

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)



Lebanon
Activation

1940



Syria
Activation

1960



Lebanon
Lebanese University

1964



Iran
Activation

1970



Kuwait
Activation

1976



Dubai
First Showroom

1988



Dammam
First Showroom

1998



Dubai
Showroom Renovation & Establishment of Modern Trade

2018



Lebanon
American University

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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

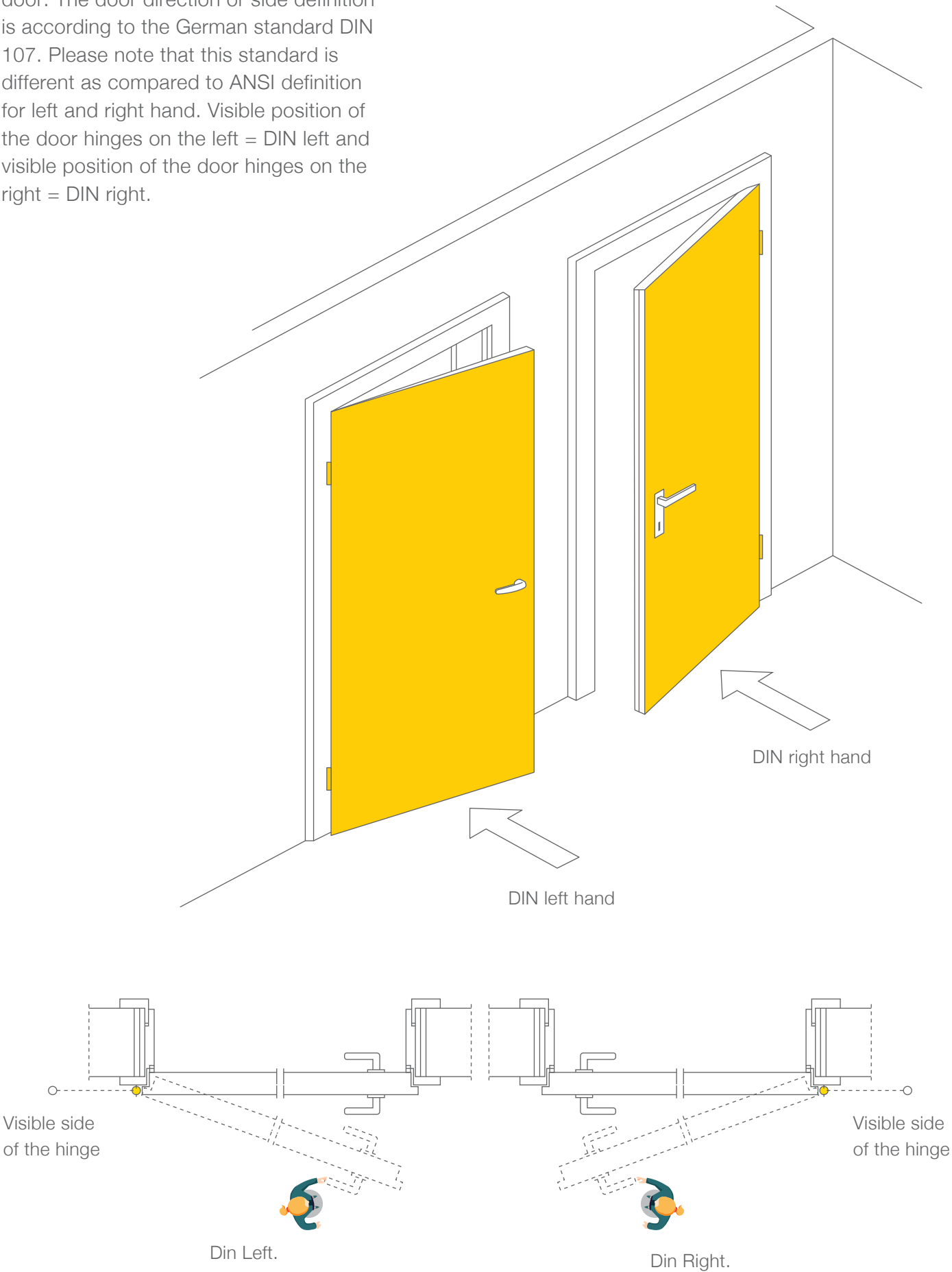
Which material to use for the door frame?

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.

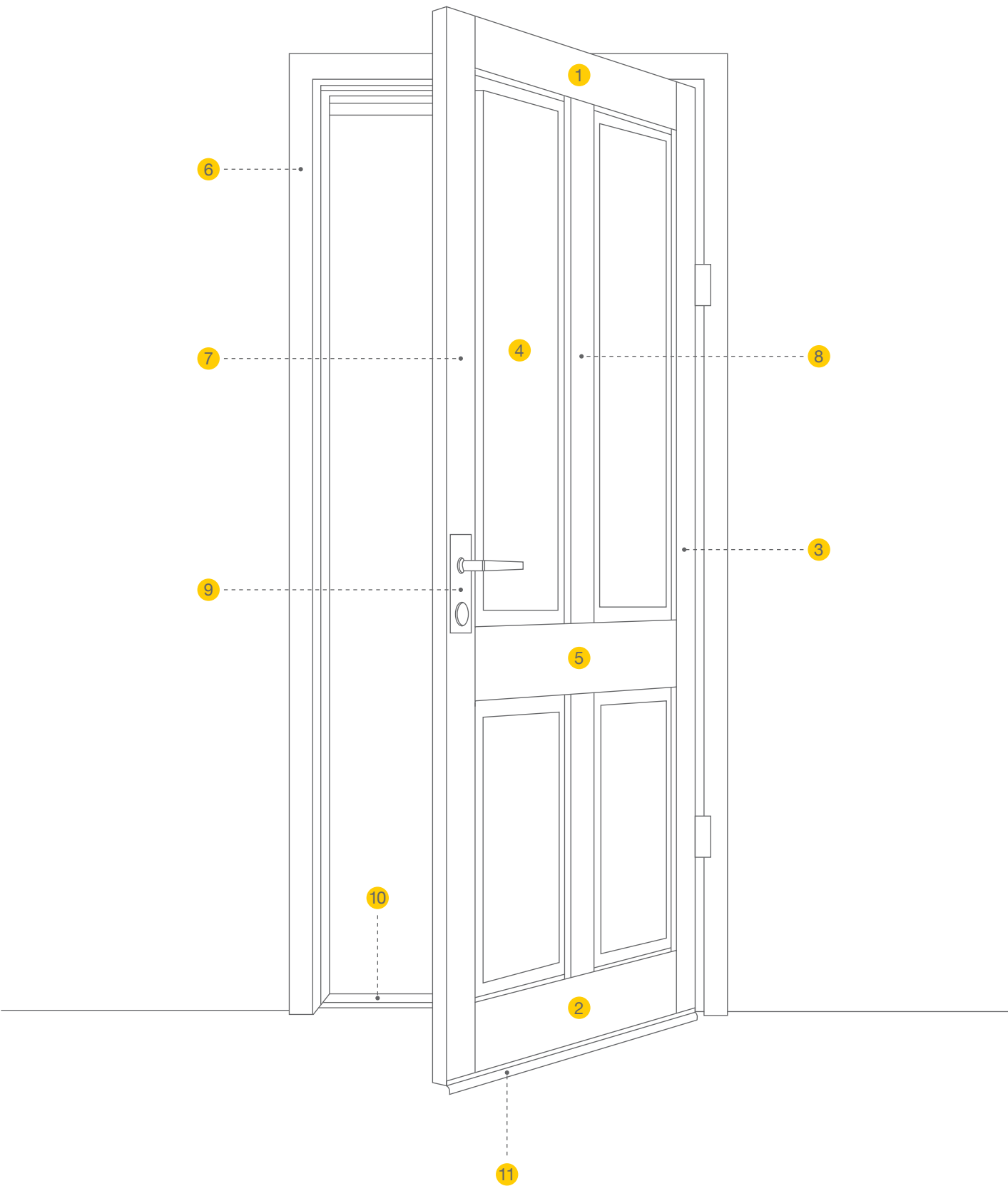
Door Direction

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.

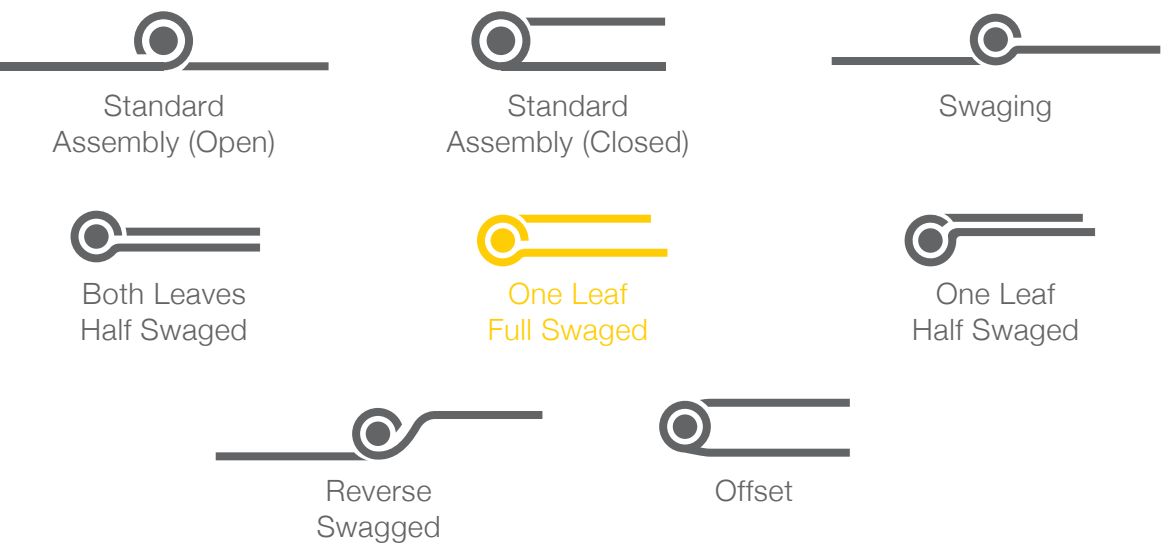
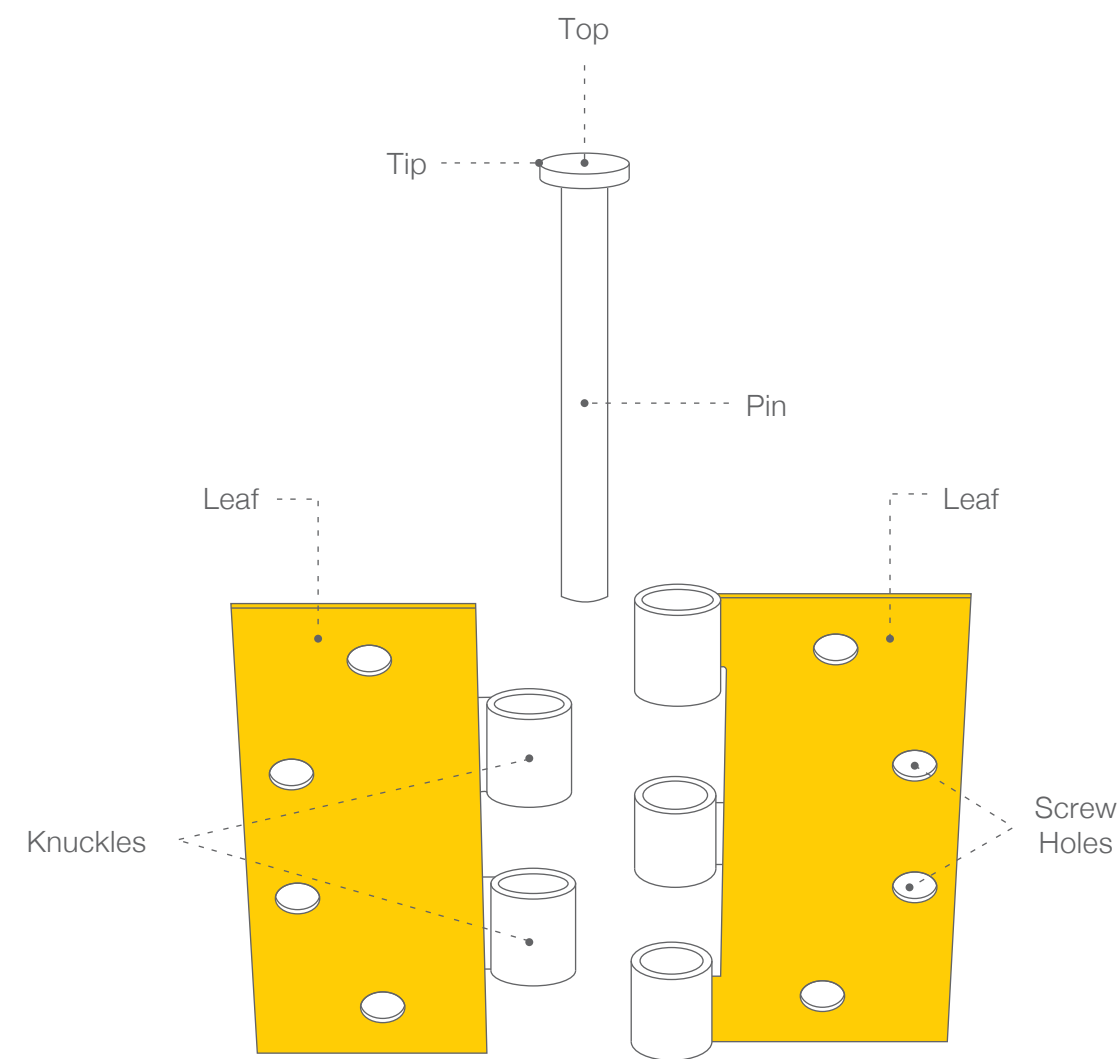


Parts of a Door

- 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

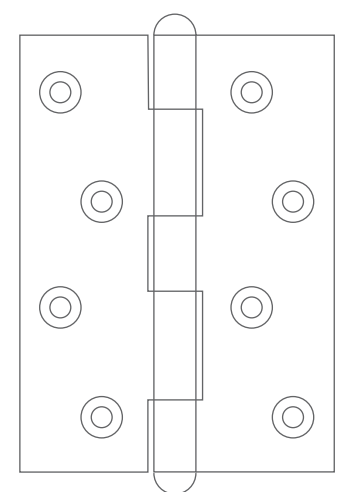
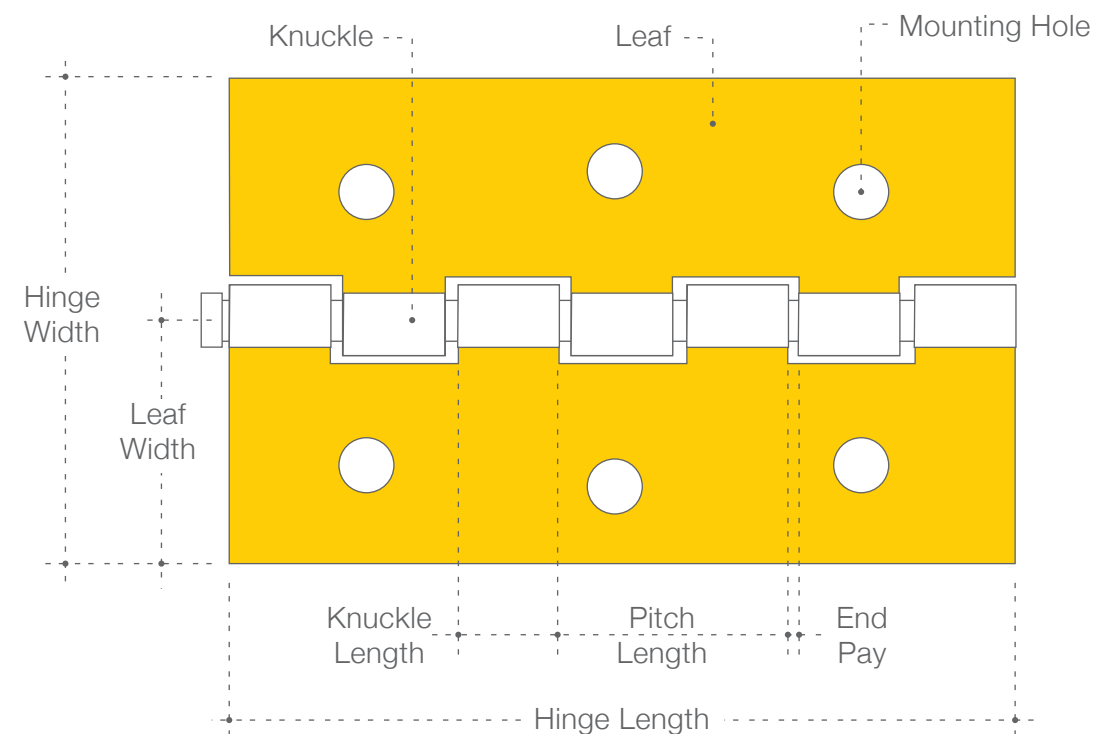


Parts of Hinges



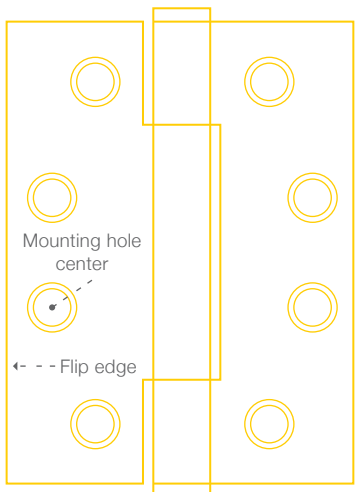
● Yale follows this specification of hinges.

Drilling Pattern in Hinges



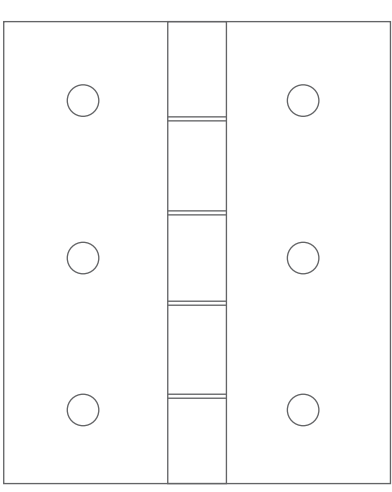
Zig-Zag (Congruent) Drilled Pattern

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

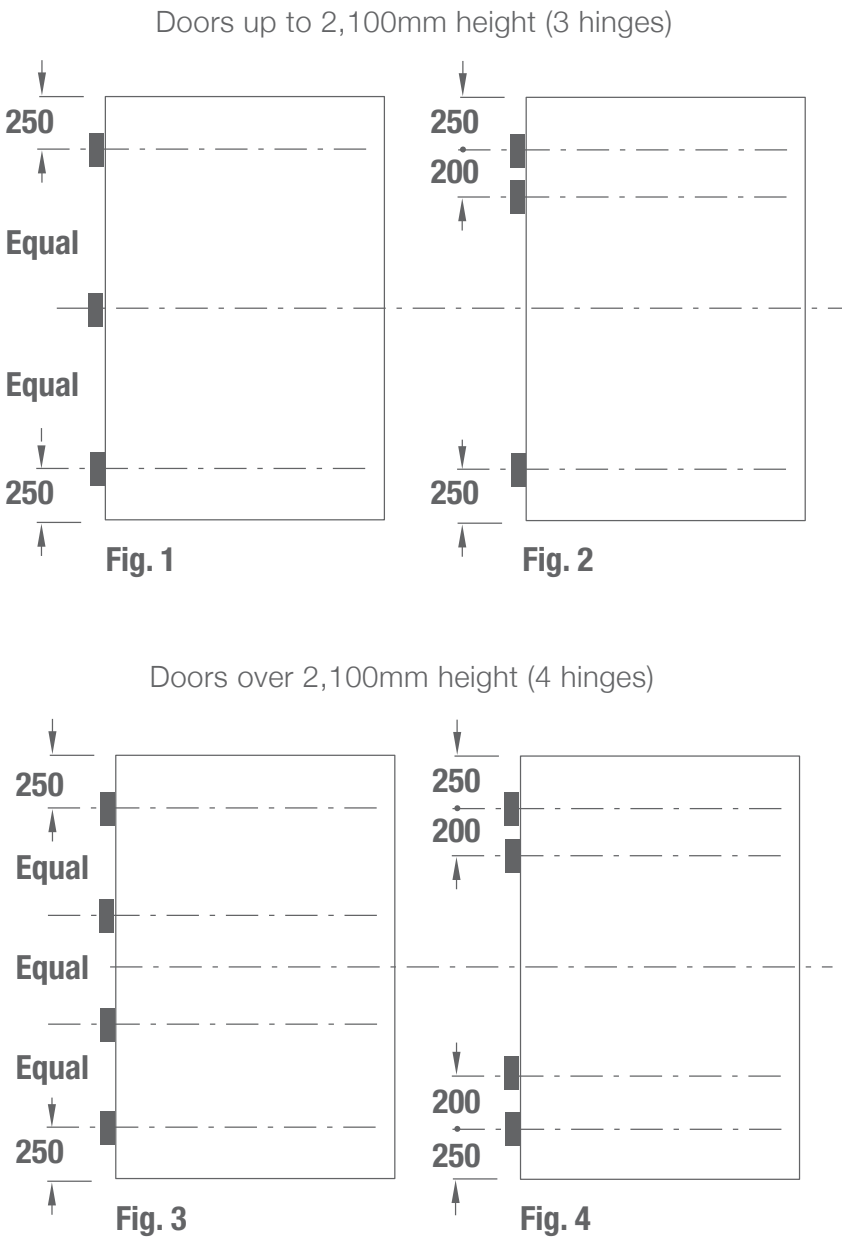
Used in hinges' flanges which are too narrow

● 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



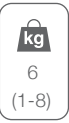
Digit 2 - Durability

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



Certificate

SS 316 Hinges

Stainless steel butt hinges

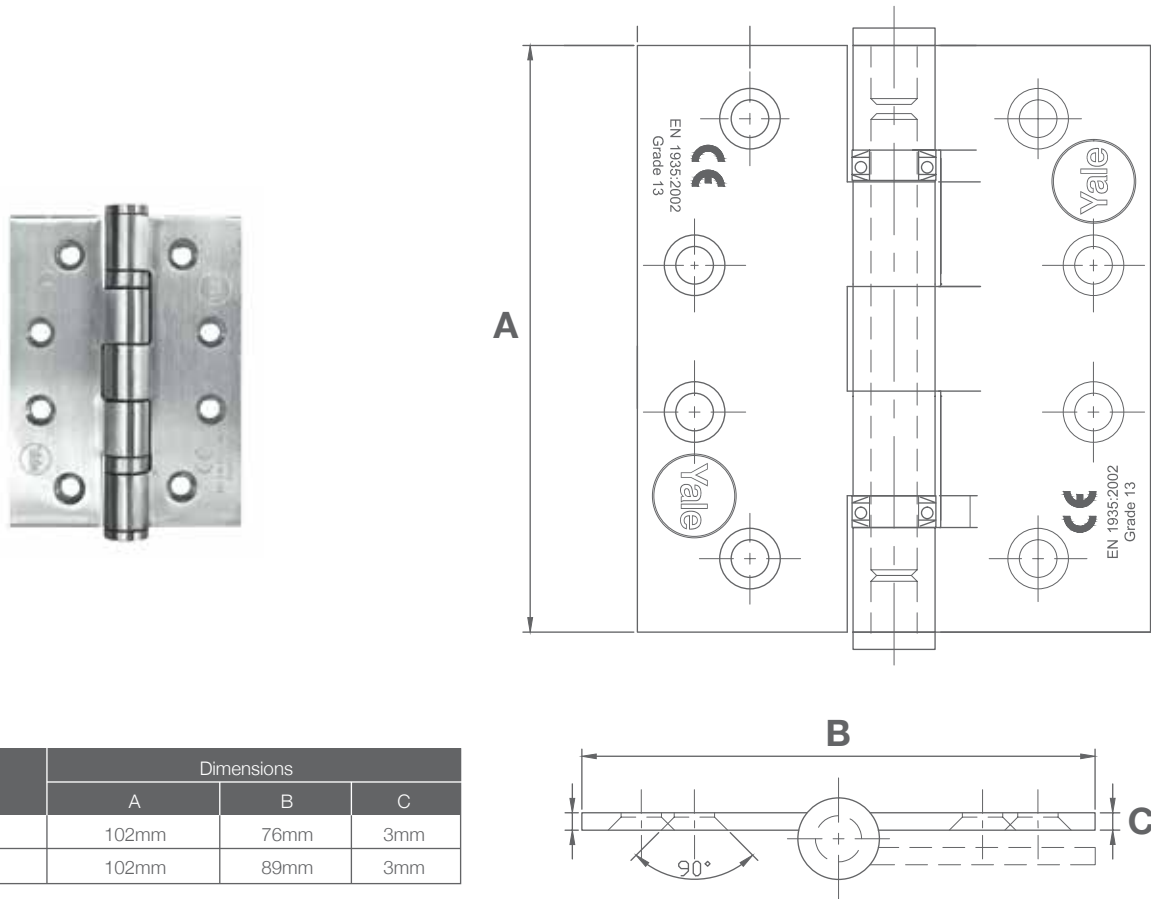
High quality stainless steel butt hinges.

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

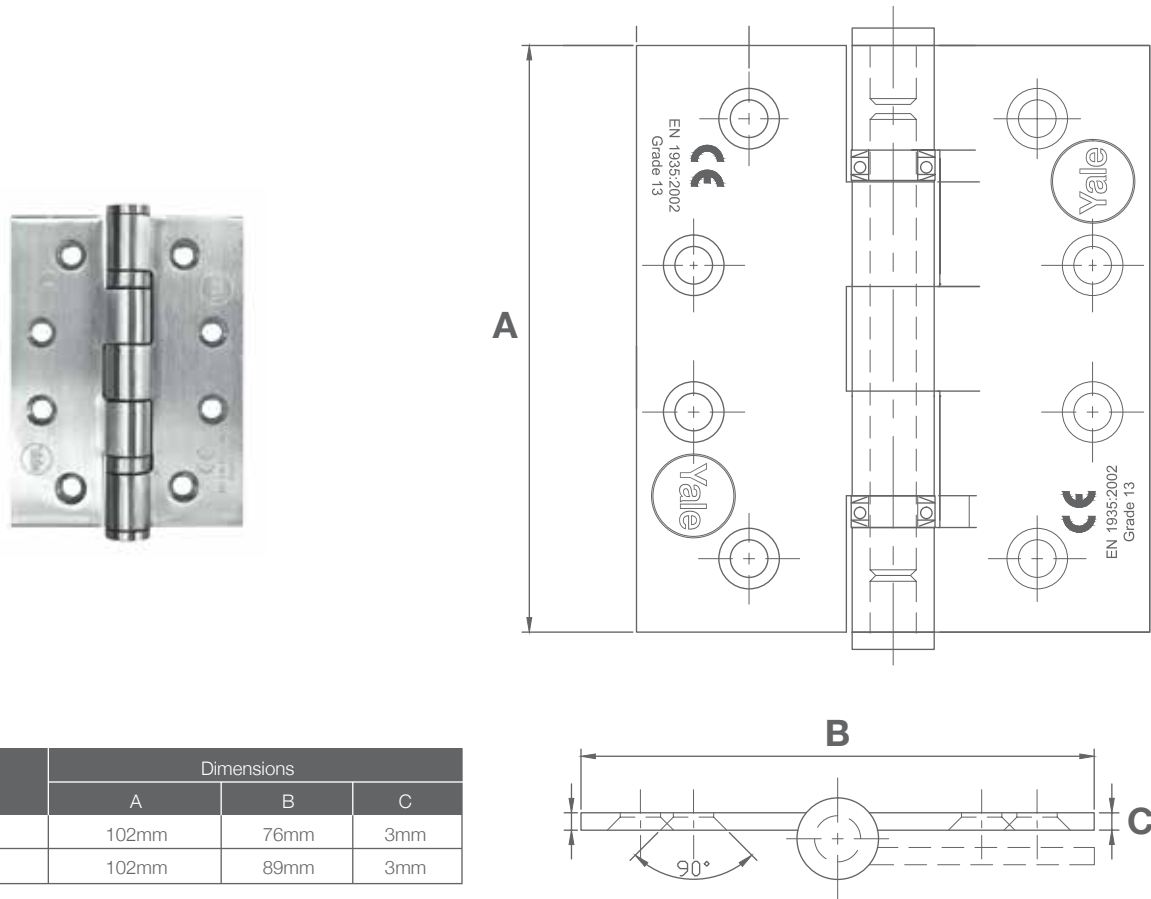
High quality stainless steel butt hinges.

Specifications:

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

Features:

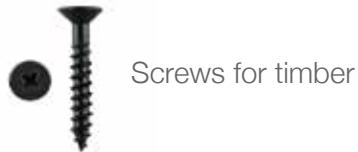
Available in Stainless Steel Matt, Stainless Steel Polish and Polished Brass finishes



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

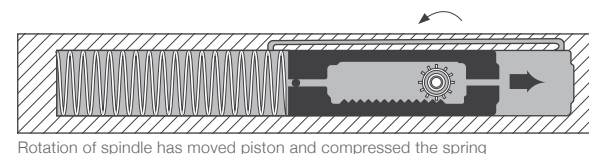
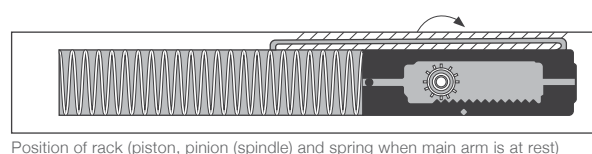
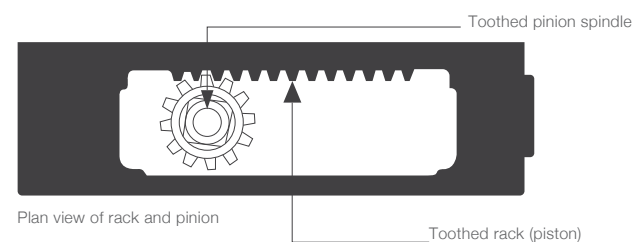
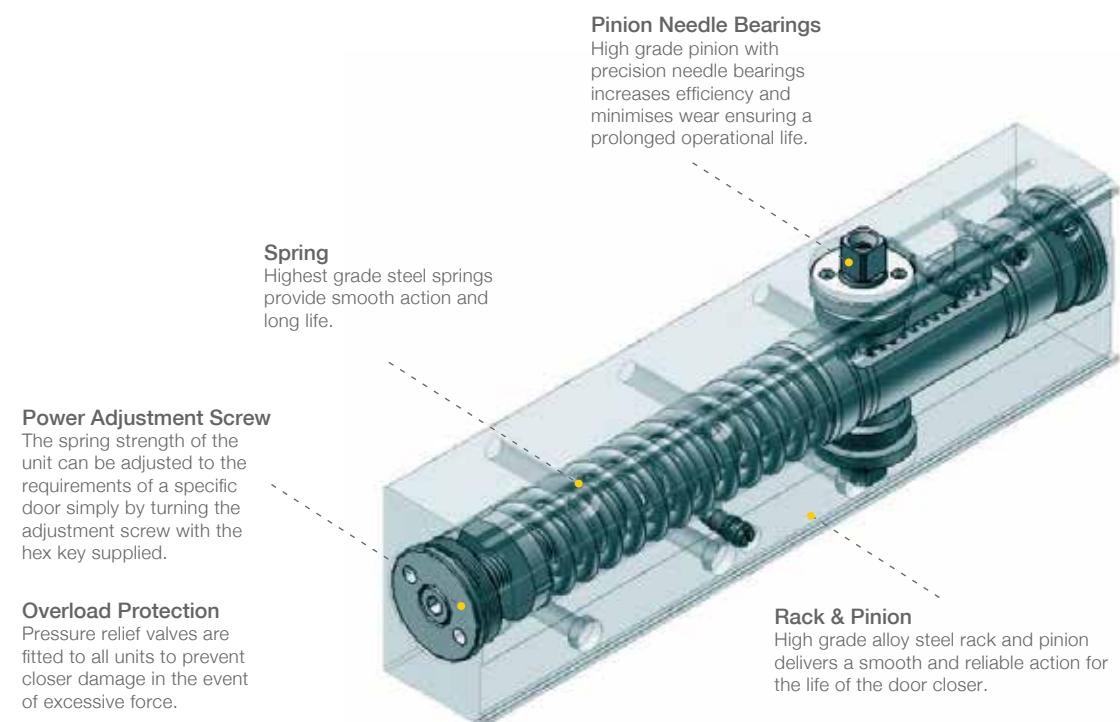
SKU	Description	UOM	Finish	Material	Packaging
36-2000-0403-30-3112	Ball Bearing Butt Hinge, 4X3X3MM,PR,SSM,SS201,BOX	PR	SSM	SS 201	BOX
36-2000-0435-30-3112	Ball Bearing Butt Hinge, 4X3.5X3MM,PR,SSM,SS201,BOX	PR	SSM	SS 201	BOX

Screw set guide

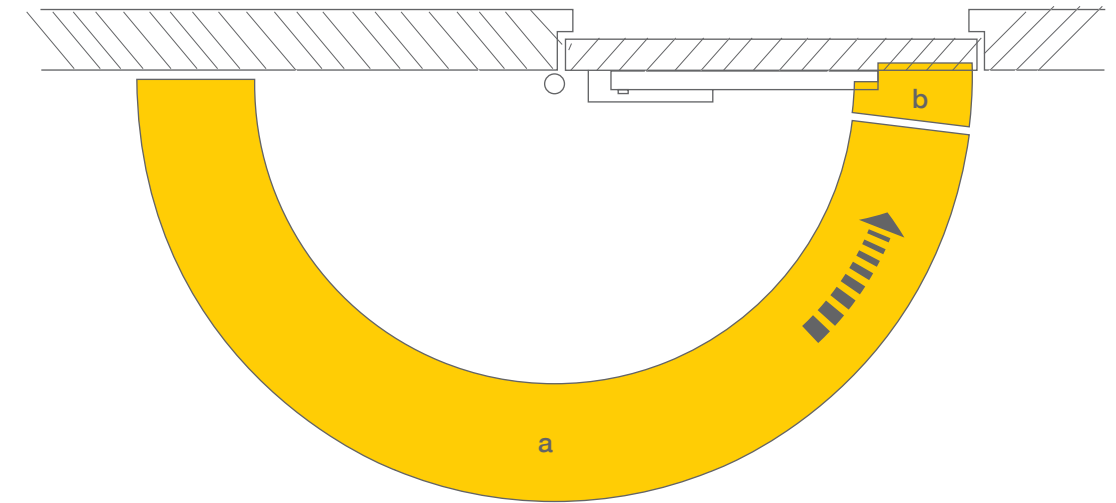


Rack & Pinion Technology

- 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

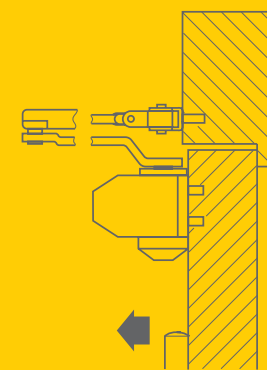


a Closing speed

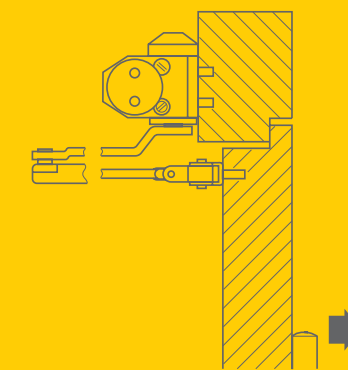
The exact setting of the closing speed guarantees a controlled closing of the door leaf.

b Latching action

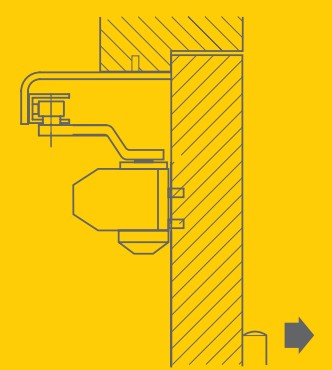
The latching action controls the closing of the door and ensures the lock closes reliably. Therefore the door closer increases the speed of the door. The hydraulic latching action is reducing the speed of the door to achieve a softer closing of the door.



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

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.



Download Door Closer EN Standards

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.

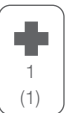
Test door mass and recommended door widths		
Power size of closer	Max. mass of leaf	Width of test door leaf
1	20 kg	<750mm
2	40 kg	850mm
3	60 kg	950mm
4	80 kg	1,100mm
5	100 kg	1,250mm
6	120 kg	1,400mm
7	160 kg	1,600mm



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

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

4
(1/4)

7
(3/4/7)

6
(1-8)

1^b
(0/1)

1
(1)

4
(0-4)

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 Size
2,3,4

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

Overhead Door Closer

4000 series

Medium duty CE marked power selectable door closer



Specifications:

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

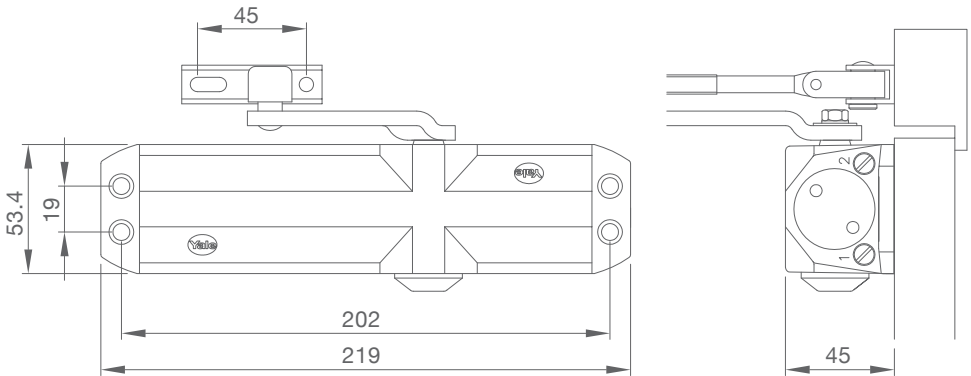
Features:

- 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

Stainless Steel Handles

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

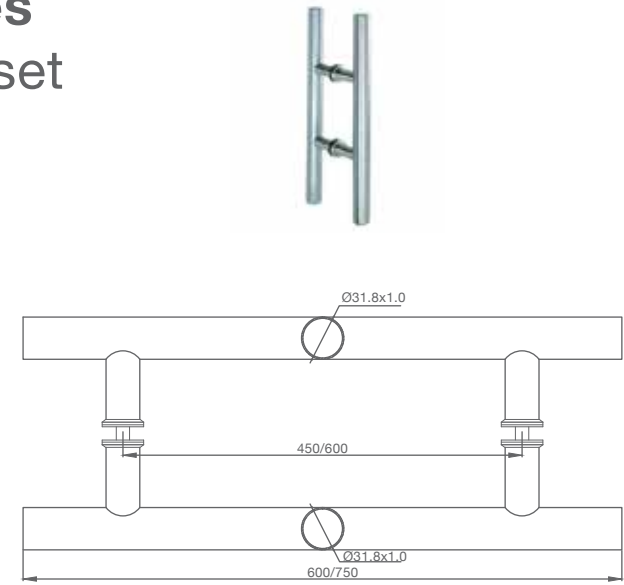
SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8820-19-31-50	Single pull handle on 300x100mm plate	PR	SS MATT	SS304	BOX	750

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

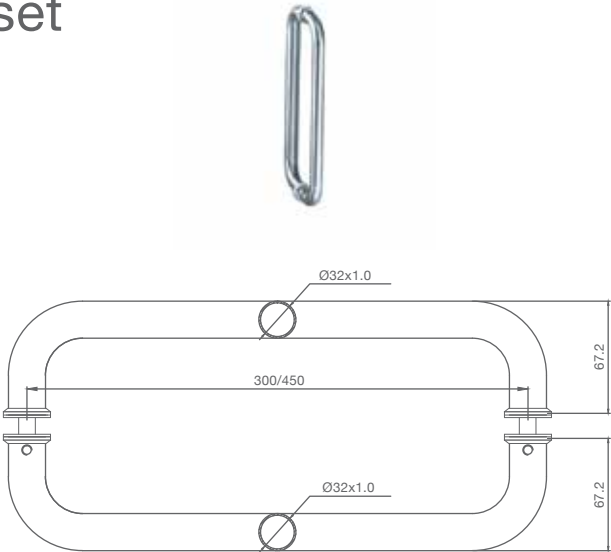


SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8445-32-31-50	H-Type pull handle, back to back fixing, SS 304, O/A600, C/C450xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1160
35-9004-8460-32-31-50	H-Type pull handle, back to back fixing, SS 304, O/A750, C/C600xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1430

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



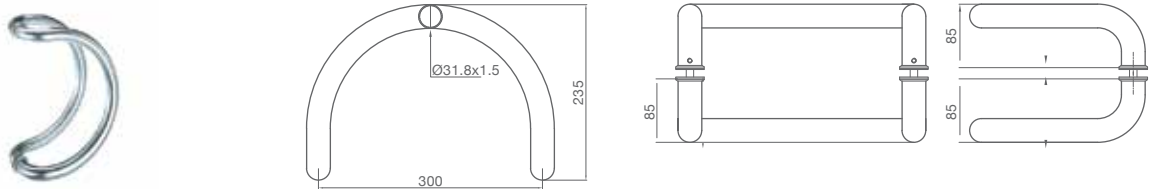
SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8330-32-31-50	D-Type pull handle, back to back fixing, SS 304, O/A300xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1160
35-9004-8345-32-31-50	D-Type pull handle, back to back fixing, SS 304, O/A450xØ32mm, SSM, Box	PR	SS MATT	SS 304	BOX	1430

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

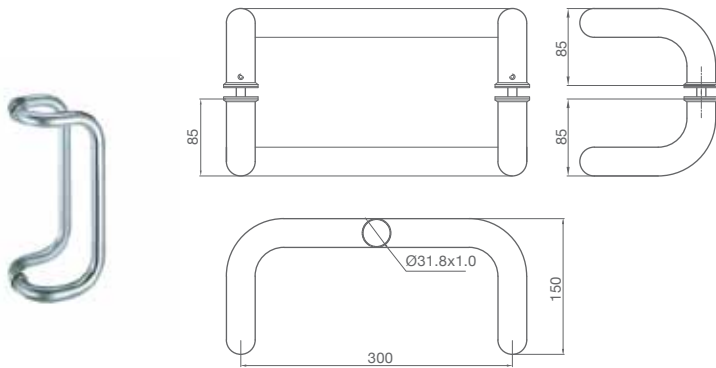


SKU	Description	UOM	Fin	Mat	PKG	WGT
35-9004-8230-19-31-50	D-Type pull handle, one side fixing with escutcheon, SS 304, concealed fixing, O/A300xØ19mm, SSM, Box	PC	SS MATT	SS 304	BOX	610
35-9004-8230-22-31-50	D-Type pull handle, one side fixing with escutcheon, SS 304, concealed fixing, O/A300xØ22mm,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

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Mortice Locks

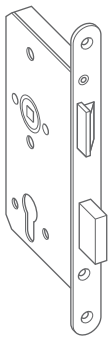
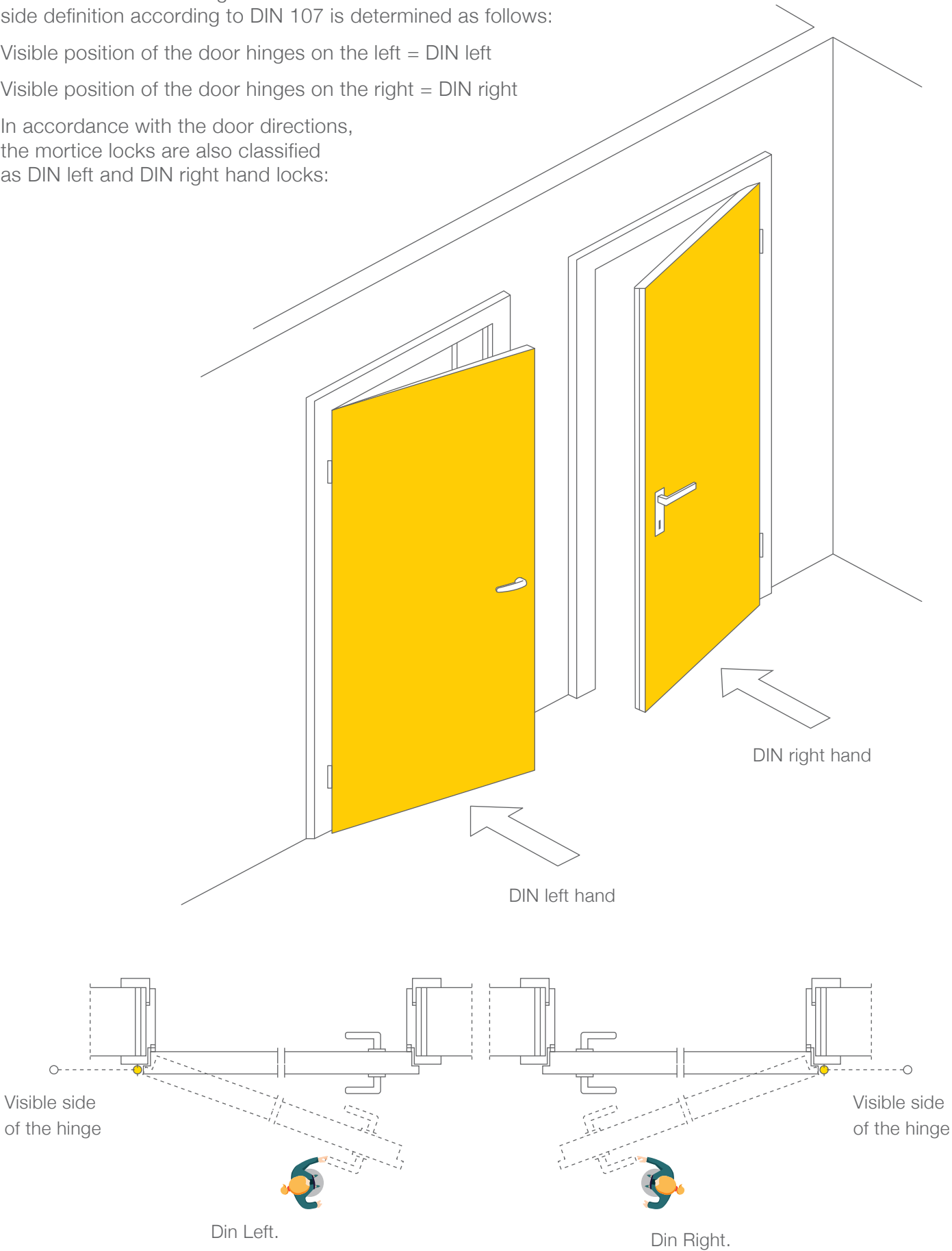
Door direction

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:

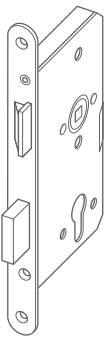
Visible position of the door hinges on the left = DIN left

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

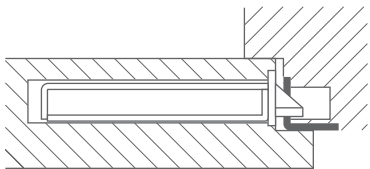
In accordance with the door directions, the mortice locks are also classified as DIN left and DIN right hand locks:



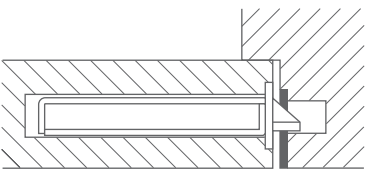
DIN left hand lock
(the straight side
of the latch points
to the left)



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

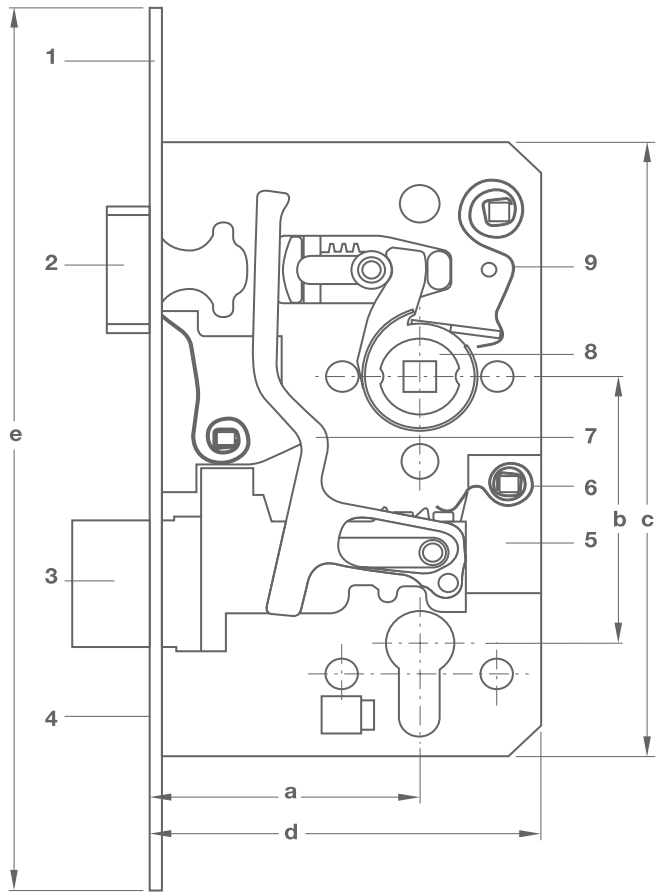


Profile of a rebated door with mortice lock
(forend protruding on one side)



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

