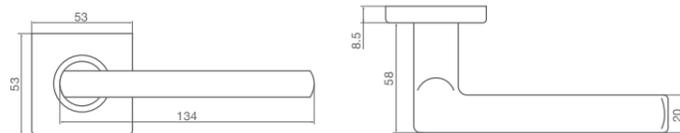
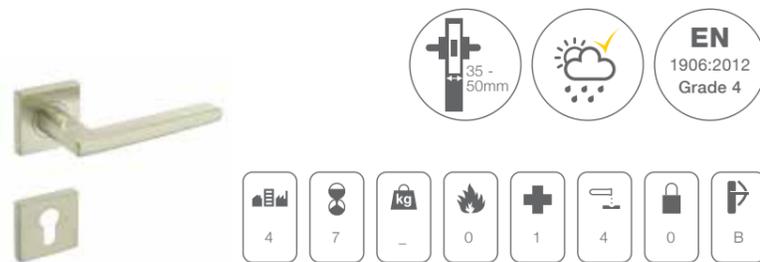
Martina

Specifications:

- Stainless steel AISI 304
- Rosette Ø54x8.5mm
- Sprung lever
- Spindle 8x8mm
- Matching escutcheons for euro cylinder

Features:

- Conforms to EN 1906:2012 - Grade 4
- Tested to 200,000 cycles
- Finish options: satin, polished and PVD satin gold



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T038-CE-31-11	Decorative lever handle, Martina design, SS304, SSS, Box	PR	SSS	SS304	BOX	1100
35-SS04-T038-CE-32-11	Decorative lever handle, Martina design, SS304, PSS, Box	PR	PSS	SS304	BOX	1100
35-SS04-T038-CE-66-11	Decorative lever handle, Martina design, SS304, PVD GLD, Box	PR	PVD GLD	SS304	BOX	1100

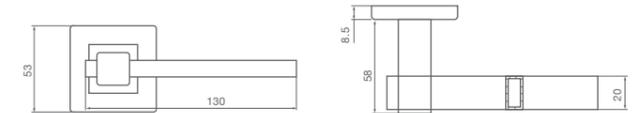
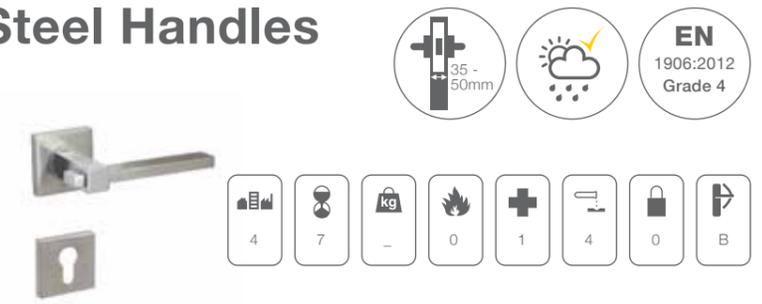
Decorative Stainless Steel Handles Anna

Specifications:

- Stainless steel AISI 304
- Square rosette 53x8.5mm
- Sprung lever
- Spindle 8x8mm
- Matching escutcheons for euro cylinder

Features:

- Conforms to EN 1906:2012 - Grade 4
- Tested to 200,000 cycles
- Finish options: satin, polished and PVD satin gold



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T042-CE-31-11	Decorative lever handle, Anna design, SS304, SSS, Box	PR	SSS	SS304	BOX	1100
35-SS04-T042-CE-32-11	Decorative lever handle, Anna design, SS304, PSS, Box	PR	PSS	SS304	BOX	1100
35-SS04-T042-CE-66-11	Decorative lever handle, Anna design, SS304, PVD GLD, Box	PR	PVD GLD	SS304	BOX	1100

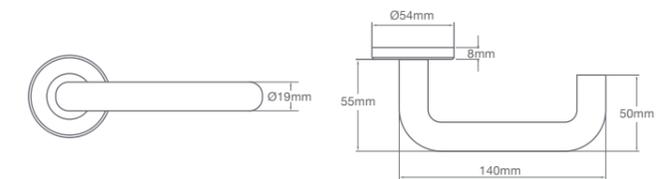
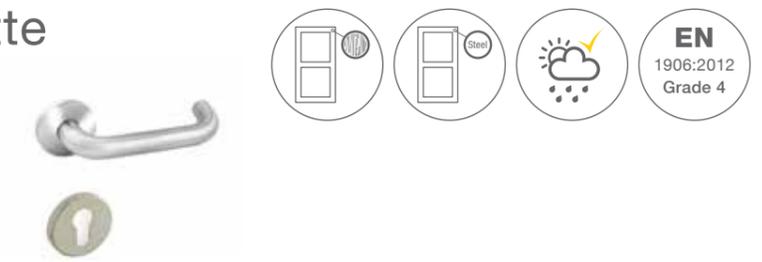
U-design lever on rosette

Specifications:

- Tubular stainless steel AISI 304
- Rosette Ø54x8mm
- Sprung lever Ø19mm
- Spindle 8x8mm
- Tested to Grade 4 EN 1906:2012
- Matching escutcheons for euro cylinder

Features:

- Suitable for wooden 60 minute fire rated door
- Suitable for humid environment
- Satin stainless steel finish standard, polished stainless steel finish available on demand



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T101-CE-31-11	U-design handle and escutcheon set	PR	SS MATT	SS304	BOX	460

Stainless Steel Handles L-design lever on rosette

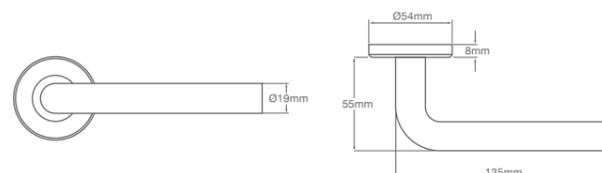


Specifications:

- Tubular stainless steel AISI 304
- Rosette Ø54x8mm
- Sprung lever Ø19mm
- Spindle 8x8mm
- Tested to Grade 4 EN 1906:2012
- Matching escutcheons for euro cylinder

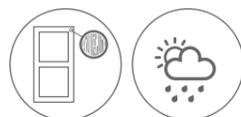
Features:

- Suitable for wooden 60 minute fire rated door
- Suitable for humid environment



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-T102-CE-31-11	L-design handle and escutcheon set	PR	SS MATT	SS304	BOX	460

U-design lever on square plate

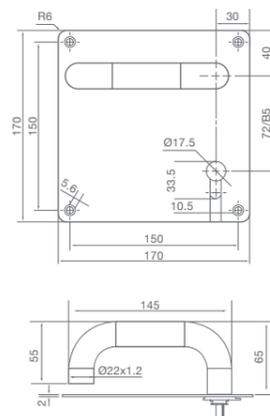


Specifications:

- Tubular stainless steel AISI 304
- Rosette Ø54x8mm
- Sprung lever Ø19mm
- Spindle 8x8mm
- Tested to Grade 4 EN 1906:2012
- Matching escutcheons for euro cylinder

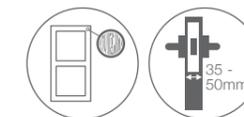
Features:

- Suitable for wooden 60 minute fire rated door
- Suitable for humid environment
- Satin stainless steel finish standard, polished stainless steel finish available on demand



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-SS04-0119-72-31-11	Ø19mm lever on 170x170mm square plate, 72mm center distance	PR	SS MATT	SS304	BOX	660
35-SS04-0122-72-31-11	Ø22mm lever on 170x170mm square plate, 72mm center distance	PR	SS MATT	SS304	BOX	660
35-SS04-0119-85-31-11	Ø19mm lever on 170x170mm square plate, 85mm center distance	PR	SS MATT	SS304	BOX	660
35-SS04-0122-85-31-11	Ø22mm lever on 170x170mm square plate, 85mm center distance	PR	SS MATT	SS304	BOX	660

Aluminium Lever Handles with Rosette Milano



Specifications:

- Aluminium lever with spring mechanism
- Zinc alloy rosette and escutcheon Ø54x9mm
- Electroplated finishes
- Spindle (8x8mm) and fixings included
- Spindle with secure grub screw fixing

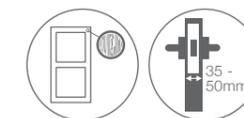
Features:

- Suitable for locks with 8mm square hub
- Rosette with threaded base and cover
- Satin nickel and antique brass finishes
- Suitable for doors 35-50mm thick
- Recommended for internal doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-ZR-A016-CE-22-11	Essential series, rose lever handle, Milano design, Alu, Zinc Alloy, SN, Box	PR	SN	Alu, Zinc Alloy	BOX	650
35-ZR-A016-CE-09-11	Essential series, rose lever handle, Milano design, Alu, Zinc Alloy, AB, Box	PR	AB	Alu, Zinc Alloy	BOX	650

Apollo



Specifications:

- Aluminium lever with spring mechanism
- Zinc alloy rosette and escutcheon Ø54x9mm
- Electroplated finishes
- Spindle (8x8mm) and fixings included
- Spindle with secure grub screw fixing

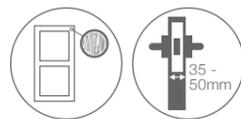
Features:

- Suitable for locks with 8mm square hub
- Rosette with threaded base and cover
- Satin nickel and antique brass finishes
- Suitable for doors 35-50mm thick
- Recommended for internal doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-ZR-A027-CE-22-11	Essential series, rose lever handle, Apollo design, Alu, Zinc Alloy, SN, Box	PR	SN	Alu, Zinc Alloy	BOX	650
35-ZR-A027-CE-09-11	Essential series, rose lever handle, Apollo design, Alu, Zinc Alloy, AB, Box	PR	AB	Alu, Zinc Alloy	BOX	650

Aluminium Lever Handles with Rosette Venezia



Specifications:

- Aluminium lever with spring mechanism
- Zinc alloy rosette and escutcheon Ø54x9mm
- Electroplated finishes
- Spindle (8x8mm) and fixings included
- Spindle with secure grub screw fixing

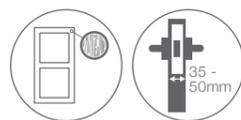
Features:

- Suitable for locks with 8mm square hub
- Rosette with threaded base and cover
- Satin nickel and antique brass finishes
- Suitable for doors 35-50mm thick
- Recommended for internal doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-ZR-A055-CE-22-11	Essential series, rose lever handle, Venezia design, Alu, Zinc Alloy, SN, Box	PR	SN	Alu, Zinc Alloy	BOX	650
35-ZR-A055-CE-09-11	Essential series, rose lever handle, Venezia design, Alu, Zinc Alloy, AB, Box	PR	AB	Alu, Zinc Alloy	BOX	650

Napoli



Specifications:

- Aluminium lever with spring mechanism
- Zinc alloy rosette and escutcheon Ø54x9mm
- Electroplated finishes
- Spindle (8x8mm) and fixings included
- Spindle with secure grub screw fixing

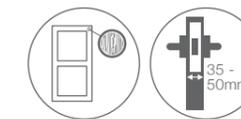
Features:

- Suitable for locks with 8mm square hub
- Rosette with threaded base and cover
- Satin nickel and antique brass finishes
- Suitable for doors 35-50mm thick
- Recommended for internal doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-ZR-A075-CE-22-11	Essential series, rose lever handle, Napoli design, Alu, Zinc Alloy, SN, Box	PR	SN	Alu, Zinc Alloy	BOX	650
35-ZR-A075-CE-09-11	Essential series, rose lever handle, Napoli design, Alu, Zinc Alloy, AB, Box	PR	AB	Alu, Zinc Alloy	BOX	650

Aluminium Lever Handles with Rosette Cortina



Specifications:

- Aluminium lever with spring mechanism
- Zinc alloy rosette and escutcheon Ø54x9mm
- Electroplated finishes
- Spindle (8x8mm) and fixings included
- Spindle with secure grub screw fixing

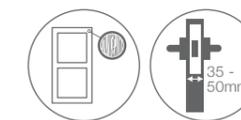
Features:

- Suitable for locks with 8mm square hub
- Rosette with threaded base and cover
- Satin nickel and antique brass finishes
- Suitable for doors 35-50mm thick
- Recommended for internal doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-ZR-A007-CE-22-11	Essential series, rose lever handle, Cortina design, Alu, Zinc Alloy, SN, Box	PR	SN	Alu, Zinc Alloy	BOX	650
35-ZR-A007-CE-09-11	Essential series, rose lever handle, Cortina design, Alu, Zinc Alloy, AB, Box	PR	AB	Alu, Zinc Alloy	BOX	650

Toilet Indicator Bathroom Set



Specifications:

- Inside turn knob and outside emergency release
- Zinc alloy material Ø54mm
- Threaded base and cover
- Spindles and adaptor to suit lock with 4mm, 6mm or 8mm hub

Features:

- Electroplated satin nickel or antique brass finish



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-ZX-03-WC-22-50	Snib release indicator lock - for high pressure laminate doors, Alu, Zinc Alloy, SN, Box	PR	SN	Alu, Zinc Alloy	BOX	250
35-ZX-03-WC-09-50	Snib release indicator lock - for high pressure laminate doors, Alu, Zinc Alloy, AB, Box	PR	AB	Alu, Zinc Alloy	BOX	250

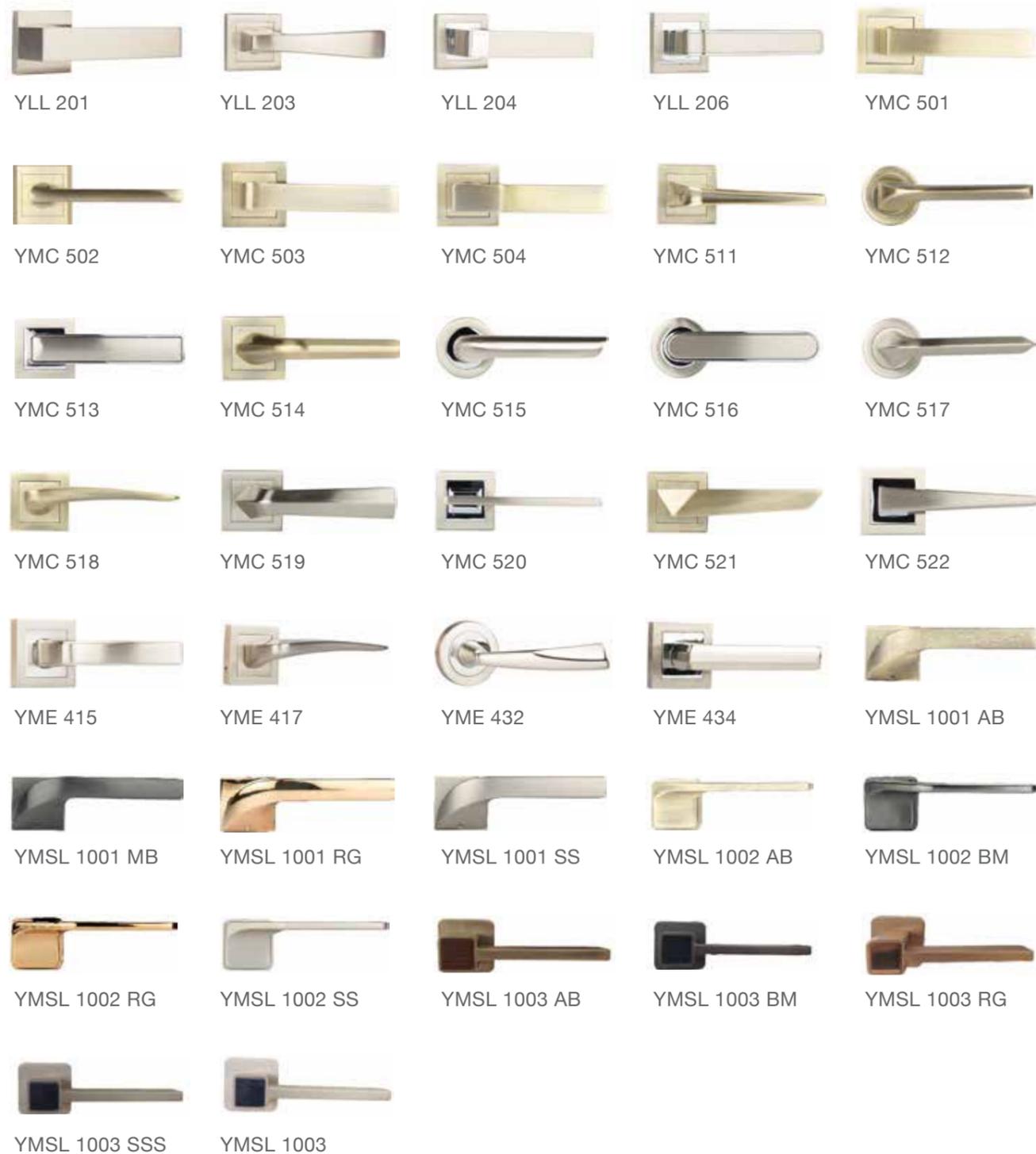
Zinc Alloy Handles

Specifications:

- Zinc alloy lever with spring mechanism
- Electroplated finishes
- Spindle (8x8mm) and fixings included
- Spindle with secure grub screw fixing

Features:

- Suitable for locks with 8mm square hub
- Rosette with threaded base and cover
- Suitable for doors 35-50mm thick
- Recommended for internal doors



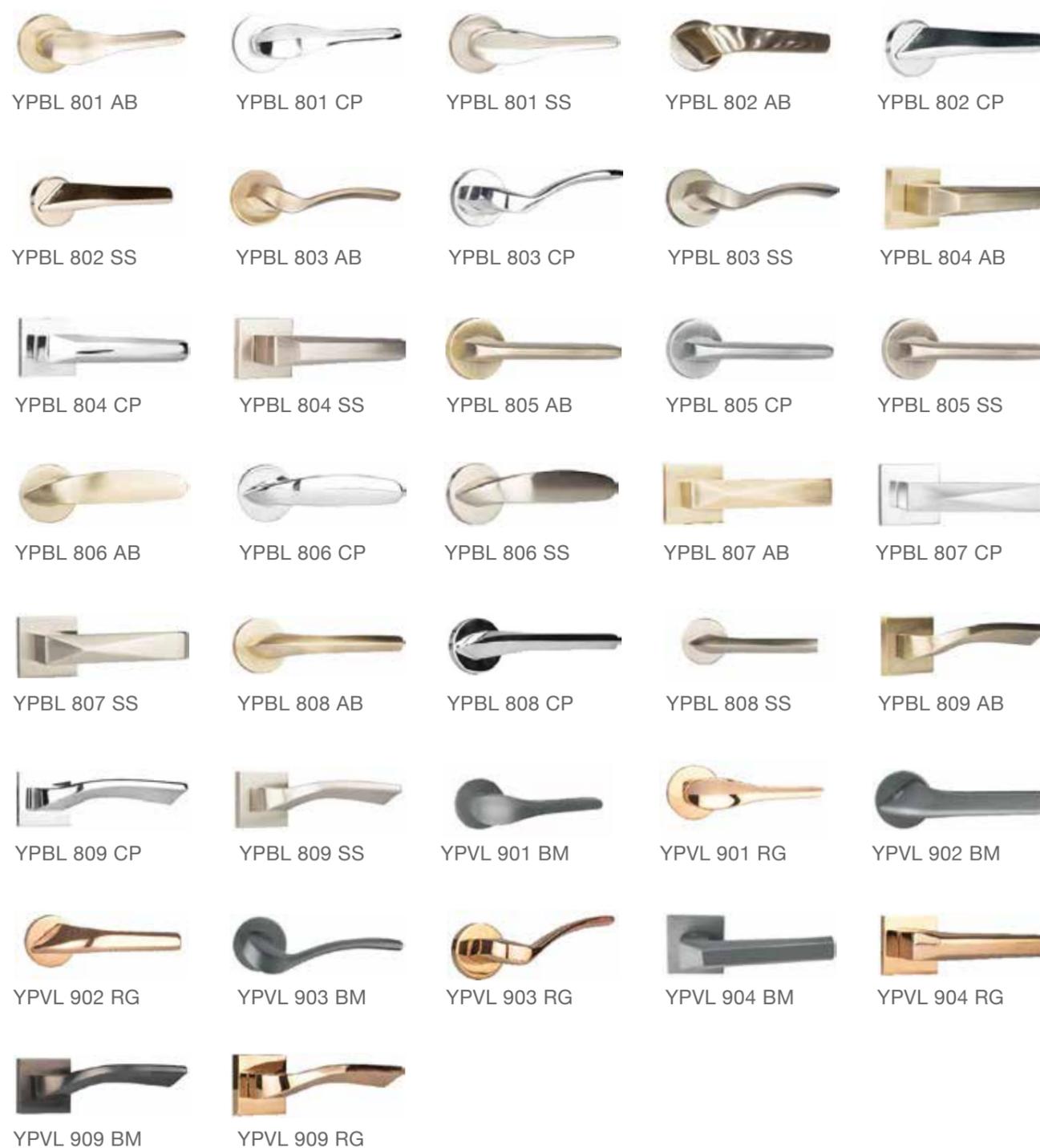
Brass Handles

Specifications:

- Brass designer lever with spring mechanism
- Electroplated finishes
- Spindle (8x8mm) and fixings included
- Spindle with secure grub screw fixing

Features:

- Suitable for locks with 8mm square hub
- Rosette with threaded base and cover
- Suitable for doors 35-50mm thick
- Recommended for internal doors



Stainless Steel Pull Handles

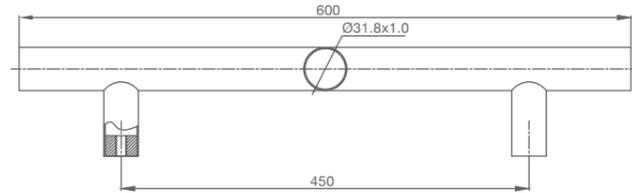
Single H pull handle - Back fixing

Specifications:

- AISI grade 304
- H-shape, back fixing
- Length 600mm, fixing center size 450mm, Ø32mm

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8245-32-31-50	H-Type pull handle, one side fixing, SS 304, C/C 450xØ32mm, SSM, Box	PC	SS MATT	SS304	BOX	780

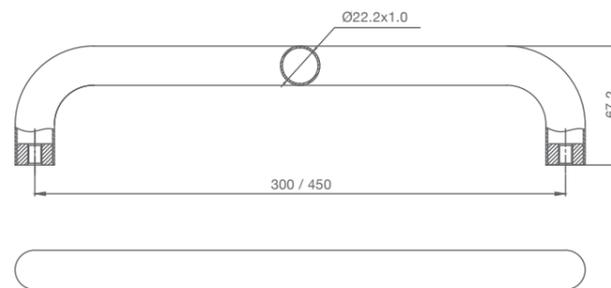
Single D pull handle - Back fixing

Specifications:

- AISI grade 304
- D-shape, back fixing
- Fixing center size 300mm or 450mm, Ø19 and 22mm

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8030-19-31-50	D-Type pull handle, one side fixing, SS 304, O/A300xØ19mm, SSM, Box	PR	SS MATT	SS304	BOX	560
35-9004-8130-22-31-50	D-Type pull handle, one side fixing, SS 304, 300xØ22mm, SSM, Box	PR	SS MATT	SS304	BOX	560
35-9004-8145-22-31-50	D-Type pull handle, one side fixing, SS 304, 450xØ22mm, SSM, Box	PR	SS MATT	SS304	BOX	560

Stainless Steel Pull Handles

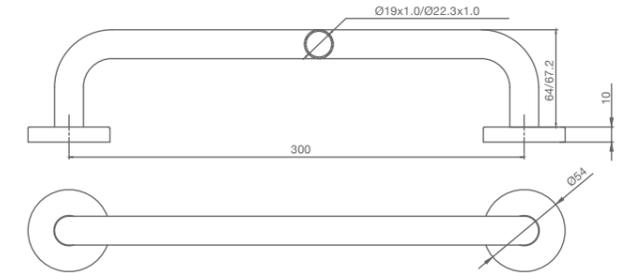
Single D pull handle - Concealed fixing

Specifications:

- AISI grade 304
- D-shape with rosettes, concealed fixing
- Fixing center size 300mm, Ø19 or 22mm

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8230-19-31-50	D-Type pull handle, one side fixing with escutcheon, SS 304, concealed fixing, O/A300xØ19mm, SSM, Box	PC	SS MATT	SS 304	BOX	610
35-9004-8230-22-31-50	D-Type pull handle, one side fixing with escutcheon, SS 304, concealed fixing, O/A300xØ22mm, SSM, Box	PC	SS MATT	SS 304	BOX	650

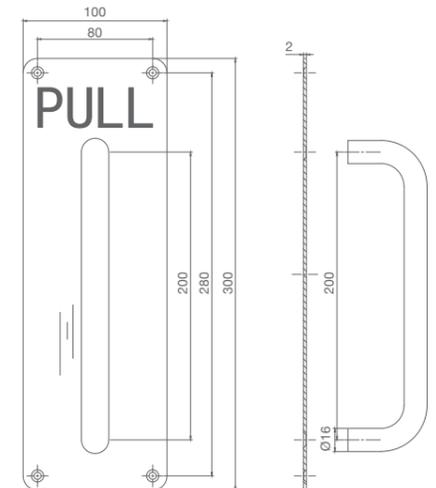
Single pull handle on plate

Specifications:

- AISI grade 304
- D Handle on plate with "PULL" marking
- Plate size 300x100x2mm
- Handle size 200xØ19

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8820-19-31-50	Single pull handle on 300x100mm plate	PR	SS MATT	SS304	BOX	750

Stainless Steel Pull Handles

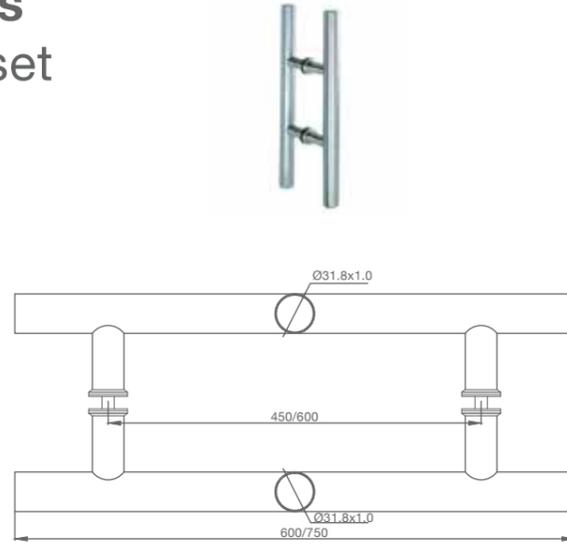
Back to Back H pull handle set

Specifications:

- AISI grade 304
- T-shape, back to back fixing
- Length 600mm or 750mm, Ø32mm
- Fixing center size 450mm or 600mm

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8445-32-31-50	H-Type pull handle, back to back fixing, SS 304, O/A600, C/C450xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1160
35-9004-8460-32-31-50	H-Type pull handle, back to back fixing, SS 304, O/A750, C/C600xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1430

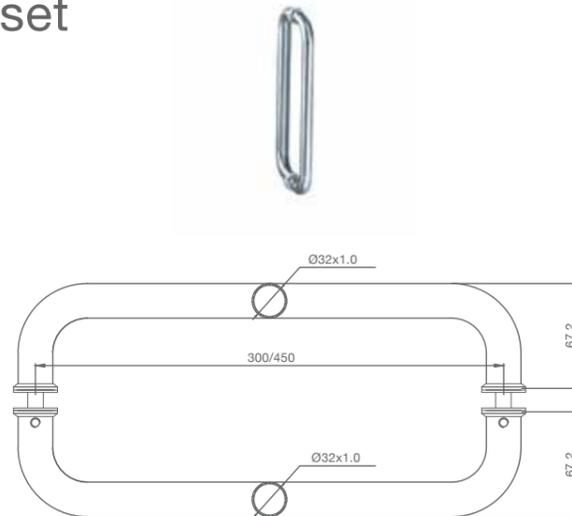
Back to Back D pull handle set

Specifications:

- AISI grade 304
- D-shape, back to back fixing
- Fixing center size 300mm, or 450mm, Ø32mm

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8330-32-31-50	D-Type pull handle, back to back fixing, SS 304, O/A300xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1160
35-9004-8345-32-31-50	D-Type pull handle, back to back fixing, SS 304, O/A450xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1430

Stainless Steel Pull Handles

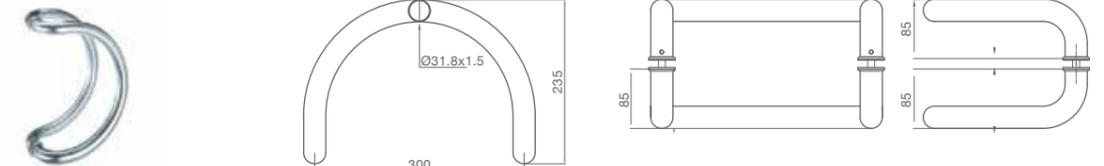
Back to Back C pull handle set

Specifications:

- AISI grade 304
- C-shape, back to back fixing
- Fixing center size 300mm, Ø32mm

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8230-19-31-50	D-Type pull handle, one side fixing with escutcheon, SS 304, concealed fixing, O/A300xØ19mm, SSM, Box	PC	SS MATT	SS 304	BOX	610
35-9004-8230-22-31-50	D-Type pull handle, one side fixing with escutcheon, SS 304, concealed fixing, O/A300xØ22mm, SSM, Box	PC	SS MATT	SS 304	BOX	650

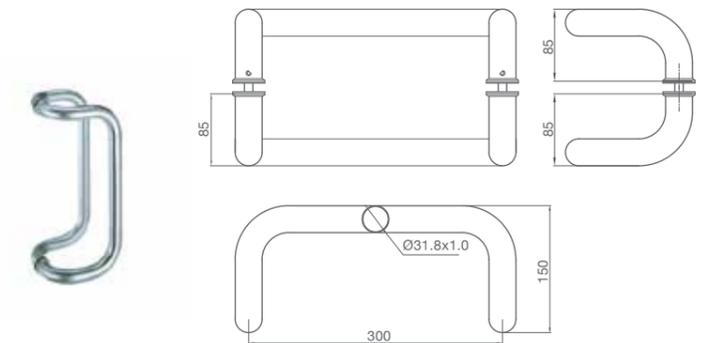
Back to Back cranked D pull handle set

Specifications:

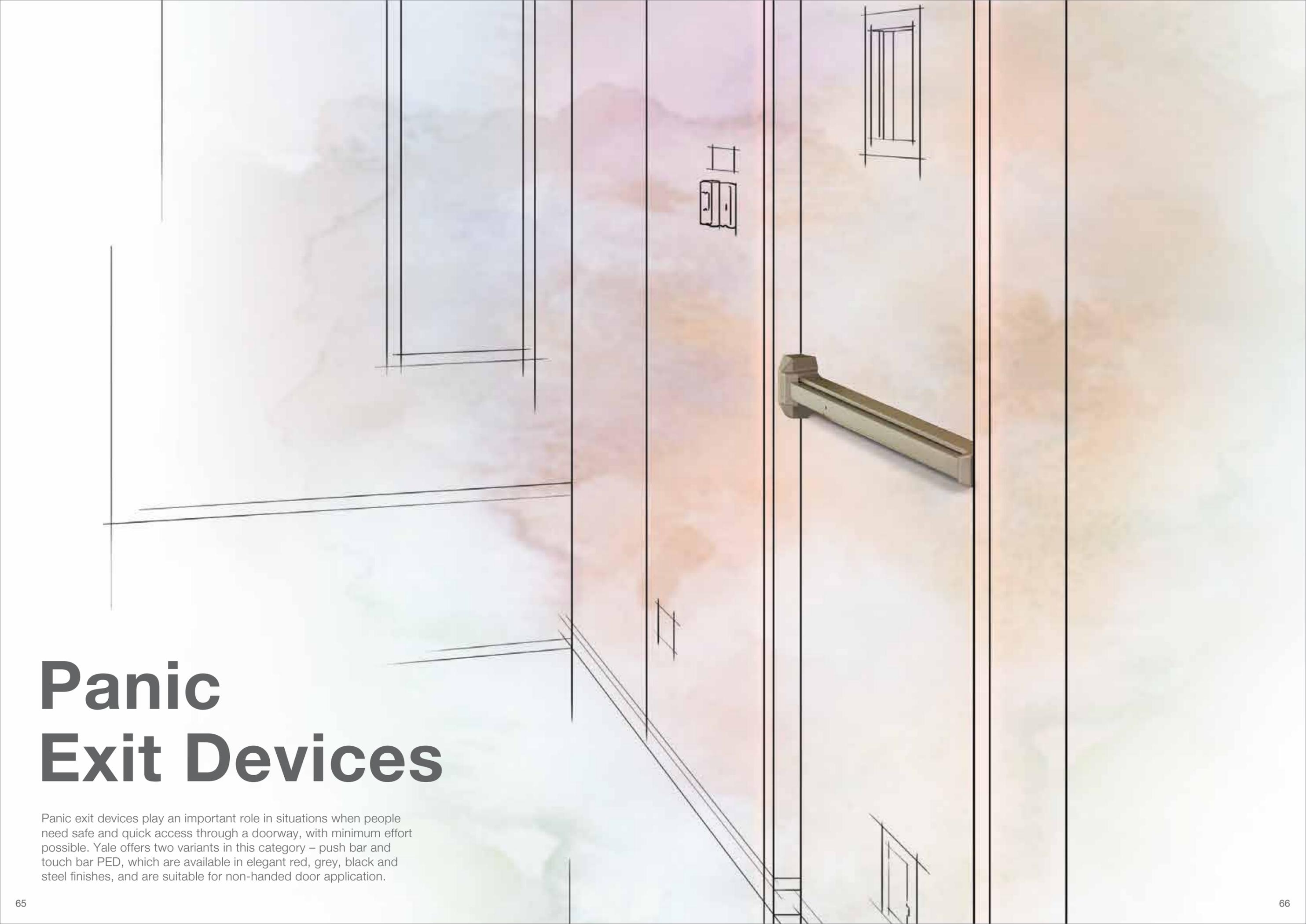
- AISI grade 304
- Cranked D-shape, back to back fixing
- Fixing center size 300mm, Ø32mm

Features:

- Satin stainless steel finish
- Special sizes on request for a minimum order quantity



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8630-32-31-50	D-Crank Type pull handle, back to back fixing, SS 304, O/A300xØ32mm, SSM, Box	PR	SS MATT	SS304	BOX	1140



Panic Exit Devices

Panic exit devices play an important role in situations when people need safe and quick access through a doorway, with minimum effort possible. Yale offers two variants in this category – push bar and touch bar PED, which are available in elegant red, grey, black and steel finishes, and are suitable for non-handed door application.

BS EN Standards for PED

BS EN 179 - Emergency Exit Devices

This standard covers devices to be used in emergency situations where people are familiar with the emergency exit and it's hardware and therefore a panic situation is most unlikely to develop. Devices operated by a lever handle or push pad may therefore be used.

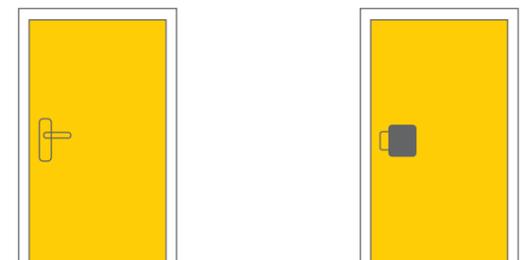
BS EN 1125 - Panic Exit Devices

Experience relating to escape from buildings and general safety have made it desirable that doors at final exits in public buildings, places of entertainment, shops, etc. should be fitted with panic devices operated by a horizontal bar. The emphasis for products covered by this standard is on safe exit rather than security.

These standards provide details on product types, classification by use, test cycles, door mass, corrosion resistance, as well as definitions, product performance requirements, test apparatus, test methods and marking of products. In addition, the published standards include annexes illustrating the various points made through diagrams and supplementary text.

BS EN 179 - Scope

The main purpose of the performance requirements of this standard is to give safe and effective escape through a doorway with one single operation to release the device. However, escape can require prior knowledge of the operation of the device which is consequently considered suitable for locked doors on escape routes only where panic situations are not foreseen.

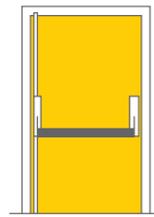


Type A: Emergency device lever handle

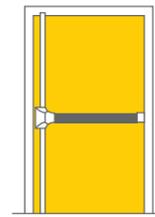
Type B: Emergency device push pad

BS EN 1125 - Scope

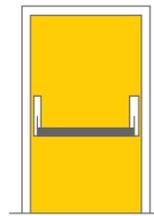
The main purpose of the performance requirements of this standard is to give safe and effective escape through a doorway with minimum effort and without prior knowledge of the device, i.e. for locked doors on escape routes where panic situations can be foreseen.



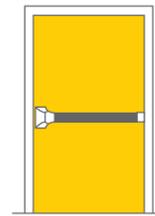
Type A: Panic bolt push bar



Type B: Panic bolt touch bar



Type A: Panic latch push bar

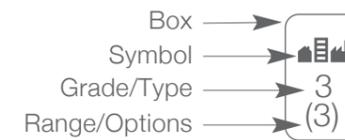


Type B: Panic latch touch bar

Classification

BS EN 1125 and BS EN 179 classify panic and emergency exit devices by using a 10 digit coding system. A similar classification applies to all building hardware product standards so that complementary items of hardware can be specified to, for instance, a common level of corrosion resistance, category of use, etc. Each digit refers to a particular feature of the product measured against the standard's performance requirements.

Download PED EN Standards



The icon above is for a product which meets Grade 3 in the category of use classification, where EN 1125 and EN 179 stipulate only grade 3.

Digit 1 - Category of use

Only one category is identified, that being

Grade 3: High frequency of use by public and others with little incentive to exercise care.



Digit 2 - Number of test cycles

Two categories of durability are defined:

Grade 6: 100,000 cycles
Grade 7: 200,000 cycles



Digit 3 - Test door mass

Three categories of test door mass are identified:

Grade 5: up to 100 kg
Grade 6: up to 200 kg
Grade 7: over 200 kg



Digit 4 - Fire resistance

Three categories of fire door resistance are identified:

Grade 0: Not approved for use on fire/smoke door assemblies
Grade A: Suitable for use on smoke door assemblies, subject to satisfactory assessment of the contribution of the panic/emergency device to the smoke resistance of specified smoke door assemblies

Grade B: Suitable for use on fire/smoke door assemblies, subject to satisfactory assessment of the contribution of the panic/emergency device to the fire resistance of specified fire/smoke door assemblies.

Such assessments are outside the scope of this European standard (see EN 1634-1)



Digit 5 - Safety

All panic and emergency devices have a critical safety function therefore only the top **Grade 1:** is identified.



Digit 6 - Corrosion resistance

Two grades of corrosion resistance are identified according to EN 1670:

Grade 3: high resistance (96 salt spray hours)
Grade 4: very high resistance (240 salt spray hours)



Digit 7 - Security

Products covered by BS EN 179 have 4 identified categories and generally have the opportunity of greater security against forced opening than devices covered by BS EN 1125.

BS EN 179

Grade 2: 1000 N
Grade 3: 2000 N
Grade 4: 3000 N
Grade 5: 5000 N

BS EN 1125

Only one category of security is identified:

Grade 2: 1000 N panic devices are primarily for the operation of a door from the inside. Safety considerations will always be given priority over security.

Digit 8 - Projection of device

Two grades are identified relating to the projection of the device from the door face:

Grade 1: projection up to 150 mm (large projection)

Grade 2: projection up to 100 mm (standard projection)

Digit 9 - Type of device

Two categories are identified for each standard: BS EN 179

Type A: emergency device with lever handle operation

Type B: emergency device with push or pull pad operation

Type A: panic device with push bar operation

Type B: panic device with touch bar operation

Digit 10 - Field of application

EN 179

A: Outward opening - Single & double exit doors, active & inactive leaf

B: Outward opening - Single exit door only

C: Outward opening - Double exit door, inactive door

D: Inward opening - Single exit only

EN 1125

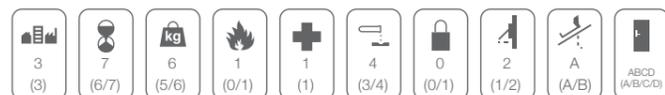
A: Outward opening - Single & double exit doors; active & inactive leaf

B: Outward opening - Single exit door only

C: Outward opening - Double exit door; inactive door

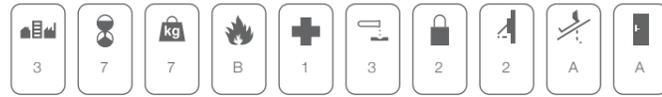
Example

The following marking denotes a panic exit device tested to 200,000 operations for a door mass up to 200 kg, suitable for fire door use with very high corrosion resistance with standard bar projection for use on single & double doors.



Features	429 Series PED	445 Series Single Point & 445 Series Multi Point	Millenium Series Single Point & Millenium Series Double Point
Push bar material	Aluminium	Aluminium	Aluminium
Head cover material	Steel	Steel	Zinc alloy
Rod material	Steel	Steel	Steel
Latch bolt	Steel	Steel	Steel
Strike	Steel	Steel	Steel
Projection	96 mm	63 mm	66 mm
Reversible	Yes	Yes	Yes
Door type	All	All	All
Mounting height	2225 mm	2225 mm	2225 mm
Cylinders	Euro profile	Euro profile	No
Dogging	Yes	Yes	Yes
Operation	Inside by slight pressure on any point of the push bar all time / outside with cylinder or specific handle	Inside by slight pressure on any point of the push bar all time / outside with cylinder or specific handle	Inside by slight pressure on any point of the push bar all time / outside with cylinder or specific handle
Head cover	34x103	63x152 (Single Point) 32x103 (Double Point)	62x66
Standard finishes	Black	Black	Black
3' Standard	850-1150 mm	850-1150 mm (Single Point) 900 mm (Double Point)	900 mm
4' Standard	Painted (black, grey, white)	Painted (black, grey, white)	Steel
Top and bottom rod length for 7' door	1962 mm	1962 mm	1962 mm
Top and bottom rod length for 8' door	1962 mm	1962 mm	1962 mm
Electric options	No	No	No
Fire testing duration	60'	60'	60'
Certificate of constancy of performance			

Surface-Mounted Panic Exit Devices Ministar 429

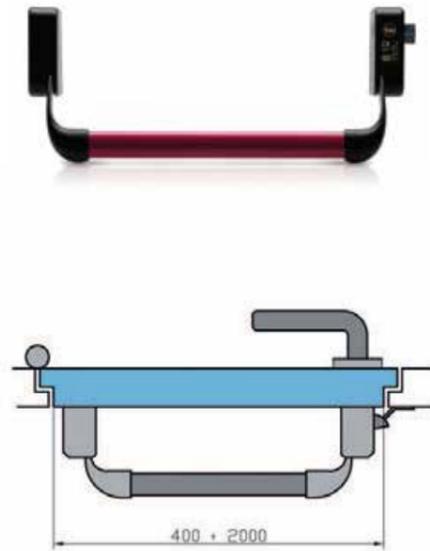
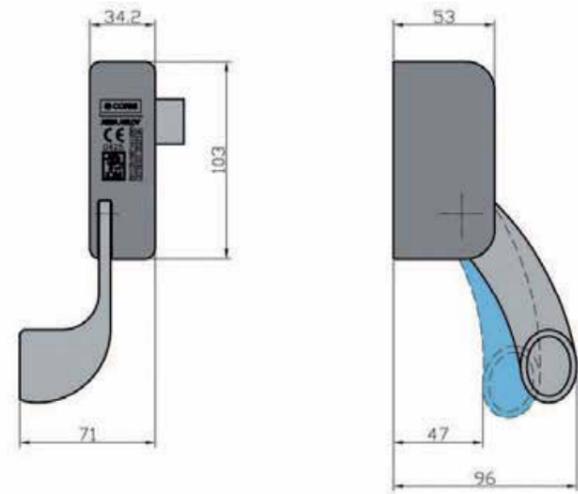


Specifications:

- Reversible surface-mounted panic exit device

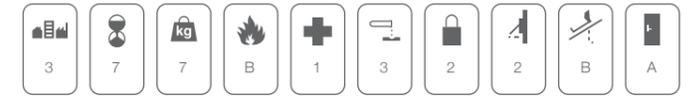
Features:

- For one, two or three locking points applications
- Available in black, grey, white, chrome, gold and stainless steel finish
- Bar, latches kit and vertical rods to be ordered separately
- Suitable for fire rated doors
- CE marked. In conformity with the standard EN 1125
- Micro switch device available on request



SKU	Description	UOM	Fin	Mat	PKG	WGT
4290060000	MiniStar 429 Series, Push Bar PED, CE, EN 1125, Reversible, 1/2/3 locking points option, Black, Box	PR	Black	ALU	BOX	2600
429060000GR	MiniStar 429 Series, Push Bar PED, CE, EN 1125, Reversible, 1/2/3 locking points option, Grey, Box	PR	Grey	ALU	BOX	2600
429060000IN	MiniStar 429 Series, Push Bar PED, CE, EN 1125, Reversible, 1/2/3 locking points option, SSM, Box	PR	SSM	ALU	BOX	2600
429060000WH	MiniStar 429 Series, Push Bar PED, CE, EN 1125, Reversible, 1/2/3 locking points option, White, Box	PR	Black	ALU	BOX	2600
429060000CR	MiniStar 429 Series, Push Bar PED, CE, EN 1125, Reversible, 1/2/3 locking points option, Grey, Box	PR	Grey	ALU	BOX	2600
429060000AU	MiniStar 429 Series, Push Bar PED, CE, EN 1125, Reversible, 1/2/3 locking points option, SSM, Box	PR	SSM	ALU	BOX	2600

Surface-Mounted Panic Exit Devices Millenium

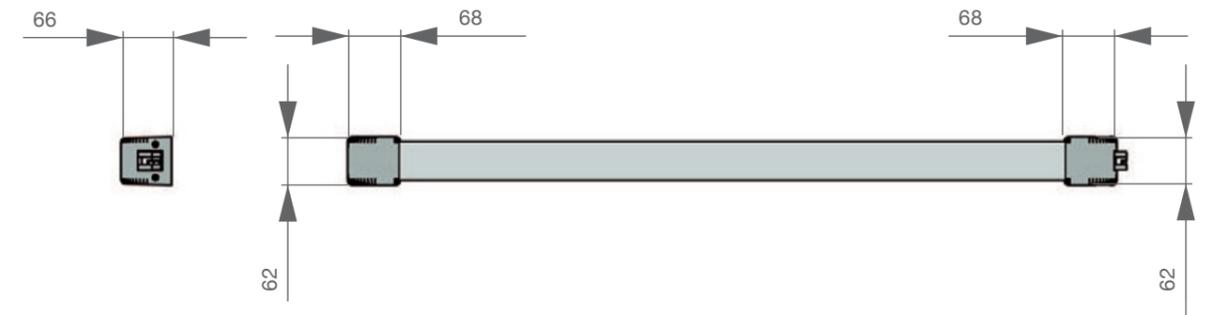


Specifications:

- Reversible surface mounted panic exit device
- CE marked. In conformity with Standard EN 1125

Features:

- For one, two or three locking points applications
- Suitable for single and double leaf doors (with a pillar profile of more than 55mm)
- Burglar-proof device
- Suitable for fire rated doors
- Aluminium bar
- Available in black, grey, white, gold and stainless steel (simil Inox) finish
- Bar, latches kit and vertical rods to be ordered separately
- Micro switch device available on request



SKU	Description	UOM	Fin	Mat	PKG	WGT
F19700	Millenium Series, Touch Pad PED, CE, EN 1125, Reversible, 1/2/3 locking points option, Black, Box	SET	Black	ALU, STL	BOX	1600
F19700/GR	Millenium Series, Touch Pad PED, CE, EN 1125, Reversible, 1/2/3 locking points option, Grey, Box	SET	Grey	ALU, STL	BOX	1600
F19700/WH	Millenium Series, Touch Pad PED, CE, EN 1125, Reversible, 1/2/3 locking points option, White, Box	SET	White	ALU, STL	BOX	1600
F19700/AU	Millenium Series, Touch Pad PED, CE, EN 1125, Reversible, 1/2/3 locking points option, Gold, Box	SET	Gold	ALU, STL	BOX	1600
F19700/IN	MiniStar 429 Series, Push Bar PED, CE, EN 1125, Reversible, 1/2/3 locking points option, SSM, Box	SET	SSM	ALU, STL	BOX	1600

Surface-Mounted Panic Exit Devices Push 445



Specifications:

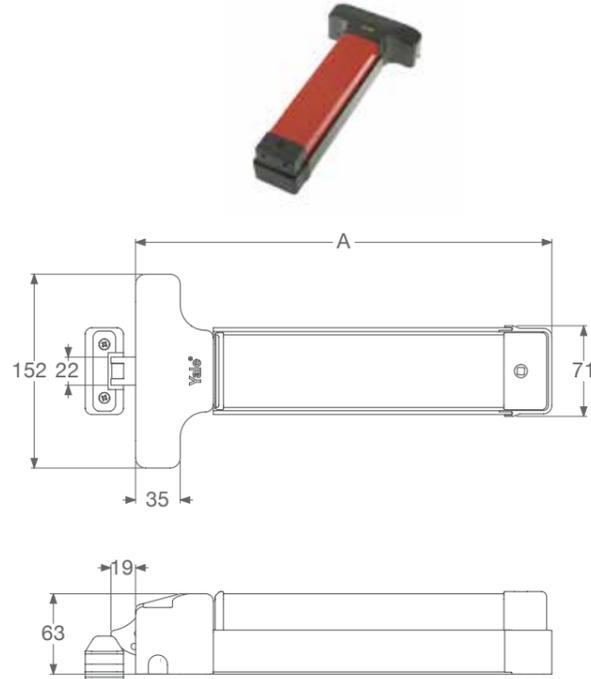
- Reversible, surface-mounted push bar handle
- Standard version with the cover in black painted steel and red horizontal bar

Features:

- Suitable for 400 to 1310mm wide doors
- Adjustment 150-460mm
- For one, two or three locking points applications
- Latches kit and vertical rods to be ordered separately
- Suitable for fire rated doors
- CE marked. In conformity with the standard 1125

*For the special finishes add at the end of the below codes:

- GR = Grey painted
- IN = Stainless steel finish
- SC = Chrome



SKU	Description	UOM	Fin	Mat	PKG	WGT
445Y532000	Touch Pad 445 Series PED, CE, EN 1125, Reversible, 1/2/3 locking points option, 32mm, Black/Red, Box	SET	BLACK/RED	ALU	BOX	2260
445Y564000	Touch Pad 445 Series PED, CE, EN 1125, Reversible, 1/2/3 locking points option, 32mm, Black/Red, Box	SET	BLACK/RED	ALU	BOX	3380
445Y584000	Touch Pad 445 Series PED, CE, EN 1125, Reversible, 1/2/3 locking points option, 32mm, Black/Red, Box	SET	BLACK/RED	ALU	BOX	3700
445Y511000	Touch Pad 445 Series PED, CE, EN 1125, Reversible, 1/2/3 locking points option, 32mm, Black/Red, Box	SET	BLACK/RED	ALU	BOX	5000
445Y512000	Touch Pad 445 Series PED, CE, EN 1125, Reversible, 1/2/3 locking points option, 32mm, Black/Red, Box	SET	BLACK/RED	ALU	BOX	5500
445Y513000	Touch Pad 445 Series PED, CE, EN 1125, Reversible, 1/2/3 locking points option, 32mm, Black/Red, Box	SET	BLACK/RED	ALU	BOX	6000

Accessories for panic exit devices Bars for Ministar 429

Specifications:

- Oval bar



SKU	Description	UOM	Fin	Mat	PKG	WGT
PAM26000100	Oval bar for Ministar 429 Push Bar PED, 900mm, Silv Anodized, Box	PC	SLV ANZ	ALU	BOX	470
PAM26000200	Oval bar for Ministar 429 Push Bar PED, 1200mm, Silv Anodized, Box	PC	SLV ANZ	ALU	BOX	824
PAM26000300	Oval bar for Ministar 429 Push Bar PED, 1500mm, Silv Anodized, Box	PC	SLV ANZ	ALU	BOX	1180

Accessories for Panic Exit Devices Bars for Ministar 429

SKU	Description	UOM	FIN	MAT	PKG	WGT
PAM26000101	Oval bar for Ministar 429 Push Bar PED, 900mm, SLV ANZ, Box	PC	SLV ANZ	ALU	BOX	470
PAM26000201	Oval bar for Ministar 429 Push Bar PED, 1200mm, SLV ANZ, Box	PC	SLV ANZ	ALU	BOX	824
PAM26000301	Oval bar for Ministar 429 Push Bar PED, 1500mm, SLV ANZ, Box	PC	SLV ANZ	ALU	BOX	1180
PAM26000114	Oval bar for Ministar 429 Push Bar PED, 900mm, Red, Box	PC	RED	ALU	BOX	470
PAM26000214	Oval bar for Ministar 429 Push Bar PED, 1200mm, Red, Box	PC	RED	ALU	BOX	824
PAM26000314	Oval bar for Ministar 429 Push Bar PED, 1500mm, Red, Box	PC	RED	ALU	BOX	1180
PAM26000117	Oval bar for Ministar 429 Push Bar PED, 900mm, Grey, Box	PC	GREY	ALU	BOX	470
PAM26000217	Oval bar for Ministar 429 Push Bar PED, 1200mm, Grey, Box	PC	GREY	ALU	BOX	824
PAM26000317	Oval bar for Ministar 429 Push Bar PED, 1500mm, Grey, Box	PC	GREY	ALU	BOX	1180
PAM26000110	Oval bar for Ministar 429 Push Bar PED, 900mm, SSP, Box	PC	SSP	ALU	BOX	470
PAM26000210	Oval bar for Ministar 429 Push Bar PED, 1200mm, SSP, Box	PC	SSP	ALU	BOX	824
PAM26000310	Oval bar for Ministar 429 Push Bar PED, 1500mm, SSP, Box	PC	SSP	ALU	BOX	1180

Accessories for Panic Exit Devices Side and vertical locking latches kit

Features:

- Suitable for Ministar 429 and Push 445

SKU	Description	UOM	FIN	MAT	PKG	WGT
0342900Y00	Vertical locking latches kit with strike plates, for 429 & 445 series, Black, Box	PC	BLACK	ALU	BOX	1000
0342900Y50	Vertical locking latches kit with strike plates, for 429 & 445 series, Black, Box	PC	BLACK	ALU	BOX	1000
0342900Y00GR	Vertical locking latches kit with strike plates, for 429 & 445 series, Grey, Box	PC	GREY	ALU	BOX	1000
0342900Y50GR	Vertical locking latches kit with strike plates, for 429 & 445 series, Grey, Box	PC	GREY	ALU	BOX	1000
0342900Y00IN	Vertical locking latches kit with strike plates, for 429 & 445 series, SSM, Box	PC	SSM	ALU	BOX	1000
0342900Y50IN	Vertical locking latches kit with strike plates, for 429 & 445 series, SSM, Box	PC	SSM	ALU	BOX	1000
0342900Y00CR	Vertical locking latches kit with strike plates, for 429 & 445 series, Polished Chrome, Box	PC	POLISHED CHROME	ALU	BOX	1000
0342900Y50CR	Vertical locking latches kit with strike plates, for 429 & 445 series, Polished Chrome, Box	PC	POLISHED CHROME	ALU	BOX	1000
0342900Y00AU	Vertical locking latches kit with strike plates, for 429 & 445 series, Gold, Box	PC	GOLD	ALU	BOX	1000
0342900Y50AU	Vertical locking latches kit with strike plates, for 429 & 445 series, Gold, Box	PC	GOLD	ALU	BOX	1000
0342900Y00SC	Vertical locking latches kit with strike plates, for 429 & 445 series, Satin Chrome, Box	PC	SC	ALU	BOX	1000
0342900Y50SC	Vertical locking latches kit with strike plates, for 429 & 445 series, Satin Chrome, Box	PC	SC	ALU	BOX	1000
0342900Y00WH	Vertical locking latches kit with strike plates, for 429 & 445 series, White, Box	PC	WHITE	ALU	BOX	1000
0342900Y50WH	Vertical locking latches kit with strike plates, for 429 & 445 series, White, Box	PC	WHITE	ALU	BOX	1000

Accessories for Panic Exit Devices

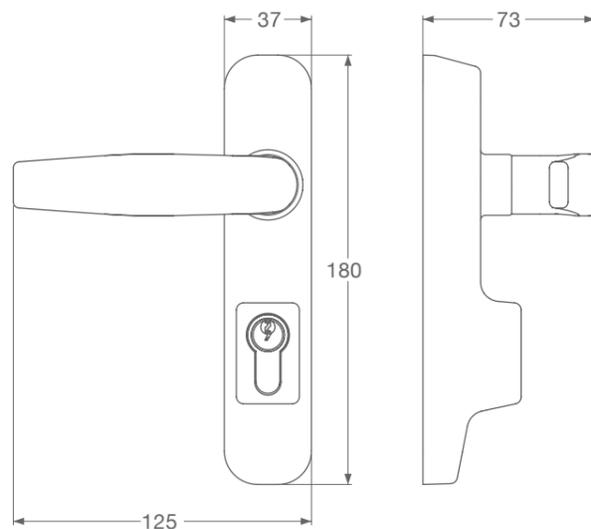
Jolly handle kit with cylinder

Specifications:

- External Rim handle Kit with cylinder included
- Panic exit bar can be operated externally by the handle. The cylinder locks/unlocks the handle

Features:

- Suitable for Push 455, Star 464 panic exit devices
- Black and stainless steel finishes available



SKU	Description	UOM	FIN	MAT	PKG	WGT
04480Y8000	Jolly handle kit with cylinder, for 445 & 464 series, Black, Box	PC	BLACK	ALU, STL	BOX	1100
04480Y8000IN	Jolly handle kit with cylinder, for 445 & 464 series, SSM, Box	PC	SSM	ALU, STL	BOX	1100
04480Y8000GR	Jolly handle kit with cylinder, for 445 & 464 series, Grey, Box	PC	GREY	ALU, STL	BOX	1100
04480Y8000WH	Jolly handle kit with cylinder, for 445 & 464 series, White, Box	PC	WHITE	ALU, STL	BOX	1100
04480Y8000CR	Jolly handle kit with cylinder, for 445 & 464 series, Satin Chrome, Box	PC	SC	ALU, STL	BOX	1100
04480Y8000AU	Jolly handle kit with cylinder, for 445 & 464 series, Gold, Box	PC	GOLD	ALU, STL	BOX	1100

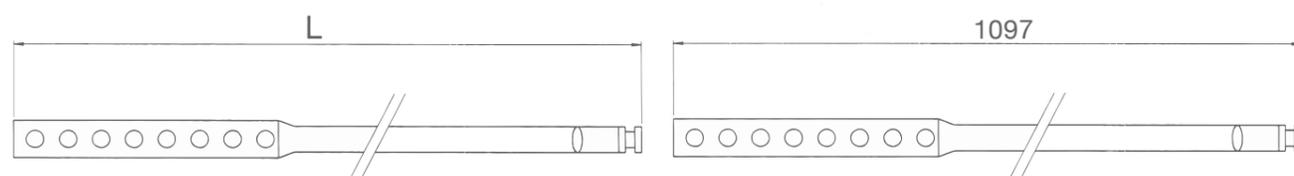
Vertical rods kit with covers

Specifications:

- Vertical Rods kit with covers

Features:

- Suitable for Ministar 429 panic exit devices



Accessories for Panic Exit Devices

Vertical rods kit with covers

SKU	Description	UOM	FIN	MAT	PKG	WGT
0444400Y00	Vertical locking rod with covers, for 429 series, 1162mm, Black, Box	SET	BLACK	ALU, STL	BOX	1000
0444400Y00IN	Vertical locking rod with covers, for 429 series, 1162mm, SSM, Box	SET	SSM	ALU, STL	BOX	1000
0444400Y00GR	Vertical locking rod with covers, for 429 series, 1162mm, Grey, Box	SET	GREY	ALU, STL	BOX	1000
0444400Y00WH	Vertical locking rod with covers, for 429 series, 1162mm, White, Box	SET	WHITE	ALU, STL	BOX	1000
0444400Y00CR	Vertical locking rod with covers, for 429 series, 1162mm, Polished Chrome, Box	SET	POLISHED CHROME	ALU, STL	BOX	1000
0444400Y00AU	Vertical locking rod with covers, for 429 series, 1162mm, Gold, Box	SET	GOLD	ALU, STL	BOX	1000
0444401Y00V	Vertical locking rod with covers, for 429 series, 1362mm, Black, Box	SET	BLACK	ALU, STL	BOX	1310
0444401Y00IN	Vertical locking rod with covers, for 429 series, 1362mm, SSM, Box	SET	SSM	ALU, STL	BOX	1310
0444401Y00GR	Vertical locking rod with covers, for 429 series, 1362mm, Grey, Box	SET	GREY	ALU, STL	BOX	1310
0444401Y00WH	Vertical locking rod with covers, for 429 series, 1362mm, White, Box	SET	WHITE	ALU, STL	BOX	1310
0444401Y00CR	Vertical locking rod with covers, for 429 series, 1362mm, Polished Chrome, Box	SET	POLISHED CHROME	ALU, STL	BOX	1310
0444401Y00AU	Vertical locking rod with covers, for 429 series, 1362mm, Gold, Box	SET	GOLD	ALU, STL	BOX	1310
0444402Y00V	Vertical locking rod with covers, for 429 series, 1562mm, Black, Box	SET	BLACK	ALU, STL	BOX	1400
0444402Y00GR	Vertical locking rod with covers, for 429 series, 1562mm, SSM, Box	SET	SSM	ALU, STL	BOX	1400
0444402Y00IN	Vertical locking rod with covers, for 429 series, 1562mm, Grey, Box	SET	GREY	ALU, STL	BOX	1400
0444402Y00WH	Vertical locking rod with covers, for 429 series, 1562mm, White, Box	SET	WHITE	ALU, STL	BOX	1400
0444402Y00CR	Vertical locking rod with covers, for 429 series, 1562mm, Polished Chrome, Box	SET	POLISHED CHROME	ALU, STL	BOX	1400
0444402Y00AU	Vertical locking rod with covers, for 429 series, 1562mm, Gold, Box	SET	GOLD	ALU, STL	BOX	1400
0444403Y00V	Vertical locking rod with covers, for 429 series, 1762mm, Black, Box	SET	BLACK	ALU, STL	BOX	1490
0444403Y00IN	Vertical locking rod with covers, for 429 series, 1762mm, SSM, Box	SET	SSM	ALU, STL	BOX	1490
0444403Y00WH	Vertical locking rod with covers, for 429 series, 1762mm, Grey, Box	SET	GREY	ALU, STL	BOX	1490
0444403Y00CR	Vertical locking rod with covers, for 429 series, 1762mm, White, Box	SET	WHITE	ALU, STL	BOX	1490
0444403Y00GR	Vertical locking rod with covers, for 429 series, 1762mm, Polished Chrome, Box	SET	POLISHED CHROME	ALU, STL	BOX	1490
0444403Y00AU	Vertical locking rod with covers, for 429 series, 1762mm, Gold, Box	SET	GOLD	ALU, STL	BOX	1490
0444404Y00V	Vertical locking rod with covers, for 429 series, 1962mm, Black, Box	SET	BLACK	ALU, STL	BOX	1690
0444404Y00IN	Vertical locking rod with covers, for 429 series, 1962mm, SSM, Box	SET	SSM	ALU, STL	BOX	1690
0444404Y00WH	Vertical locking rod with covers, for 429 series, 1962mm, Grey, Box	SET	GREY	ALU, STL	BOX	1690
0444404Y00CR	Vertical locking rod with covers, for 429 series, 1962mm, White, Box	SET	WHITE	ALU, STL	BOX	1690
0444404Y00AU	Vertical locking rod with covers, for 429 series, 1962mm, Gold, Box	SET	GOLD	ALU, STL	BOX	1690
0444404Y00GR	Vertical locking rod with covers, for 429 series, 1962mm, Grey, Box	SET	GREY	ALU, STL	BOX	1690

Accessories for Panic Exit Devices Bars for Millenium



SKU	Description	UOM	FIN	MAT	PKG	WGT
F19309/AR	Bars for Millenium 429 Series, 900mm, Silver, Box	PC	SILVER	ALU, STL	BOX	1110
F19309/N	Bars for Millenium 429 Series, 900mm, Black, Box	PC	BLACK	ALU, STL	BOX	1110
F19309/R	Bars for Millenium 429 Series, 900mm, Red, Box	PC	RED	ALU, STL	BOX	1110
F19309/WH	Bars for Millenium 429 Series, 900mm, White, Box	PC	WHITE	ALU, STL	BOX	1110
F19309/AU	Bars for Millenium 429 Series, 900mm, Gold, Box	PC	GOLD	ALU, STL	BOX	1110
F19309/IN	Bars for Millenium 429 Series, 900mm, Satin Nickel, Box	PC	SN	ALU, STL	BOX	1344
F19310/AR	Bars for Millenium 429 Series, 1200mm, Silver, Box	PC	SILVER	ALU, STL	BOX	1344
F19310/N	Bars for Millenium 429 Series, 1200mm, Black, Box	PC	BLACK	ALU, STL	BOX	1344
F19310/R	Bars for Millenium 429 Series, 1200mm, Red, Box	PC	RED	ALU, STL	BOX	1344
F19310/WH	Bars for Millenium 429 Series, 1200mm, White, Box	PC	WHITE	ALU, STL	BOX	1344
F19310/AU	Bars for Millenium 429 Series, 1200mm, Gold, Box	PC	GOLD	ALU, STL	BOX	1344
F19310/IN	Bars for Millenium 429 Series, 1200mm, Satin Nickel, Box	PC	SN	ALU, STL	BOX	1644
F19312/AR	Bars for Millenium 429 Series, 1500mm, Silver, Box	PC	SILVER	ALU, STL	BOX	1644
F19312/N	Bars for Millenium 429 Series, 1500mm, Black, Box	PC	BLACK	ALU, STL	BOX	1644
F19312/R	Bars for Millenium 429 Series, 1500mm, Red, Box	PC	RED	ALU, STL	BOX	1644
F19312/WH	Bars for Millenium 429 Series, 1500mm, White, Box	PC	WHITE	ALU, STL	BOX	1644
F19312/AU	Bars for Millenium 429 Series, 1500mm, Gold, Box	PC	GOLD	ALU, STL	BOX	1644
F19312/IN	Bars for Millenium 429 Series, 1500mm, Satin Nickel, Box	PC	SN	ALU, STL	BOX	1644

Accessories for Panic Exit Devices Handles for Millenium

Specifications:

- Available with horizontal or vertical grip

Features:

- Micro-switch version available on request.
To order it, add "MIC" at the end of the code
- Special finishes available on request



SKU	Description	UOM	FIN	MAT	PKG	WGT
F19720	Horizontal grip for PED, Black, Box	PC	BLACK	ALU, STL	BOX	1300
F19720/GR	Horizontal grip for PED, Grey, Box	PC	GREY	ALU, STL	BOX	1300
F19720/WH	Horizontal grip for PED, White, Box	PC	WHITE	ALU, STL	BOX	1300
F19720/AU	Horizontal grip for PED, Gold, Box	PC	GOLD	ALU, STL	BOX	1300
F19720/IN	Horizontal grip for PED, Satin Nickel, Box	PC	SN	ALU, STL	BOX	1300

Latches kit with cover bars

Specifications:

- Suitable for Millenium panic exit device



SKU	Description	UOM	FIN	MAT	PKG	WGT
F9840NEW	Vertical top/bottom with cover, for Millenium PED series, Black, Box	PR	BLACK	ALU, STL	BOX	2700
F9840/GRNEW	Vertical top/bottom with cover, for Millenium PED series, Grey, Box	PR	GREY	ALU, STL	BOX	2700
F9840/WHNEW	Vertical top/bottom with cover, for Millenium PED series, White, Box	PR	WHITE	ALU, STL	BOX	2700
F9840/AUNEW	Vertical top/bottom with cover, for Millenium PED series, Gold, Box	PR	GOLD	ALU, STL	BOX	2700
F9840/INNEW	Vertical top/bottom with cover, for Millenium PED series, Satin Nickel, Box	PR	SN	ALU, STL	BOX	2700
F9841NEW	Vertical top/bottom with cover, for Millenium PED series, Black, Box	PR	BLACK	ALU, STL	BOX	2700
F9841/GRNEW	Vertical top/bottom with cover, for Millenium PED series, Grey, Box	PR	GREY	ALU, STL	BOX	2700
F9841/WHNEW	Vertical top/bottom with cover, for Millenium PED series, White, Box	PR	WHITE	ALU, STL	BOX	2700
F9841/AUNEW	Vertical top/bottom with cover, for Millenium PED series, Gold, Box	PR	GOLD	ALU, STL	BOX	2700
F9841/INNEW	Vertical top/bottom with cover, for Millenium PED series, Satin Nickel, Box	PR	SN	ALU, STL	BOX	2700

Mortice Locks

Yale offers a diverse range of door locking solutions, with mortice locks that are perfectly suitable for residential doors like entrance and internal doors, as well as common area doors like fire exit and double leaf doors. Using high quality stainless steel and ensuring high precision throughout the manufacturing process, Yale guarantees exceptional durability, security and performance for its locks.



Mortice Locks

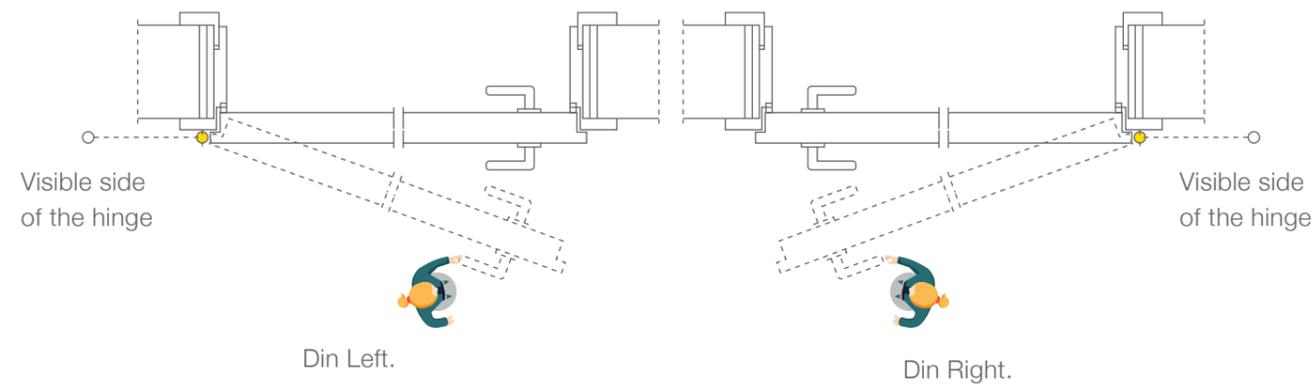
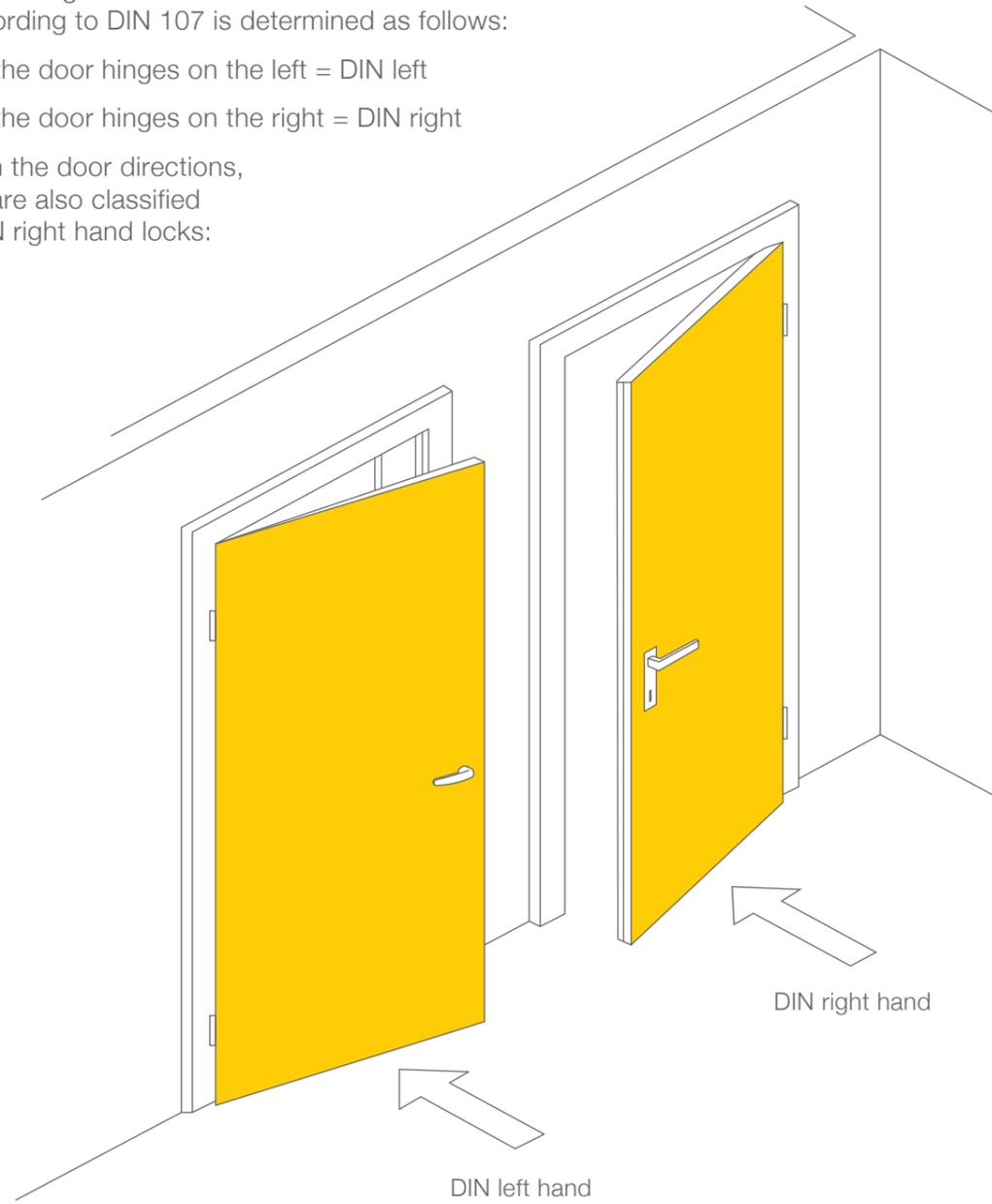
Door direction

Depending on the pivot direction of a door, a door is classified as a left and right hand door. The door direction or side definition according to DIN 107 is determined as follows:

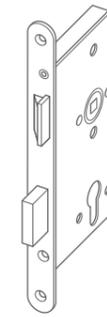
Visible position of the door hinges on the left = DIN left

Visible position of the door hinges on the right = DIN right

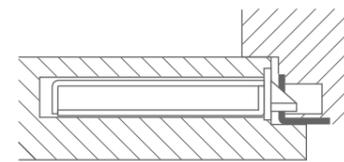
In accordance with the door directions, the mortice locks are also classified as DIN left and DIN right hand locks:



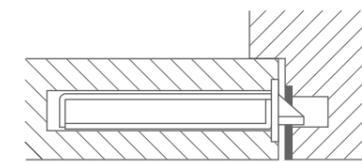
DIN left hand lock
(the straight side of the latch points to the left)



DIN right hand lock
(the straight side of the latch points to the right)

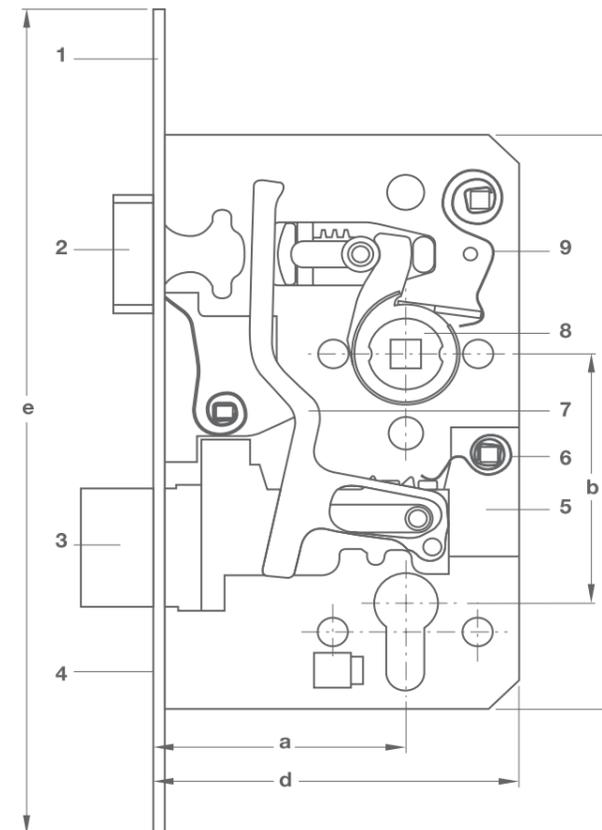


Profile of a rebated door with mortice lock
(forend protruding on one side)



Profile of a flush door with mortice lock
(forend protrudes on both sides)

Parts of Motice Lock



- 1 Forend
 - 2 Latch
 - 3 Deadbolt
 - 4 Screw channel for profile cylinder
 - 5 Tumbler
 - 6 Tumbler spring
 - 7 Key action
 - 8 Lever follower
 - 9 Counter spring
-
- a Backset
 - b Distance
 - c Case height
 - d Case width
 - e Forend length
 - f Forend width

Scope:

This standard covers the requirement and test methods for durability, strength, security and function of all types of mechanical locks and latches (including associated or separately locking plates), intended for use on pedestrian doors in buildings. Excluding electro-mechanically operated locks and striking plates, multipoint locks and their locking plates, locks for windows, padlocks, locks for safes, furniture locks and prison locks.

Classification:

The standard classifies locks and latches using the 11 digit coding system. Each digit relates to a particular feature of the product measured against the standards performance requirements.

BS EN Standards for Mortice Locks



Digit 1: Category of use

Classification is in three grades, grade 1 being the lowest

- Grade 1:** Low frequency. For 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. For 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. For 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 of durability are identified:

- Grade A:** 50,000 cycles, no load on latch bolt
- Grade B:** 100,000 cycles, no load on latch bolt
- Grade C:** 200,000 cycles, no load on latch bolt
- Grade F:** 50,000 cycles, 10N load on latch bolt
- Grade G:** 100,000 cycles, 10N load on latch bolt
- Grade H:** 200,000 cycles, 10N load on latch bolt
- Grade L:** 100,000 cycles, 25N load on latch bolt
- Grade M:** 200,000 cycles, 25N load on latch bolt
- Grade R:** 100,000 cycles, 50N load on latch bolt
- Grade S:** 200,000 cycles, 50N load on latch bolt
- Grade W:** 100,000 cycles, 120N load on latch bolt
- Grade X:** 200,000 cycles, 120N load on latch bolt



Digit 3 - Door mass and closing force

Nine grades of door mass and closing force are identified:

- Grade 1:** Up to 100 kg door mass; 50N maximum closing force
- Grade 2:** Up to 200 kg door mass; 50N maximum closing force
- Grade 3:** Up to 200 kg door mass or specified by the manufacturer; 50N maximum closing force
- Grade 4:** Up to 100 kg door mass; 25N maximum closing force



Digit 4 - Fire resistance

Two grades of suitability for use on fire/smoke doors 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 etc.
- Note 1:** A grade 1 classification means only that the lock has been designed for use on fire/smoke control doors; the actual fire performance achieved (e.g. fire integrity of 30 minutes on a partially glazed timber door etc.) will be contained in a separate fire test report.
- Note 2:** Where a product is intended for fire/smoke use (i.e. "1" in box 4), it must be possible to demonstrate compliance with the Essential Requirements of the Construction Products (Amendments) Regulations. It is recommended that the product should bear the CE mark.



Digit 5: Safety

Only one grade of safety is identified:

- 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 and temperature

Eight grades of corrosion resistance are identified:

- Grade 0:** No defined corrosion resistance; no temperature requirement
- Grade A:** Low corrosion resistance; no temperature requirement
- Grade B:** Moderate corrosion resistance; no temperature requirement
- Grade C:** High corrosion resistance; no temperature requirement
- Grade D:** Very high corrosion resistance; no temperature requirement
- Grade E:** Moderate corrosion resistance; temperature requirement: from -20°C to +80°C
- Grade F:** High corrosion resistance; temperature requirement: from -20°C to +80°C
- Grade G:** Very high corrosion resistance; temperature requirement: from -20°C to +80°C



Digit 7 - Security and drill resistance

Seven grades of security and drill resistance are identified:

- Grade 1:** Minimum security and no drill resistance
- Grade 2:** Low security and no drill resistance
- Grade 3:** Medium security and no drill resistance
- Grade 4:** High security and no drill resistance
- Grade 5:** High security with drill resistance
- Grade 6:** Very high security and no drill resistance
- Grade 7:** Very high security with drill resistance

Download Mortice Lock EN Standards





Digit 8 - Field of door application

Fifteen grades of door application are identified in the table below:

Grade	Type	Application 1	Application 2	Application 3
A	Mortice	Unrestricted application	-	-
B	Mortice	Hinged door	-	-
C	Mortice	Sliding door	-	-
D	Rim	Unrestricted application	-	-
E	Rim	Hinged door	-	-
F	Rim	Sliding door	-	-
G	Bored lock	Unrestricted application	-	-
H	Mortice	Hinged door	Supported	-
J	Rim	Hinged door	Inwards	-
K	Mortice	Hinged door	-	Locked from inside
L	Mortice	Sliding door	-	Locked from inside
M	Rim	Hinged door	-	Locked from inside
N	Rim	Sliding door	-	Locked from inside
P	Mortice	Hinged door	Supported	Locked from inside
R	Rim	Hinged door	Inwards	Locked from inside



Digit 9 - Type of key operation and locking

Nine grades of type of key operation and locking are identified:

Grade 0: Not applicable

Grade A: Cylinder lock or latch; manual locking

Grade B: Cylinder lock or latch; automatic locking

Grade C: Cylinder lock or latch; manual locking with intermediate locking

Grade D: Lever lock or latch; manual locking

Grade E: Lever lock or latch; automatic locking

Grade F: Lever lock or latch; manual locking with intermediate locking

Grade G: Lock or latch without key operation; manual locking

Grade H: Lock without key operation; automatic locking



Digit 10 - Type of spindle operation

Five grades of spindle operation 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 of key identification are identified:

Grade 0: No requirement

Grade A: Minimum three detaining elements

Grade B: Minimum five detaining elements

Grade C: Minimum five detaining elements, extended number of effective differs

Grade D: Minimum six detaining elements

Grade E: Minimum six detaining elements, extended number of effective differs

Grade F: Minimum seven detaining elements

Grade G: Minimum seven detaining elements, extended number of effective differs

Grade H: Minimum eight detaining elements, extended number of effective differs

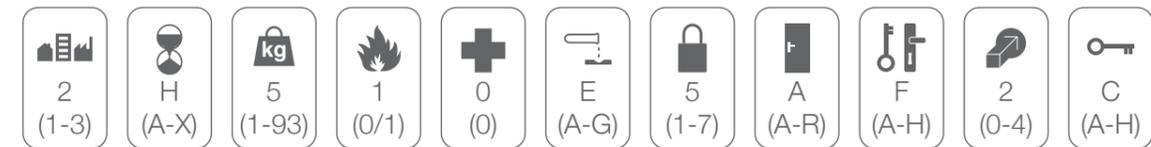
Note: This applies only to lever locks: cylinders are assessed to BS EN 1303: 1998

Classification code:

2:H:5:1:0:E:5:A:F:2:C

Code shown using DHF graphic icons:

EN 12209



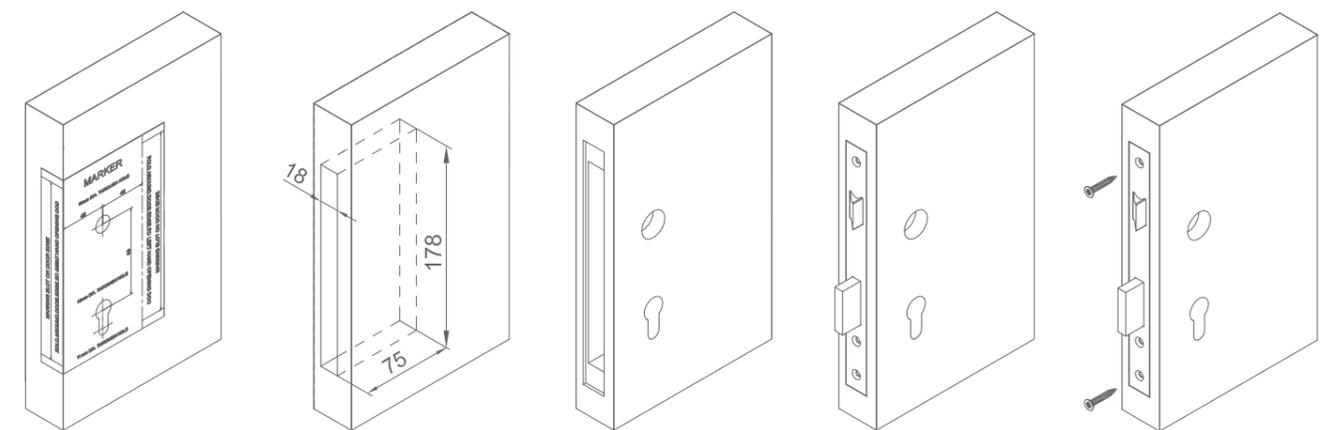
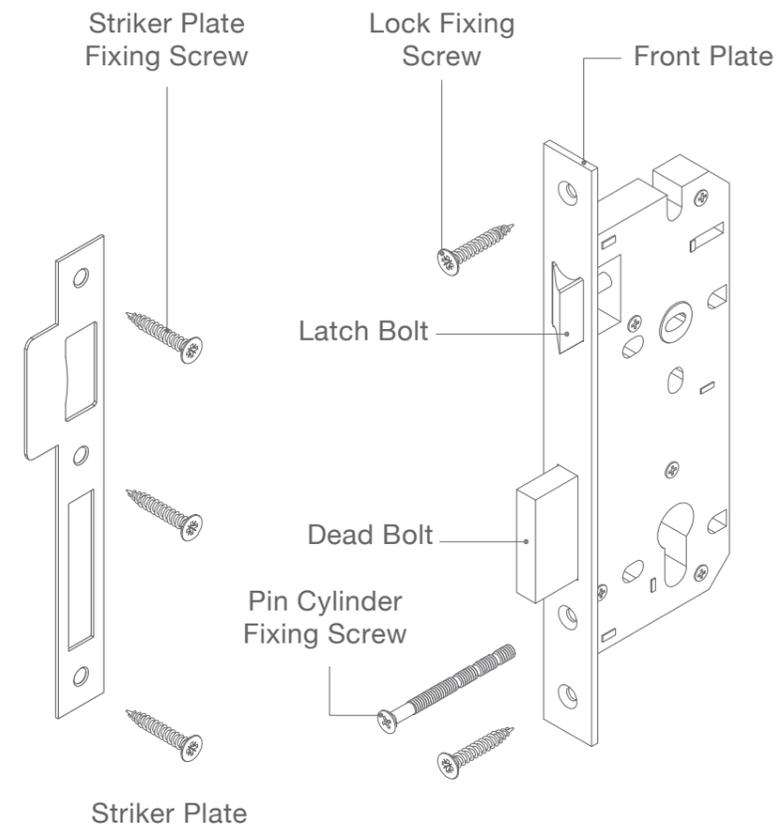
Example:

This indicates a mechanically operated lock and locking plate intended for use in situations where there is an incentive to exercise care; that will withstand a durability of 200,000 cycles with 10N side load on the latch bolt on a door of up to 200 kg in mass; that will close with a maximum force of 25N; that is suitable for use on a fire/smoke resisting door; that has no safety requirement; that has moderate corrosion resistance over a temperature range of -20°C to +80°C; that has high security and drill resistance; that is suitable for unsprung furniture; and that has five detaining elements with a minimum of 10,000 differs.

Features		C Series Sash Lock	C Series Dead Lock	C Series Latch Lock	C Series Nightlatch Lock	Classica Sash Lock
Dimensions	Backset Distance	55mm	55mm	55mm	55mm	45mm
	Center Distance	72mm	72mm	72mm	72mm	85mm
	Forend Thickness	24mm	24mm	24mm	24mm	23mm
	Body Depth	82mm	82mm	82mm	82mm	71mm
Base Material	Forend Base Material	SS304	SS304	SS304	SS304	Steel
	Strike Base Material	SS304	SS304	SS304	SS304	Steel
	Latch Base Material	SS304	-	SS304	SS304	Brass
	Deadbolt Base Material	SS304	SS304	-	SS304	Solid Steel
Finish of Strike and Forend Plate	Stainless Steel Matt	•	•	•	•	•
	Satin Nickel	-	-	-	-	•
	Polished Brass	-	-	-	-	•
	Antique Brass	-	-	-	-	•
EN Classification	Digit 1: Category of use	3	3	3	3	3
	Digit 2: Durability	S	S	S	S	S
	Digit 3 - Door mass and closing force	7	7	7	7	7
	Digit 4 - Fire resistance	1	1	1	1	1
	Digit 5: Safety	0	0	0	0	0
	Digit 6 - Corrosion resistance and temperature	G	G	G	0	G
	Digit 7 - Security and drill resistance	3	3	-	-	3
	Digit 8 - Field of door application	B	B	B	B	B
	Digit 9 - Type of key operation and locking	C	C	0	0	C
	Digit 10 - Type of spindle operation	2	0	2	2	2
	Digit 11 - Key identification	0	0	0	0	0

Installation Guide for Mortice Locks

Download Mortice Lock Installation Template



1

Refer to Product Dimensions to Know the Cut-out Marks

2

Mark The Drill Holes And Cut-out Marks

3

Prepare Cavity

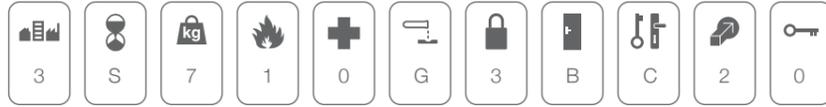
4

Mount the Lock

5

Install and Fix Lock

C Series 72mm Sashlock

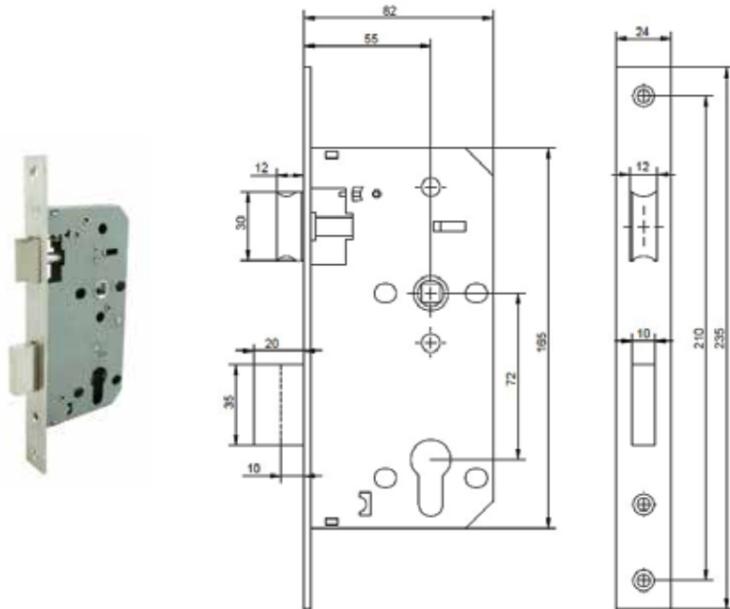
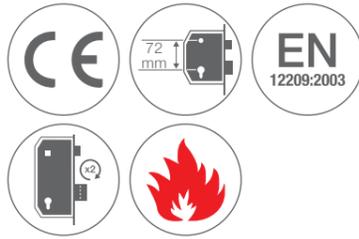


Specifications:

- Sashlock with 72mm center distance
- Backset 55mm with option of 60mm on request
- Follower 8x8mm
- Through fixing holes with 38mm center distance
- Stainless steel 304 front and strike plate
- Square front and strike plate with option of radius type on request
- Steel latch and deadbolt
- 20mm double throw deadbolt
- Grade 8
- Door mass upto 200 Kg at max. closing force of 15N
- 200,000 cycles tested

Features:

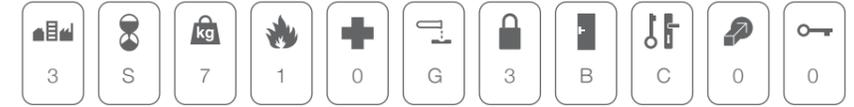
- Tested to EN 12209:2003/AC 2005 - suitable for public doors
- CE certified - suitable for fire doors. Fire Rated 240 minutes for metal doors and 120 minutes for timber doors
- Latch operated by handle or cylinder
- Reversible for left or right hand doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
20-C272-001S-55-3111	C Series sashlock, 55mm backset, 72mm Center, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700
20-C272-001S-60-3111	C Series sashlock, 60mm backset, 72mm Center, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700

Certificate available on request.

C Series 72mm Deadlock

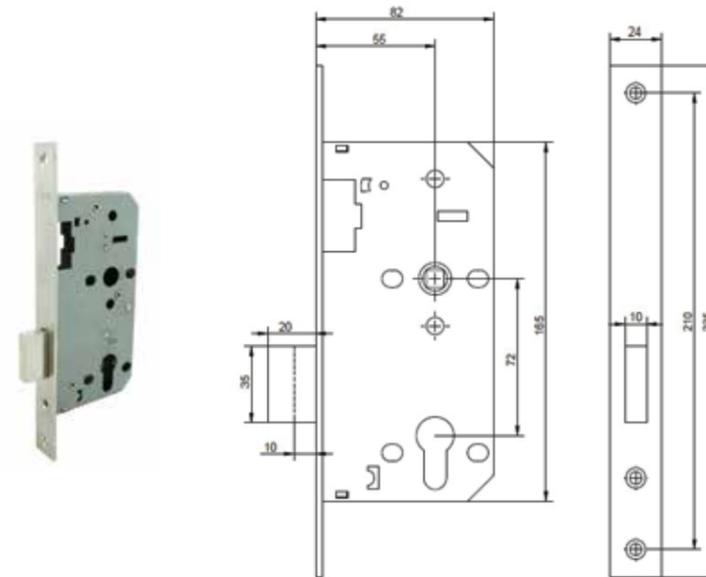


Specifications:

- Deadlock 72mm size
- Backset 55mm with option of 60mm on request
- Stainless steel 304 front and strike plate
- Square front and strike plate with option for radius type on request
- Steel deadbolt
- 20mm double throw deadbolt
- Grade 7
- Door mass upto 100 Kg at max. closing force of 15N
- 200,000 cycles tested

Features:

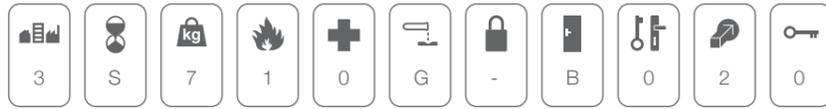
- Tested to EN 12209:2003/AC 2005 - suitable for public doors
- CE certified - suitable for fire doors. Fire Rated 240 minutes for metal doors and 120 minutes for timber doors
- Satin stainless steel finish
- Reversible for left or right hand door



SKU	Description	UOM	Fin	Mat	PKG	WGT
20-C272-002S-55-3111	C Series deadlock, 55mm backset, 72mm Center, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700
20-C272-002S-60-3111	C Series deadlock, 60mm backset, 72mm Center, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700

Certificate available on request.

C Series 72mm Latch

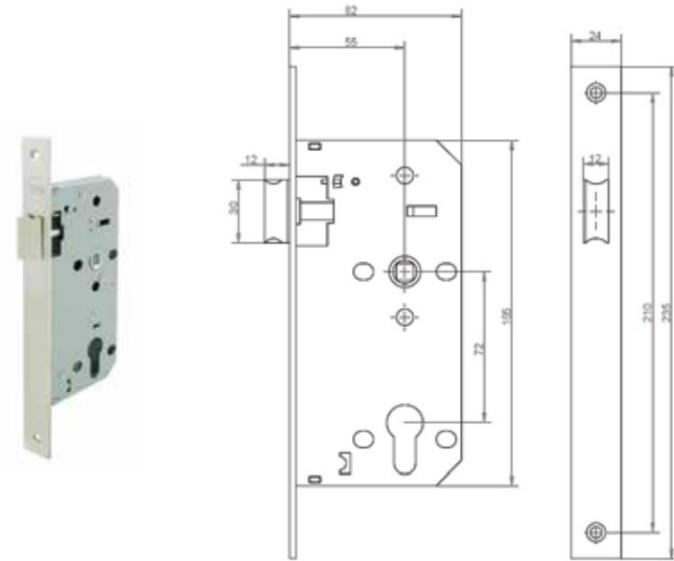


Specifications:

- Mortice Latch
- Backset 55mm with option of 60mm on request
- Follower 8x8mm
- Through fixing holes with 38mm center distance
- Stainless steel 304 front and strike plate
- Square front and strike plate with option of radius type on request
- Steel latch
- Grade 7
- Door mass upto 100 Kg at max. closing force of 15N
- 200,000 cycles tested

Features:

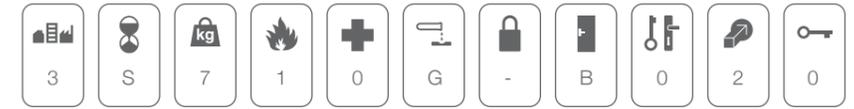
- Tested to EN 12209:2003/AC 2005 - suitable for public doors
- CE certified - suitable for fire doors. Fire Rated 240 minutes for metal doors and 120 minutes for timber doors
- Latch operated by handle only
- Reversible for left or right hand doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
20-C272-003S-55-3111	C Series latchlock, 55mm backset, 72mm center distance, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700
20-C272-003S-60-3111	C Series latchlock, 60mm backset, 72mm center distance, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700

Certificate available on request.

C Series 72mm Nightlatch

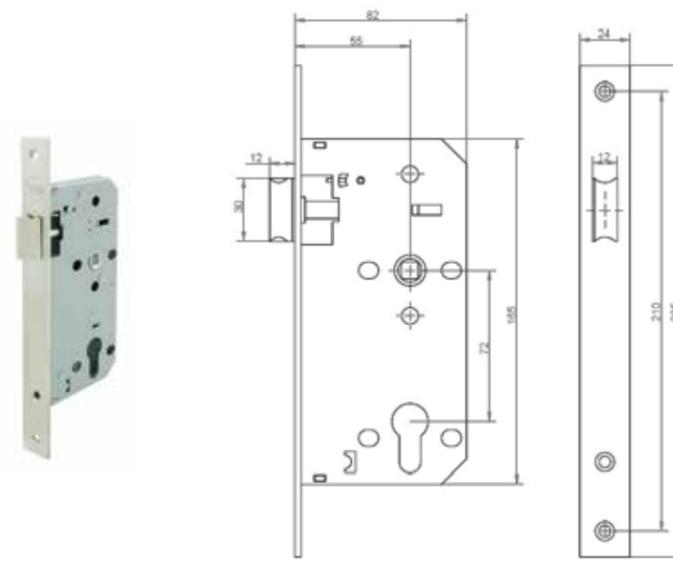
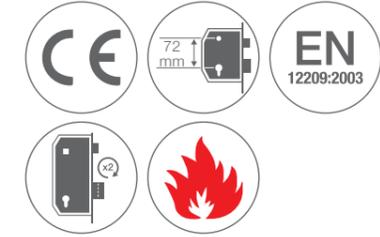


Specifications:

- Nightlatch with 72mm center distance
- Backset 55mm with option of 60mm on request
- Follower 8x8mm
- Through fixing holes with 38mm center distance
- Stainless steel 304 front and strike plate
- Square front and strike plate with option of radius type on request
- Steel latch

Features:

- Tested to EN 12209:2003/AC 2005 - suitable for public doors
- CE certified - suitable for fire doors. Fire Rated 240 minutes for metal doors and 120 minutes for timber doors
- Latch operated by handle or cylinder
- Reversible for left or right hand doors



SKU	Description	UOM	Fin	Mat	PKG	WGT
20-C272-004S-55-3111	C Series nightlatch, 55mm backset, 72mm center distance, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700
20-C272-004S-60-3111	C Series nightlatch, 60mm backset, 72mm center distance, square forend, SS matt, CE	PC	SSM	BRASS	BOX	700

Certificate available on request.

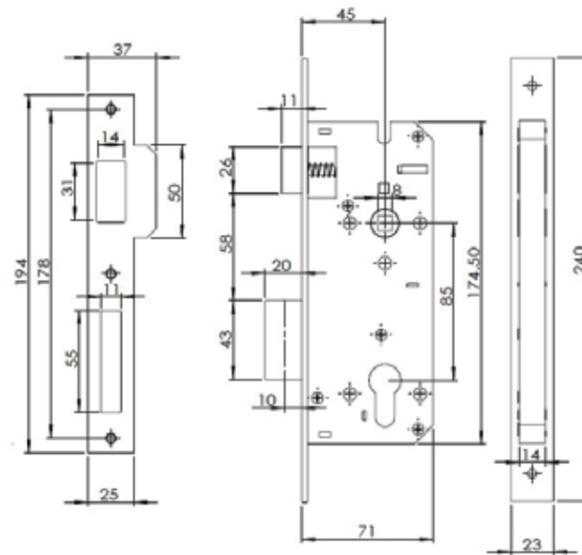
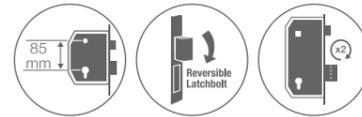
Classica Lock Series 85mm Sashlock

Specifications:

- Lock case with 85mm center distance
- Standard backset 45mm - other backsets available on request
- Follower 8x8mm
- Through fixing holes with 38mm center distance for rosette handles
- Brass latch and steel deadbolt
- Steel front and strike plate with option of stainless steel
- 20mm double throw deadbolt

Features:

- Finish options - satin nickel, polished brass, antique brass or satin stainless steel
- Latch and deadbolt finish matched with front plate
- Latch operated by handle or cylinder



SKU	Description	UOM	Fin	Mat	PKG	WGT
20-8545-0001-00-2211	Classica series mortice sashlock, Square forend, BS 45mm CN 85mm, Satin Nickel, Box	PC	SN	SS 304	BOX	790
20-8545-0001-00-0211	Classica series mortice sashlock, Square forend, BS 45mm CN 85mm, Polished Brass, Box	PC	PB	SS 304	BOX	790
20-8545-0001-00-0911	Classica series mortice sashlock, Square forend, BS 45mm CN 85mm, Antique Brass, Box	PC	AB	SS 304	BOX	790
20-8545-0001-00-3111	Classica series mortice sashlock, Square forend, BS 45mm CN 85mm, SS Matt, Box	PC	SSM	SS 304	BOX	790

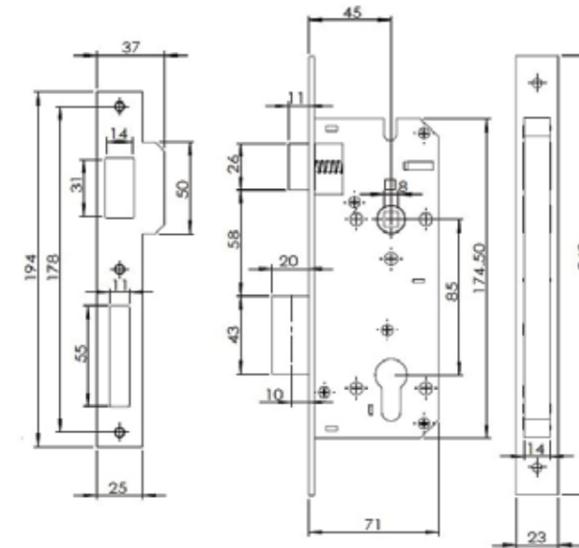
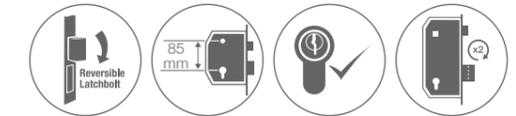
Classica Lockset

Specifications:

- Lock case with 85mm center distance
- Standard backset 45mm - other backsets available on request
- Follower 8x8mm
- Through fixing holes with 38mm center distance for rosette handles
- Brass latch and steel deadbolt
- Front and strike plate in steel with option of stainless steel
- Brass double cylinder 64mm or 70mm with 3 keys

Features:

- Finish options - satin nickel, polished brass, antique brass or satin stainless steel
- Matching strike plate and cylinder



SKU	Description	UOM	Fin	Mat	PKG	WGT
22-8545-S64-KK-2211	Classica series mortice sashlock set, Square forend, BS 45mm CN 85mm, EPC K+K, 64mm=32+32, Satin Nickel, Box	PC	SN	SS 304	BOX	1200
22-8545-S70-KK-2211	Classica series mortice sashlock set, Square forend, BS 45mm CN 85mm, EPC K+K, 70mm=35+35, Satin Nickel, Box	PC	SN	SS 304	BOX	1200
22-8545-S64-CK-22-11	Classica series mortice sashlock set, Square forend, BS 45mm CN 85mm, EPC K+CK, 64mm=32+32, Satin Nickel, Box	SET	SN	STEEL	BOX	1200
22-8545-S70-CK-22-11	Classica series mortice sashlock set, Square forend, BS 45mm CN 85mm, EPC K+CK, 70mm=35+35, Satin Nickel, Box	SET	SN	STEEL	BOX	1200



Cylinders

Not a very well-known fact, but a door lock brings only 50% security to your door. The rest 50% is looked after by your door cylinder. Even if you're sure your lock is secure, your home security might still be at risk – and changing your cylinder can help eliminate this risk.

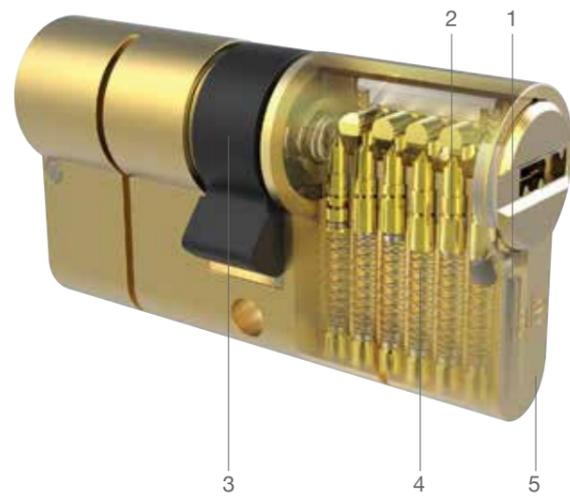
Listed below are some of the many reasons why you should consider changing your existing door cylinders to a high quality Yale cylinder.

- You moved into a new house or apartment
- If you've ever lent someone your key
- You've lost your keys
- Your child has lost a key or let a friend borrow it
- It's a great opportunity to improve lock security
- You've experienced a break in or attempted break-in
- Your locks are worn, old and difficult to use
- You have carried out other home improvements
- Total peace of mind

Cylinder Type

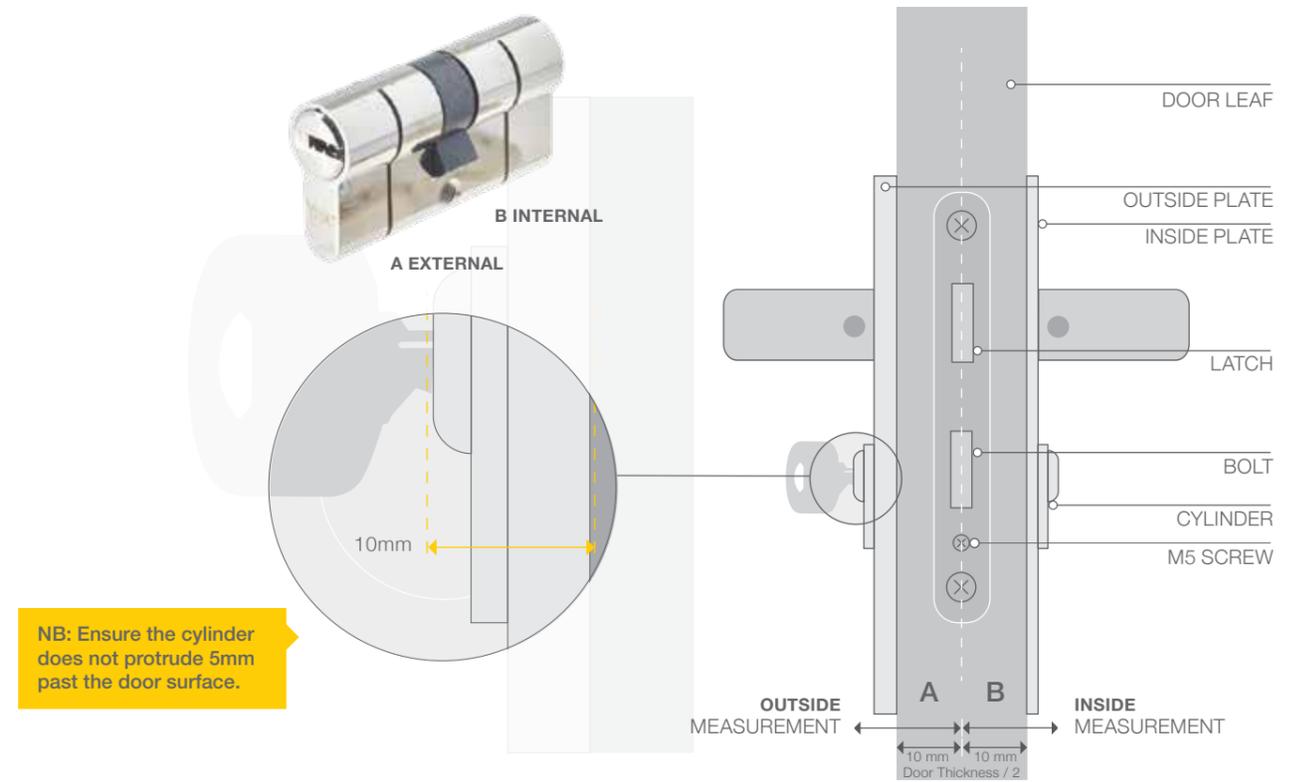


Cylinder Components



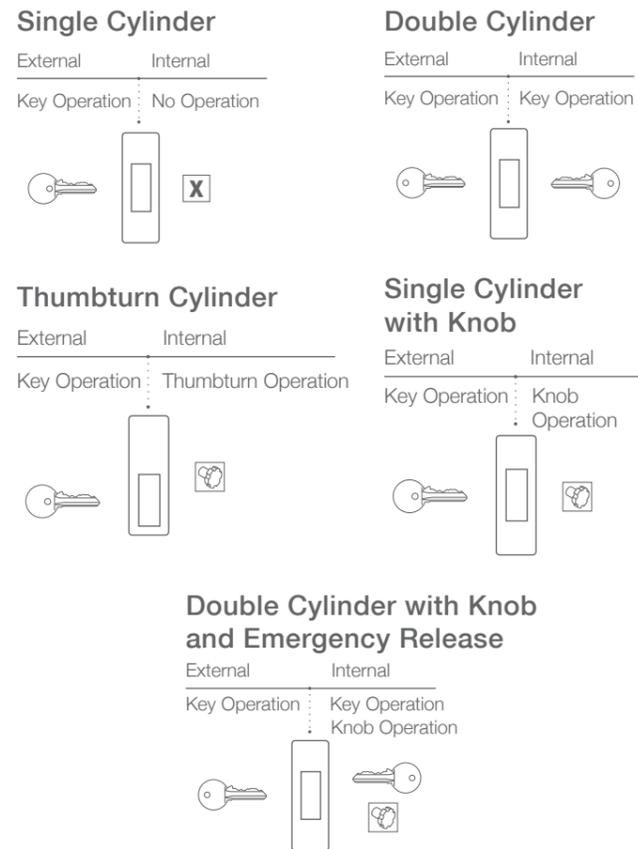
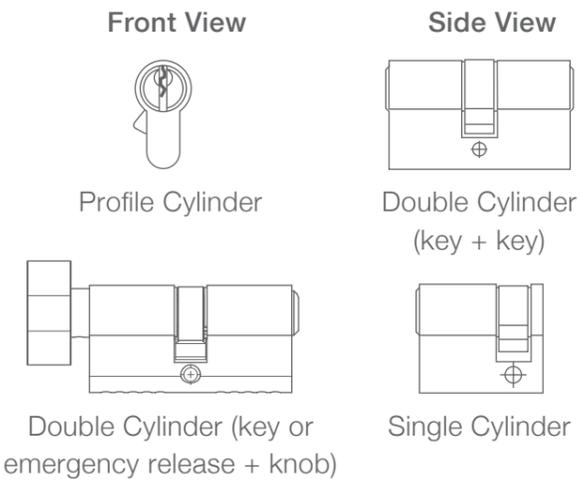
1. Core
2. Core pin
3. Locking pin with spring
4. Housing pin with spring
5. Cylinder housing

How to Measure your Cylinder

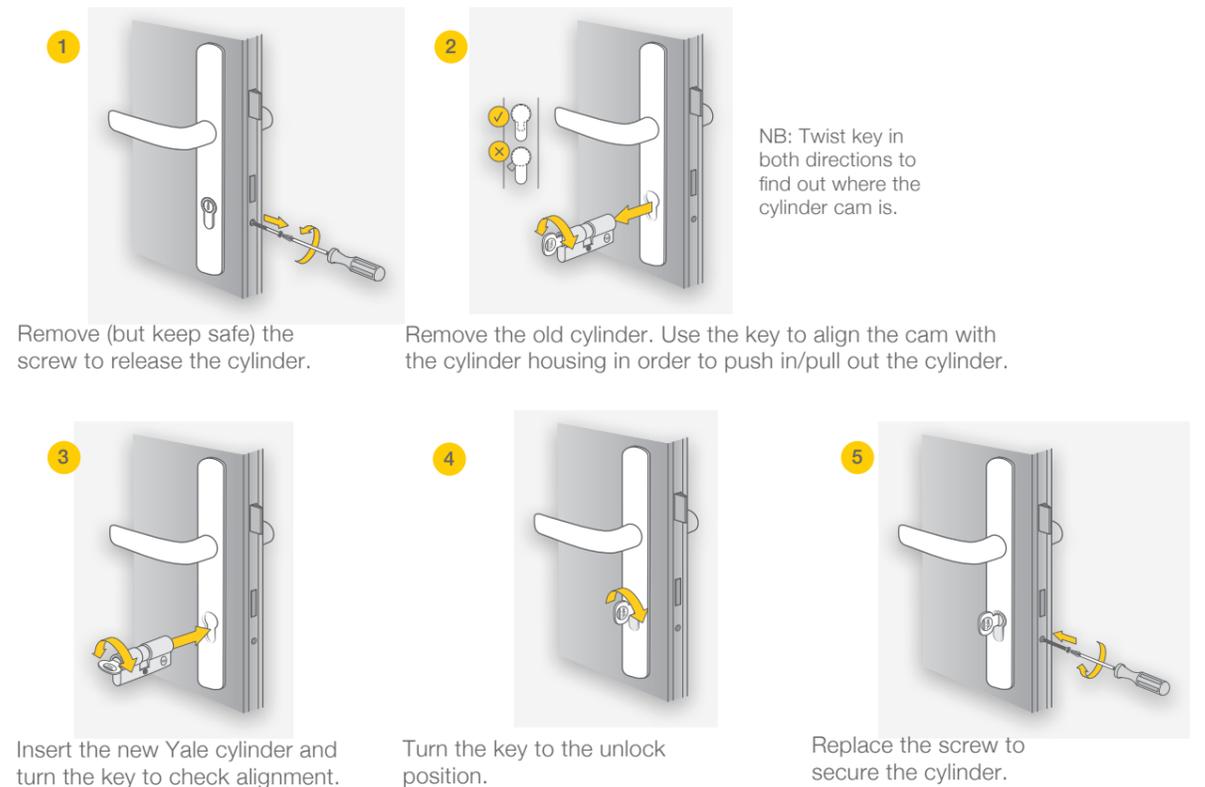


Application

Locking Cylinders are categorized according to:



How to Change your Cylinder

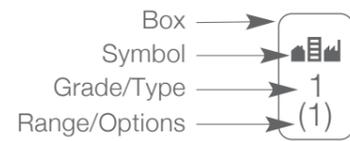


BS EN Standards for Cylinders

Specification

BS EN 1303: 2005 classifies cylinders for locks using an 8 digit coding system. Abroadly similar classification system is used for other building hardware product standards. Each digit refers to a particular feature of the product measured against the standard's performance requirements.

Download Cylinder EN Standards



Digit 1 Category of use

One category is identified:

Grade 1: Keys shall resist a torque of 2.5Nm and still be usable.



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

No requirement.



Digit 4 Fire resistance

Two grades are identified as follows:

Grade 0: not suitable for fire/smoke resistant door assemblies

Grade 1: suitable for fire/smoke resistant door assemblies subject to satisfactory assessment of the contribution of the cylinder to the fire resistance of the specified fire/smoke door assemblies. Such assessment is beyond the scope of this European standard (see EN 1634-1).

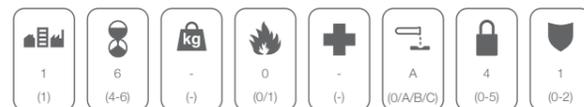


Digit 5 Safety

No requirement.

EXAMPLE:

The following marking denotes a cylinder meeting the required category of use Grade 1, durability Grade 6 (100,000 cycles), no requirement for door mass, no fire resistance or safety in use requirement, having Grade A corrosion resistance, Grade 4 key related security and Grade 1 attack resistance.



Digit 6 Corrosion and temperature resistance

Four grades are identified as follows:

Grade 0: no corrosion or temperature resistance requirements

Grade A: BS EN 1670 Grade 3 corrosion resistance (96 hours NSS): no temperature resistance requirement

Grade B: No corrosion resistance requirement: resistance to -20 / +80°C temperature extremes

Grade C: BS EN 1670 Grade 3 corrosion resistance: resistance to -20 / +80°C temperature extremes

Note:

- No distinction is made between the inside and the outside of either the cylinder and/or the door.
- On completion of the test, the cylinder must operate using a maximum 1.5 Nm torque on the key.



Digit 7 Key related security

Six grades are identified and the principal requirements are summarised in the table below:

	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 levers, pins, discs, etc	2	3	5	5	6	6
Coding on key could disclose combination	Yes	Yes	No	No	No	No
Torque resistance of plug	2.5Nm	5Nm	15Nm	15Nm	15Nm	15Nm



Digit 8 Attack resistance

Three grades are identified and the principal requirements are summarised in the table below:

	Grade		
	0	1	2
Resistance to drilling (net drilling time)	-	3 mins	5 mins
Resistance to chisel attack (number of defined blows)	-	30	40
Resistance to twisting attack (number of defined twists)	-	20	30
Resistance to plug/cylinder extraction (pull load)	-	15kN	15kN
Torque resistance of plug/cylinder	-	20Nm	30Nm

Yale Middle East Cylinder Comparison Sheet		1000 SERIES	500 SERIES	210 SERIES	214 SERIES	215 SERIES	212 SERIES
Cylinder Type	EURO PROFILE CYLINDER	*	*	*	*	*	*
Cylinder Key/Knob combination	KEY + KEY	*	*	*	*	*	*
	KEY + KNOB	*	*	*	*	*	*
	KNOB + EMERGENCY	*	*	*	*	*	*
	KEY (One side only)	*	*	*	*	*	*
Knob Type	CIRCLE	*	*	*	*	*	*
	OVAL SHAPE	*	*	*	*	*	*
Cylinder Shape	EURO SHAPE	*	*	*	*	*	*
Suitability for lock type	EUROPEAN MORTICE (REGULAR)	*	*	*	*	*	*
	EUROPEAN MORTICE (NARROW)	*	*	*	*	*	*
Security Type	MEDIUM	*	*	*	*	*	*
	STANDARD	*	*	*	*	*	*
Torque Resistance	Key to resist torque of 2.5n	*	*	*	*	*	*
Cycle testing	Grade 5: 50000 Cycles	*	*	*	*	*	*
	Grade 6: 100000 Cycles	*	*	*	*	*	*
Fire resistance	Grade 0: Non-Fire rated	*	*	*	*	*	*
	Grade A: 96hrs corrosion resistance, no temprature resistance	*	*	*	*	*	*
Corrosion & Temperature resistance	Grade C: 96hrs corrosion resistance, -20°/+80° C temprature resistance	*	*	*	*	*	*
Key combinations	Grade 5: 50000	*	*	*	*	*	*
Protection	ANTI DRILLING	*	*	*	*	*	*
	ANTI PICKING	*	*	*	*	*	*
Key Type	TRADITIONAL	*	*	*	*	*	*
	COMPUTERISED	*	*	*	*	*	*
Key turn	ONE SIDE	*	*	*	*	*	*
	REVERSIBLE	*	*	*	*	*	*
Key code card	CODE CARD	*	*	*	*	*	
Profile Material	BRASS	*	*	*	*	*	
Finish	SATIN NICKEL	*	*	*	*	*	*
	POLISHED BRASS	*	*	*	*	*	*
	ANTIQUE BRASS	*	*	*	*	*	*
	CHROME POLISHED	*	*	*	*	*	*
Pins	5 PIN	*	*	*	*	*	*
	6 PIN	*	*	*	*	*	*
Alignment	OFFSET	*	*	*	*	*	*
	CENTER	*	*	*	*	*	*
Patent Design	YALE PATENTED DESIGN	*	*	*	*	*	
No. of keys	3 KEYS	*	*	*	*	*	*
	5 KEYS	*	*	*	*	*	*
EN standard	1303 : 2005	*	*	*	*	*	
Packaging Type	BOX	*	*	*	*	*	*
	BLISTER	*	*	*	*	*	*

Download the
Cylinder Datasheet

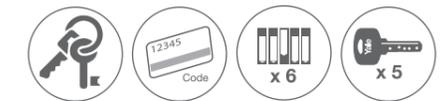


Double Euro Profile Cylinders 1000 Series



Specifications:

- Double euro profile cylinder - Key + Key, Key + Knob
- Single euro profile cylinder - One side key
- Medium security
- Brass Material
- Tested to EN 1303:2005
- Size available from 45mm - 140mm
- Finish available - Satin Nickel, Polished Brass, Antique Brass
- Type: Entrance, Bedroom Function



DIMPLE KEYS CODE NUM 6 PIN NUMBER OF KEYS



ANTI-DRILL ANTI-PICK

Key Highlights:

- Dimple key
- 6 pins
- Supplied with 5 keys
- Key code card
- Anti drilling
- Anti picking



Double Euro Profile



Double Euro Profile with Knob

Scan to know
length available
in this cylinder



1000 SERIES - Key + Key

SKU	Description	UOM	Fin	Mat	PKG
10-1002-3030-00-2201	1000 Series double euro profile cylinder, key + key, 60=30mm+30mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST
10-1002-3535-00-2201	1000 Series double euro profile cylinder, key + key, 70=35mm+35mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST

1000 SERIES - Key + Knob

SKU	Description	UOM	Fin	Mat	PKG
10-1003-3030-CK-2201	1000 Series double euro profile cylinder, key + knob, 60=30mm+30mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST
10-1003-3535-CK-2201	1000 Series double euro profile cylinder, key + knob, 70=35mm+35mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST

Double Euro Profile Cylinders

500 Series



Specifications:

- Double euro profile cylinder - Key + Key, Key + Knob, Knob Emergency Release
- Single euro profile cylinder - One side key
- Standard security
- Brass Material
- Tested to EN 1303:2005
- Size available from 54mm-100mm
- Finish available - Satin Nickel, Polished Brass, Polished Chrome, Antique Brass
- Type: Entrance, Bedroom, Bathroom function

Key Highlights:

- Regular key
- 5 pins
- Supplied with 3 keys



Double Euro Profile



Double Euro Profile with Knob



Double Euro Profile with Privacy Function

Scan to know length available in this cylinder



500 SERIES - Key + Key

SKU	Description	UOM	Fin	Mat	PKG
10-0502-3030-00-2201	500 Series double euro profile cylinder, key + key, 60=30mm+30mm, Satin Nickel, Blister	PC	SN	BRASS	BILIST
10-0502-3535-00-2201	500 Series double euro profile cylinder, key + key, 70=35mm+35mm, Satin Nickel, Blister	PC	SN	BRASS	BILIST

500 SERIES - Key + Knob

SKU	Description	UOM	Fin	Mat	PKG
10-0503-3030-CK-2201	500 Series double euro profile cylinder, key + knob, 60=30mm+30mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST
10-0503-3535-CK-2201	500 Series double euro profile cylinder, key + knob, 70=35mm+35mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST

500 SERIES - Knob + Emergency

SKU	Description	UOM	Fin	Mat	PKG
10-0513-3030-CK-2201	500 Series double euro profile cylinder, knob + coin turn, 60=30mm+30mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST
10-0513-3535-CK-2201	500 Series double euro profile cylinder, knob + coin turn, 70=35mm+35mm, Satin Nickel, Blister	PC	SN	BRASS	BLIST

Double Euro Profile Cylinders

210 Series



Specifications:

- Standard security Euro profile cylinder
- Brass Material
- Size available from 45mm - 140mm
- Finish available - Satin Nickel (add 002 at the end of the SKU code), Polished Brass
- Type: Entrance, Bedroom, Toilet cylinders

Key Highlights:

- Regular key
- 5 pins
- Supplied with 3 keys



Scan to know length available in this cylinder



210 SERIES - Key + Key

SKU	Description	UOM	Fin	Mat	PKG
Y2100062002X	210 Series double euro profile cylinder, Key + Key, 62=31mm+31mm, Satin Nickel, Box	PC	SN	BRASS	BOX
Y2100071002X	210 Series double euro profile cylinder, Key + Key, 70=35mm+35mm, Satin Nickel, Box	PC	SN	BRASS	BOX

Profile Cylinder with Knob

214 Series



Specifications:

- Double euro profile cylinder - Key + Knob
- Standard security
- Brass Material
- Size available from 58mm-125mm
- Finish available - Satin Nickel (Add 002 at the end of the SKU code), Polished Brass
- Type: Entrance, Bedroom Function

Key Highlights:

- Regular key
- 5 pins
- Supplied with 3 keys



Scan to know length available in this cylinder



214 SERIES - Key + Knob

SKU	Description	UOM	Fin	Mat	PKG
Y2140063002X	214 Series double euro profile cylinder, key + knob, 62=27mm+35mm, Satin Nickel, Box	PC	SN	BRASS	BOX
Y2140070002X	214 Series double euro profile cylinder, key + knob, 70=27mm+43mm, Satin Nickel, Box	PC	SN	BRASS	BOX

Accessories

While door fittings provide additional convenience and security to your doors, it's important they aesthetically match with the rest of the door fittings. The door accessories from Yale are available in a wide range of finishes, sizes and vary in the type of functionalities they offer; while perfectly blending in with Yale's other door solutions to give your door a consistent look overall.



Door Stops

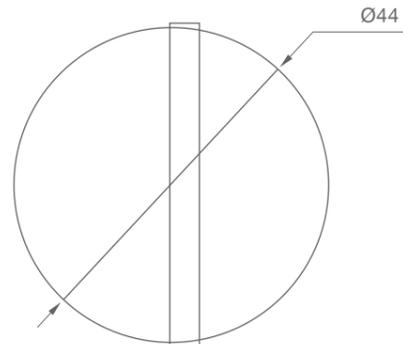
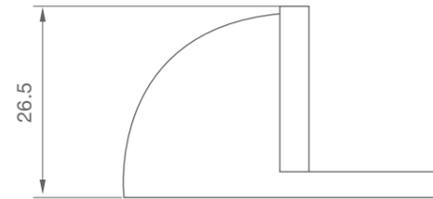
Floor mounted door stop

Specifications:

- AISI 304 with rubber cushion
- Height 26.5mm x Ø44mm, 3mm rubber
- Anchor pin and screw for floor fixing

Features:

- Satin finish, other finishes available on request



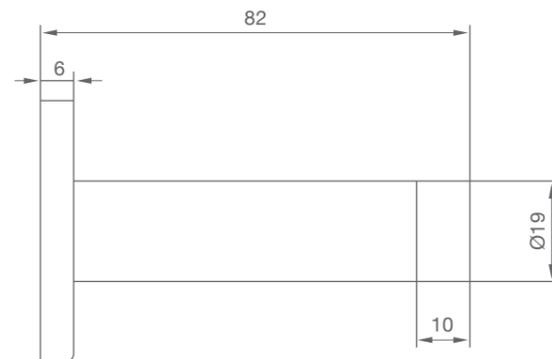
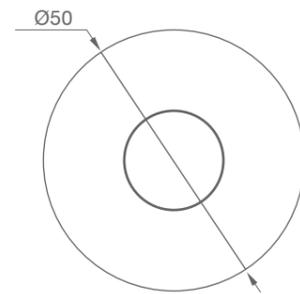
Wall mounted door stop

Specifications:

- AISI 304 with rubber cushion
- Base Ø50x6mm
- Total length with base and rubber 82mm, Ø19mm
- Concealed screw fixing

Features:

- Satin finish, other finishes available on request



SKU	Description	UOM	Fin	Mat	PKG
35-9004-1001-00-3150	Half moon floor mounted door stop, SS304, SSM, Box	PC	SSM	SS 304	BOX
35-9004-1011-00-3150	Wall mounted door stop, SS304, SSM, Box	PC	SSM	SS 304	BOX

Other Fittings

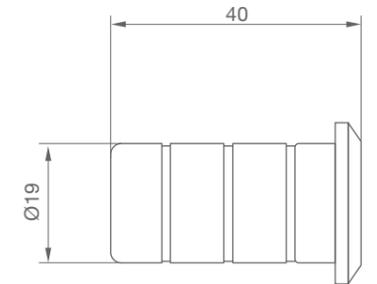
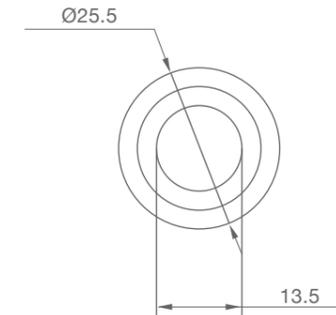
Dust proof socket

Specifications:

- Sprung floor socket for flush bolt
- Stainless steel AISI 304
- Depth 40mm, Ø25mm
- Suitable for bolt Ø12mm

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG
35-9004-5002-00-3150	Dust proof socket, SSM, Box	PC	SSM	SS 304	BOX

Door Holders

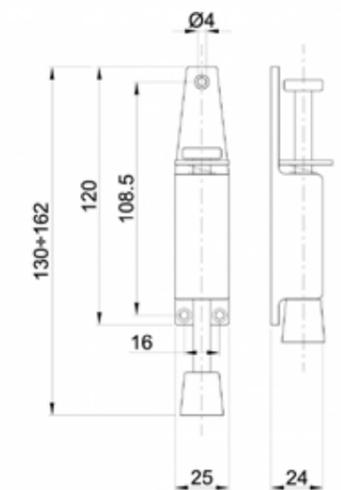
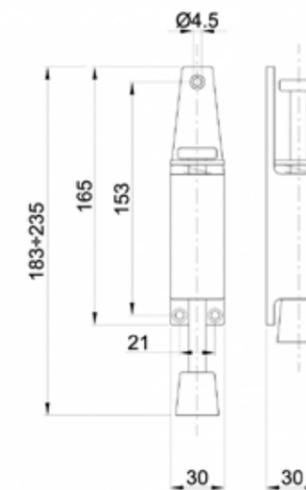
0A8

Specifications:

- Aluminium door holders

Features:

- Available in aluminium, gold and dark brown finishes



SKU	Description	UOM	Fin	Mat	PKG
0A83003057	Foot operated door stopper, Small, Aluminium, Box	PC	Alu	ZA	BOX
0A83003058	Foot operated door stopper, Small, Gold, Box	PC	Gold	ZA	BOX
0A83003056	Foot operated door stopper, Small, Brown, Box	PC	Brown	ZA	BOX
0A83004057	Foot operated door stopper, Large, Aluminium, Box	PC	Alu	ZA	BOX
0A83004058	Foot operated door stopper, Large, Gold, Box	PC	Gold	ZA	BOX
0A83004056	Foot operated door stopper, Large, Brown, Box	PC	Brown	ZA	BOX

Flush Bolts

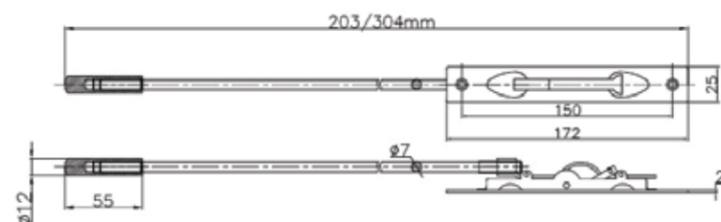
Flush bolt for metal doors - Rod type

Specifications:

- Stainless steel AISI 304
- Lever operation
- Length options 203mm and 304mm, Bolt Ø12mm x 55mm

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG
35-9004-3001-08-3150	Flush bolt for metal door rod type, push & slide operation, 200mm, Bolt dia 12mm, SSM, Box	PC	SSM	SS 304	BOX
35-9004-3001-12-3150	Flush bolt for metal door rod type, push & slide operation, 300mm, Bolt dia 12mm, SSM, Box	PC	SSM	SS 304	BOX

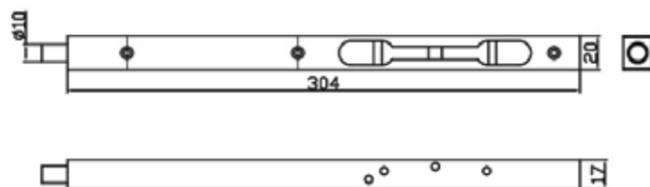
Flush bolt for metal doors

Specifications:

- Stainless steel AISI 304
- Push and slide operation
- Length options 200mm and 300mm, Bolt Ø12mm

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG
35-9004-3002-08-3150	Flush bolt for metal door 200mm, SSM, Box	PC	SSM	SS 304	BOX
35-9004-3002-12-3150	Flush bolt for metal door 300mm, SSM, Box	PC	SSM	SS 304	BOX

Flush Bolts

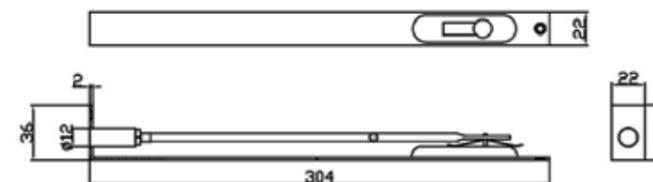
Flush bolt for wooden doors

Specifications:

- Stainless steel AISI 304
- Box type casing with lever operation
- Length options 200mm and 300mm, Bolt Ø10mm

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG
35-9004-3003-08-3150	Flush bolt for wooden door 200mm, SSM, Box	PC	SSM	SS 304	BOX
35-9004-3003-12-3150	Flush bolt for wooden door 300mm, SSM, Box	PC	SSM	SS 304	BOX



Signage and Plates

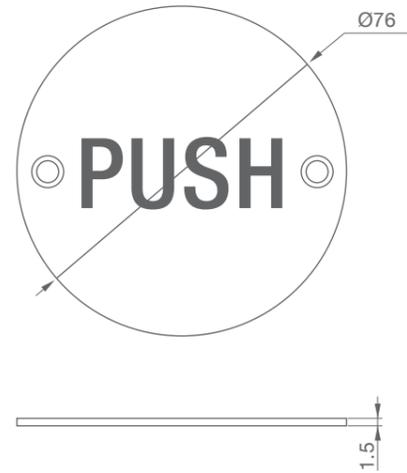
Circular instruction signage

Specifications:

- “PUSH” and “PULL” circular signs
- Stainless steel AISI 304
- Size Ø76 x 1.5mm
- Engraved and painted

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG
35-9004-2011-00-3150	Signage, Circular plate - PUSH, SS304, Box	PC	SSM	SS 304	BOX
35-9004-2012-00-3150	Signage, Circular plate - PULL, SS304, Box	PC	SSM	SS 304	BOX
35-9004-2021-00-3150	Signage, Circular plate - FIRE DOOR, SS304, Box	PC	SSM	SS 304	BOX

Signage and Plates

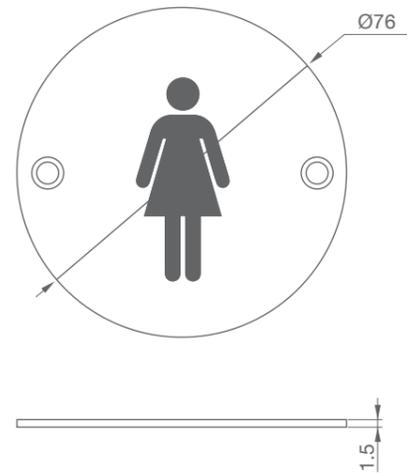
Circular symbol signage

Specifications:

- Circular symbols
- Stainless steel AISI 304
- Size Ø76 x 1.5mm
- Engraved and painted

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG
35-9004-2032-00-3150	Signage, Circular plate - FEMALE, SS304, Box	PC	SSM	SS 304	BOX
35-9004-2031-00-3150	Signage, Circular plate - MALE, SS304, Box	PC	SSM	SS 304	BOX
35-9004-2033-00-3150	Signage, Circular plate - DISABLED, SS304, Box	PC	SSM	SS 304	BOX

Signage and Plates

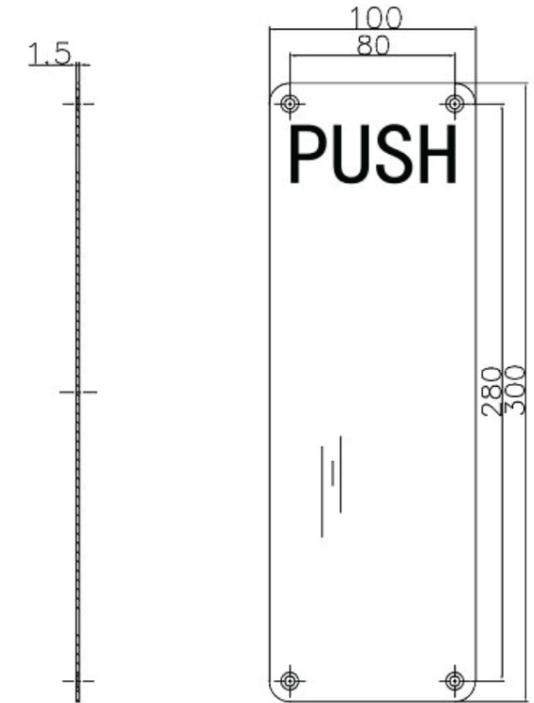
Door plates

Specifications:

- Protective push and kick plates
- Stainless steel AISI 304
- Standard size 300x100x1.5mm, plain or “PUSH” engraved,
- Special sizes available on request
- Countersunk fixing holes

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-2101-00-31-50	Door push plate - Plain, 300X100X1.5mm, SS 304, Box	PC	SSM	SS 304	BOX	90
35-9004-2102-00-31-50	Door push plate - PUSH, 300X100X1.5mm, SS 304, Box	PC	SSM	SS 304	BOX	100
35-9004-0350-00-3150	Door push plate - 350*100*1.5 sign plate without word, SSM, Box	PC	SSM	SS 304	BOX	120
35-9004-0351-00-3150	Door push plate - 350*100*1.5 sign plate with word, SSM, Box	PC	SSM	SS 304	BOX	120

Escutcheons

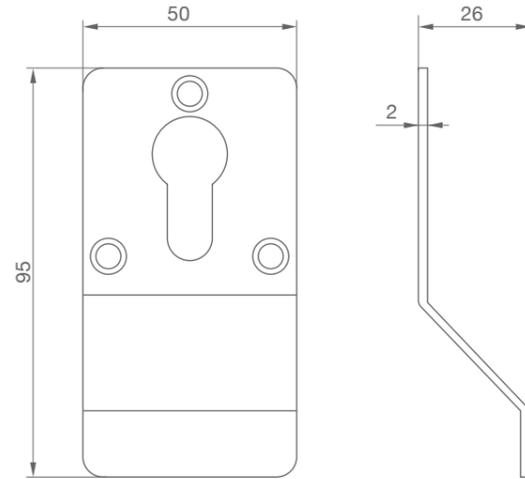
Cylinder escutcheon pull

Specifications:

- Euro cylinder escutcheon pull
- Stainless steel AISI 304
- Size 50x95mm, protrusion 26mm from door

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-5021-00-31-50	Euro cylinder escutcheon pull, SS 304, SSM, Box	PC	SSM	SS 304	BOX	40

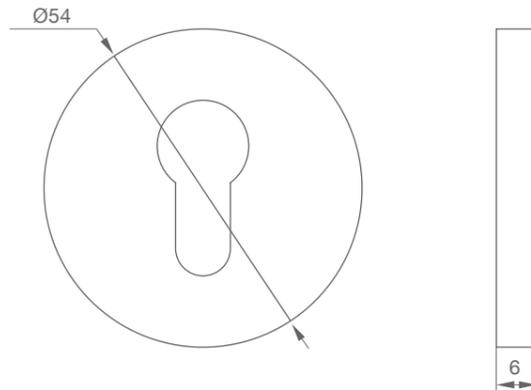
Euro cylinder escutcheon

Specifications:

- Stainless steel AISI 304 cover
- Stainless steel base
- Size Ø54x8mm

Features:

- Satin finish, other finishes on request



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-5022-00-31-50	Euro cylinder escutcheon round, SS 304, SSM, Box	PR	SSM	SS 304	BOX	40

Bathroom Accessories

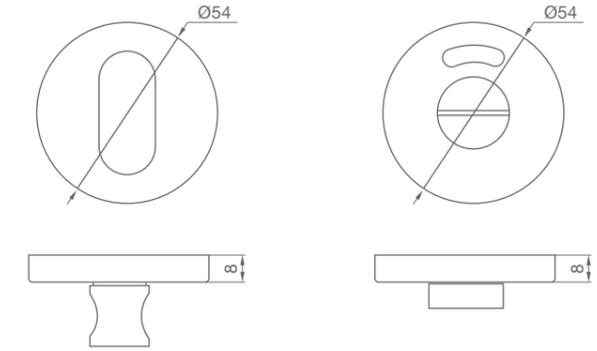
Turn and indicator

Specifications:

- Bathroom turn and indicator set
- Stainless steel AISI 304
- Rosette size Ø54x8mm
- Square 8x8mm spindle to suit doors up to 50mm thick

Features:

- Satin finish, other finishes on request
- Suitable for use with Yale mortice bolt item reference 35-9004-4101-00-31-50



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-4001-00-31-50	Snib release indicator lock - for high pressure laminate doors, suitable for use with Yale mortice bolt item reference 35-9004-4101-00-31-50, SS304, SSM, Box	PR	SSM	SS 304	BOX	250

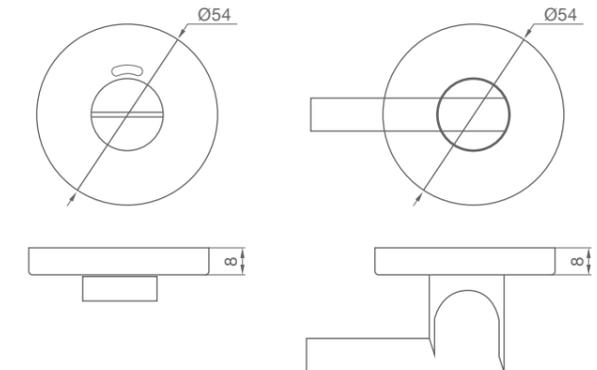
Long turn and indicator set

Specifications:

- Bathroom set with long turn and indicator
- Stainless steel AISI 304
- Rosette size Ø54x8mm
- Square 8x8mm spindle to suit doors up to 50mm thick

Features:

- Satin finish, other finishes on request
- Suitable for use with Yale mortice bolt item reference 35-9004-4101-00-31-50



SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-4002-00-31-50	Snib release indicator lock, with long handle - for high pressure laminate doors, suitable for use with Yale mortice bolt item reference 35-9004-4101-00-31-50, SS 304, SSM, Box	PR	SSM	SS 304	BOX	250

