

chant[™] technical

Handing of Handles

The world generally has two practices for the handing of door handles. We adopt the following method:

Handing is necessary in the following situations:

- When lever handles are to have their visible-fixed side on the inside, and the concealed-fixed side on the outside.
- When lever handles are asymmetrical, i.e. cannot be reversed.
- When lever handle back plates have different functions on each side of the door, i.e. lock cylinder on one side, thumb turn on the other.
- Pull handles that are asymmetrical.

Hinges

We do not consider where the hinges are, as some doors do not have hinges. Our terminology applies to doors that swing out, swing in, slide to the left or to the right.

“Outside” is generally the outside of the building, or when standing in front of a door in a;

- Foyer, opening to the dining room, or lounge, or office
- hall opening to a bedroom,
- bedroom opening to an ensuite,
- or the most commonly viewed side,
- or whichever side you choose is the “outside”.

Pairs of handles back to back

The outside is the side that has the concealed-fixed handle on it, or the side which is fixed by the handle fastened on the inside. Refer page 110, Mounting Options.

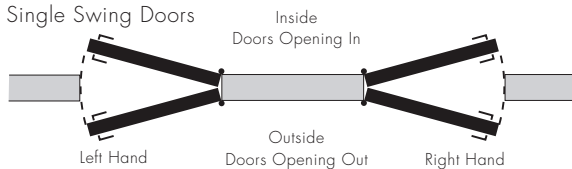
1. To determine the handing, select the side of the door which is the ‘outside’ or the most commonly viewed side. The handle on this side of the door is the concealed fixed handle.
2. If the handle is on the right, it is a RIGHT HAND pair of door handles, if on the left, it is a LEFT HAND pair of door handles.

Note: Applies to doors that open IN or OUT

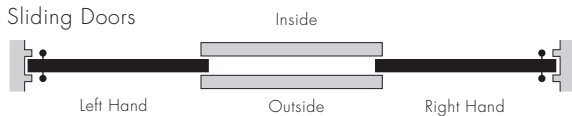
Single Handle

If the handle is on the right, it is a RIGHT HAND handle, on the left, it is a LEFT HAND handle.

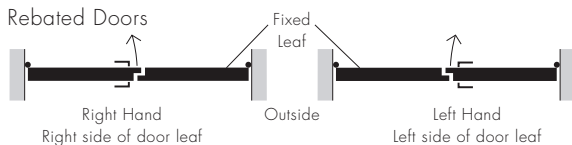
Single Swing Doors



Sliding Doors



Rebated Doors



chant™ Lever Handles on Rose

The following features are incorporated in the design of the roses:

- The handles are reversible on the roses
- 4 hole back to back fixing, 2 holes vertically for use with tubular latches and 2 holes horizontally for use with mortice locks
- Fixing centres available: - 38mm and 41mm
- Spring return on all handles
- Snap on rose cover to provide concealed fixing with screw driver recess to assist removal (these are generally on the inside rose only)
- Fixing plate available to lock the handle from turning
- Spindles supplied, 7.6mm or 8mm
- 5/32" x 3" BSW (76mm) stainless steel screws supplied
- Three rose cover styles: F=Facet, R=Radius, S=Square to complement lever styles and escutcheons in the 3400/3410/3420 Series
- Rose cover styles: P=Pyramid and C=Cylinder are designed for the Cubic and Rod/Angle lever handle styles. These styles are complimented by the escutcheons in the 3430 and 3450 series.

Rose Types 38F/38R/38S/38P/38C

F=Facet/R=Radius/S=Square/P=Pyramid/C=Cylinder
38mm fixing centres for:

- Tubular latch: 60mm backset or longer
- Profile cylinder mortice locks:
 - AGB, CES, chant™, CISA, Dorma, FSB, GSV, Häfele, JADO, KFV, Protector Series, SAB
 - Legge 8762, 57mm backset
- Oval cylinder mortice locks:
 - Astra Brass and Astra S Series
 - Legge 990 MF
 - Union 2041, 127mm backset (has the lock cylinder horizontally in line with the lever handle)
 - Union 2241, 57mm and 82.5mm backsets
- Mortice latch: Union 2677, 57mm backset

Rose Types 41F/41R/41S/41P/41C

F=Facet/R=Radius/S=Square/P=Pyramid/C=Cylinder
41mm fixing centres for:

- Tubular latches, 60mm backset or longer
- Lockwood 3500 Series mortice lock (Australia)
- NT Falcon mortice lock (USA)

Example and specification of an order for lever or fixed handle on rose.

Handle Type	Rose Style	Handing	Lever (L) Fixed (F)	Finish	Spindle Size	Quantity
531	38F	LH	L	SCPV	8mm	5pr

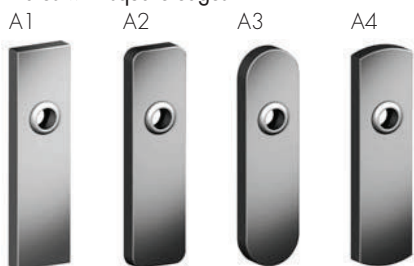
It is recommended that the lock type is stated when ordering lever handles.

refer chant™
Product Finishes
4 – 5

chant™ Door Handle Plates

Plate styles

Plates with square edges



Plates with soft edges

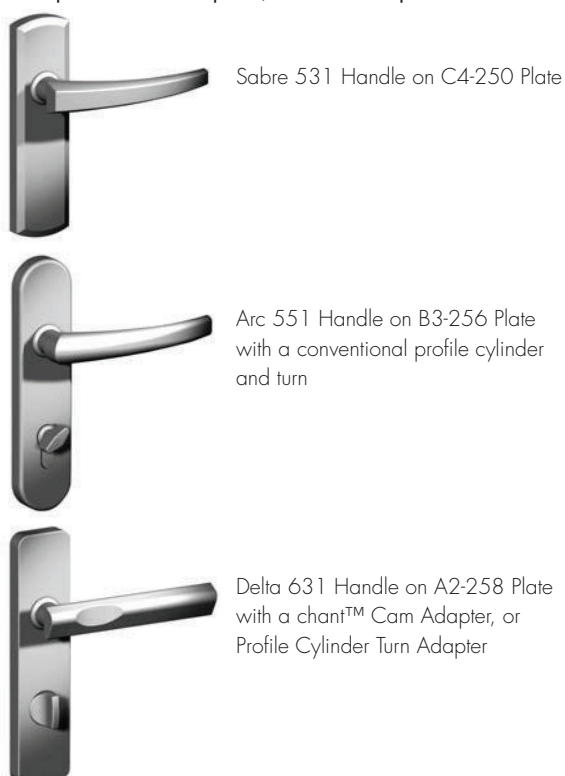


Plates with chamfered edges



This style C1–C5 is available only in 38mm, 44mm and 50mm wide plates

Examples of handles on plates, and with turn options



The combinations of chant™ and Mason handles on different plate styles, allow them to be used to fit a variety of design applications, from contemporary to traditional. Narrow plates for narrow stiles and French doors, wider plates on solid internal doors, and large plates for entrance doors.

All chant™ and Mason handles can be fitted to the plates for all functions, except the Mason Swim lever handle in narrow style applications. The forward overhang of this handle style does not allow it to be used on locks with a backset of less than 55mm.

Plate dimensions

The 32mm and 38mm plates are designed for glazed aluminium and wooden doors where there is space for narrow backset locks only (30mm minimum backsets), and on solid doors where the narrow plate style is required. Handles are not reversible on these plates. The 44mm and 50mm wide plates are designed for latches and locks with a minimum backset of 45mm, and are reversible LH/RH when used with symmetrical handle styles. All plates are 12.5mm deep.

Fixing

The outside plates are concealed fixed and fastened to the door with two screws and mounting collars from the inside of the door. The inside plate slides over the mounting collars and is secured by two socket set screws on the top and bottom edge of the plate.

When plates with an emergency turn are required to have a coloured indicator function showing the lock status, specify 'i' after the plate number: eg 22i.

3-point locking systems

All lever handles on plates can be used with 2 or 3-point locking systems where the handle is operated upwards to set the bolts. Specify 3PL in the order code (Plate Combination), when ordering.

To Create a Specification

1. Select handle style.
2. Select plate style from the chart (A1 – C5).
3. – Select plate width from the following:
32mm, 38mm, 44mm, 50mm
– Select the group corresponding with the lock type required, eg. 30–38 group for a chant™ lock.
– Select the plate number to match the function for both outside and inside plates (if a pair is required) eg. 31+38, or a single plate only for outside or inside, eg. 30 or 35.
4. Select handing – refer to 'Handing of Handles' on page 105.
5. Select handle function: Lever (L) or Fixed (F)
6. Select handle finish. (Alternative finishes on each side of the door may be specified – order carefully!)
7. Specify spindle size: 7.6mm or 8mm
8. Specify quantity required

Example of specifications required for an order

1. Handle Style	2. Plate Style	3. Plate Combination	4. Handing	5. Lever (L) or Fixed (F)	6. Finish	7. Spindle Size	8. Quantity
Sabre 531	C4	21+26*	LH	L	SCPV	7.6mm	2pr

Repeat this ordering sequence for each plate combination required for the project.

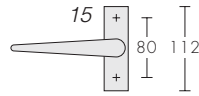
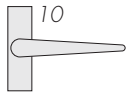
*Please note that an additional specification will be required: The spindle to cylinder barrel or thumb turn centreline dimension, for group 40 and 110 plates, ie. 72, 85 or 92mm.

32mm wide Plates

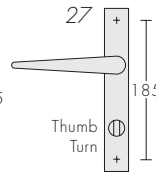
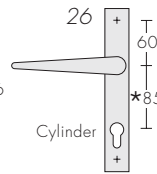
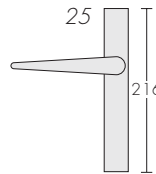
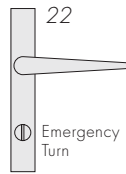
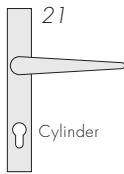
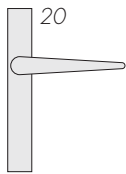
Outside Plates – Concealed fixing. Left hand shown, refer to 'Handing of Handles' for handing specification, page 105

Inside Plates – Semi concealed fixing

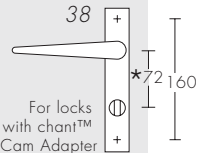
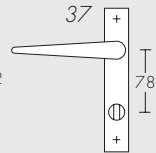
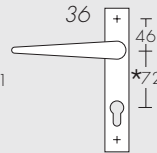
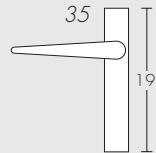
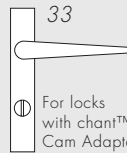
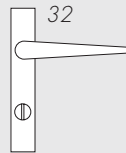
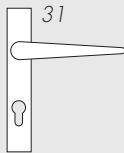
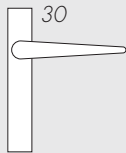
Plates to suit: **Tubular Latches**



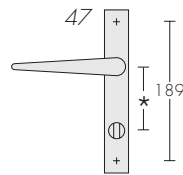
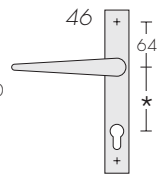
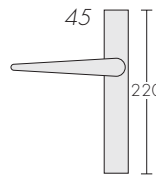
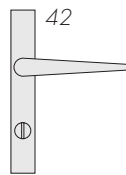
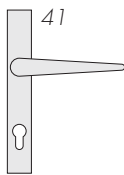
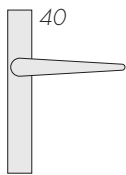
Plates to suit: **AGB, CISA, ISEO, Millton, Protector Series 8500, SAB, Schlage 970, WELKA, etc. mortice locks – 85mm centres***



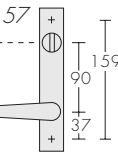
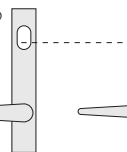
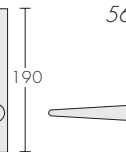
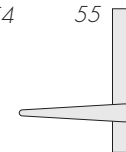
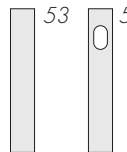
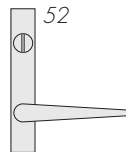
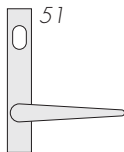
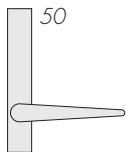
Plates to suit: **chant™, Dorma, FSB, Häfele, JADO, KfV, NEMEF, etc. mortice locks – 72mm centres***



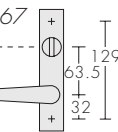
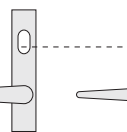
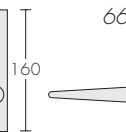
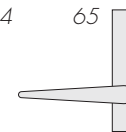
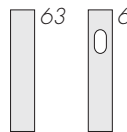
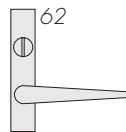
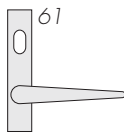
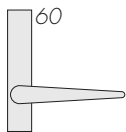
Plates to suit a variety of profile cylinder locks. After the Plate Code Number, specify the spindle to cylinder barrel or thumb turn centreline dimension*. eg. 41+46 – 92mm



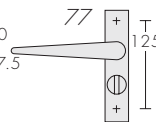
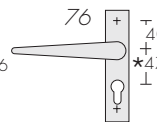
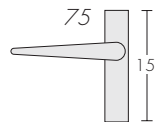
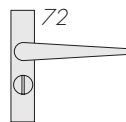
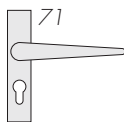
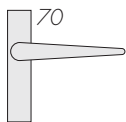
Plates to suit: **Legge 995 MF, Lockwood 5582 – 30mm backset, Lockwood 6582 – 38mm backset narrow stile mortice locks**



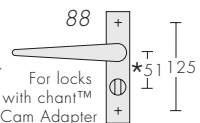
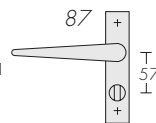
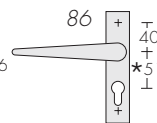
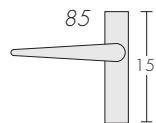
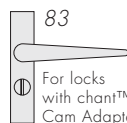
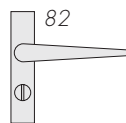
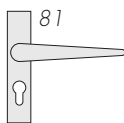
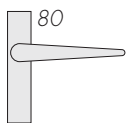
Plates to suit: **Legge 990 Series and Lockwood 3570 Series mortice locks – 60mm, 89mm and 127mm backset**



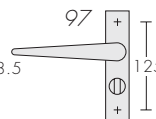
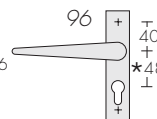
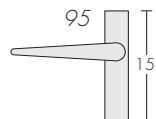
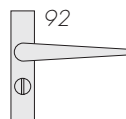
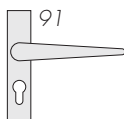
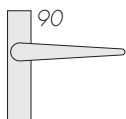
Plates to suit: **Legge 8512, 8642, 8762, Yale 3100, Jackson, etc. mortice locks – 47.5mm centres***



Plates to suit: **Imperial G7000, G8020 etc. mortice locks – 51mm centres***



Plates to suit: **Protector Series 735, Medio ME44 (short or deep backset) etc. mortice locks – 48.5mm centres***

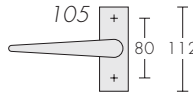
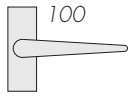


38mm wide Plates

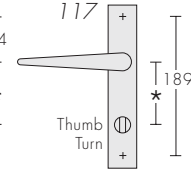
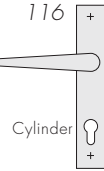
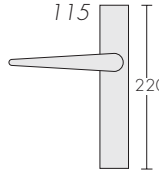
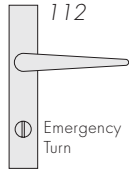
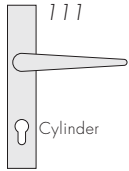
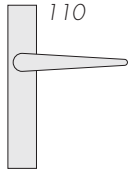
Outside Plates – Concealed fixing. Left hand shown, refer to 'Handing of Handles' for handing specification, page 105.

Inside Plates – Semi concealed fixing

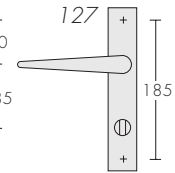
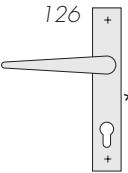
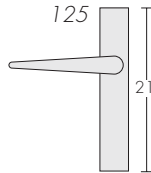
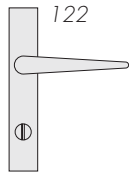
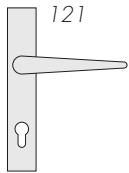
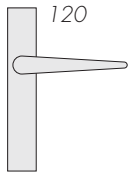
Plates to suit: **Tubular Latches**



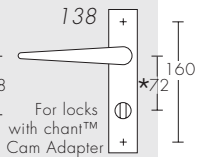
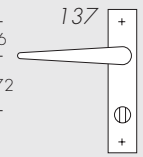
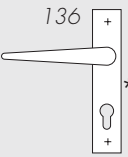
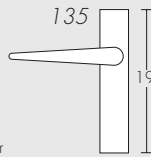
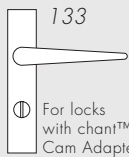
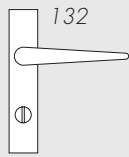
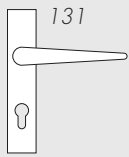
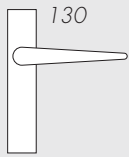
Plates to suit a variety of profile cylinder locks. After the Plate Code Number, specify the spindle to cylinder barrel or thumb turn centreline dimension*. eg. 311+316 – 92mm



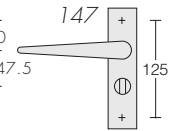
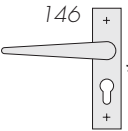
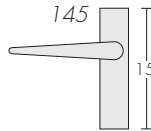
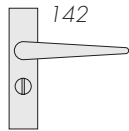
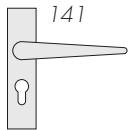
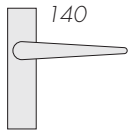
Plates to suit: **AGB, CISA, ISEO, Milton, SAB, Protector Series 8500, Schlage 970, WELKA, etc. mortice locks** – 85mm centres*



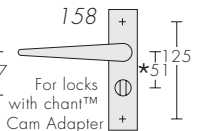
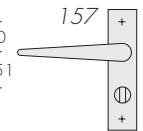
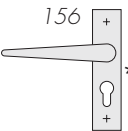
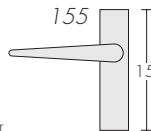
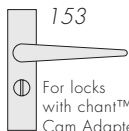
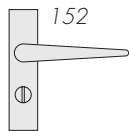
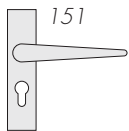
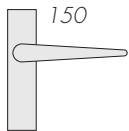
Plates to suit: **chant™, Dorma, FSB, Häfele, JADO, KfV, NEMEF, etc. mortice locks** – 72mm centres*



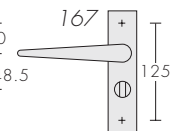
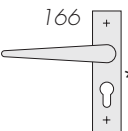
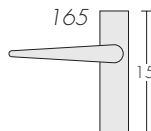
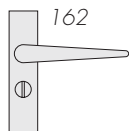
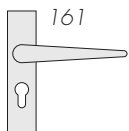
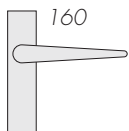
Plates to suit: **Legge 8512, 8642 and 8762; Yale 3100, Jackson, etc. mortice locks** – 47.5mm centres*



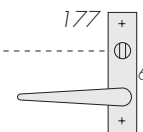
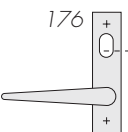
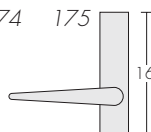
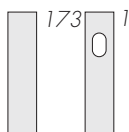
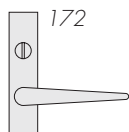
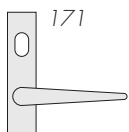
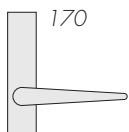
Plates to suit: **Imperial G7000, G8020 etc. mortice locks** – 51mm centres*



Plates to suit: **Protector Series 735, Medio ME44 (short or deep backset) etc. mortice locks** – 48.5mm centres*



Plates to suit: **Legge 990 Series and Lockwood 3570 Series mortice locks** – 60mm, 89mm and 127mm backset

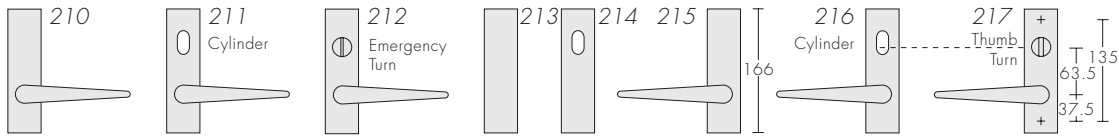


44mm wide Plates Handles on these plates are reversible on-site if the handle is a symmetrical style

Outside Plates – Concealed fixing. Left hand shown, refer to 'Handing of Handles' for handing specification, page 105.

Inside Plates – Semi concealed fixing

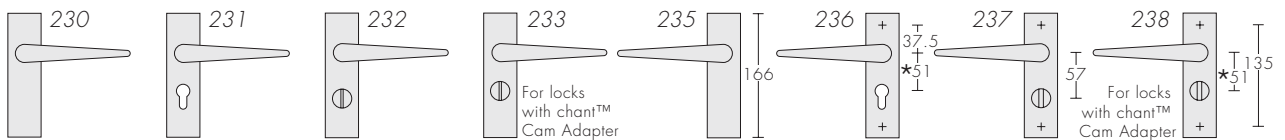
Plates to suit: **Legge 990 Series and Lockwood 3570 Series mortice locks** – 60mm, 89mm and 127mm backset



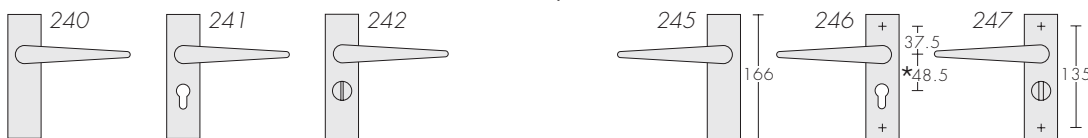
Plates to suit: **Legge 8512, 8642 and 8762; Yale 3100, Jackson, etc. mortice locks** – 47.5mm centres*



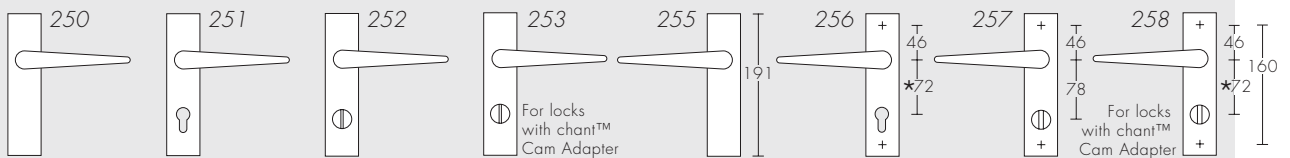
Plates to suit: **Imperial G7000, G8020 etc. mortice locks** – 51mm centres*



Plates to suit: **Protector Series 735, Medio ME44 (short or deep backset) etc. mortice locks** – 48.5mm centres*

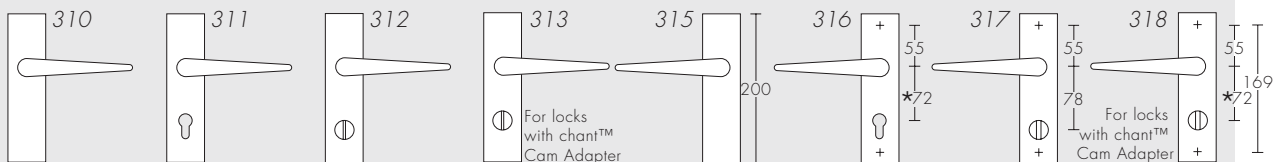


Plates to suit: **chant™, Dorma, FSB, Häfele, JADO, KfV, NEMEF, etc. mortice locks** – 72mm centres*



50mm wide Plates Handles on these plates are reversible on-site if the handle is a symmetrical style

Plates to suit: **chant™, Dorma, FSB, Häfele, JADO, KfV, NEMEF, etc. mortice locks** – 72mm centres*



Plates with Alternative Turn Functions

Cam Adapter



Profile Cylinder Turn Adapter



Some profile cylinder locks can be converted with a chant™ Cam Adapter, to allow the use of plates with thumb and emergency turns. This provides an improved aesthetic appeal over conventional profile cylinder and turns. The cam adapter is operated by the 6mm x 2mm turn bar (A) on the Thumb Turn – refer to chant™ Escutcheons, page 68, eg. used typically on 253+258 plates above.

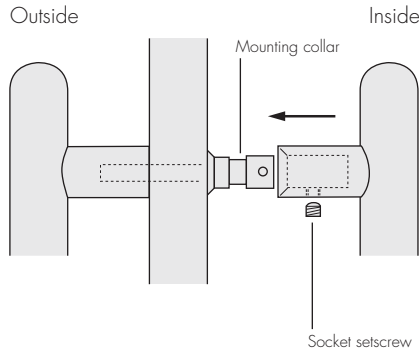
Or, using chant™ Profile Cylinder Turn Adapter. Cylinder plates can be used on the outside of a door with the adapter bar connecting with the slot in the back of the thumb turn on the inside plate, eg. 311+318 plates above.

Refer to chant™ Cylinders and Turns, page 100 for more information on both products.

Pull Handles

Mounting Option 1

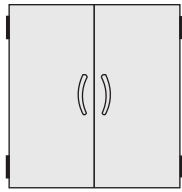
Back to Back (BTB) - Pairs of handles



Example and specification of an order for 2 pair Sabre 522 handles to be mounted back to back on 2 adjacent doors or 1 pair of Cobra 601 handles on a single door.

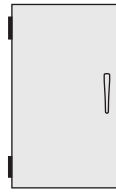
Example/Handle	Mounting	Handing (if applicable)	Finish	Quantity
A/522	BTB	RH	SCPV	1 pair
A/522	BTB	LH	SCPV	1 pair
B/601	BTB	-	COP	1 pair

Example A



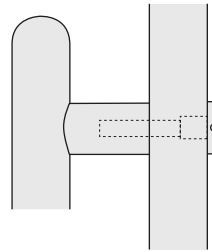
Right hand handle
Left hand handle*

Example B



Mounting Option 2

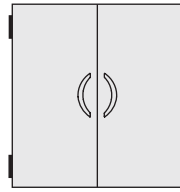
Back Fixed (BF) - One pair of handles on two adjacent doors or a single handle on one door.



Example and specification of an order for 1 pair of Luna 562 handles or 1 only Arc 541 handle.

Example/Handle	Mounting	Fastening Option	Handing (if applicable)	Finish	Quantity
C/562	BF	FS	LH/RH	PBZ	1 pair
D/541	BF	DS	RH	SBZA	1 only

Example C



Example D



*Note: This is a left handle because it is on the left side of the door leaf, when viewed from the "outside" or concealed-fixed side. Refer to chant Technical "Handling of Handles", page 105.

Fastening options for back fixed handles

Countersunk slotted screw -
M6 x 50mm

Code CS



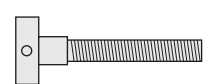
Dome Screw - For glass or wooden doors M6 x 75mm standard length supplied, OR specify door thickness.

Code DS



Flat Screw - For aluminium or wooden doors M6 x 75mm standard length supplied, OR specify door thickness.

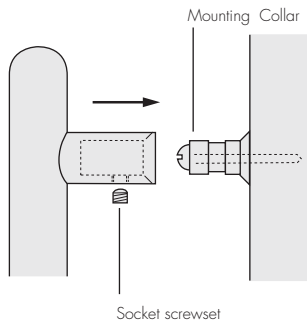
Code FS



Mounting Option 3

Surface Fixed (SF) - One pair of handles on two adjacent doors or a single handle on one door

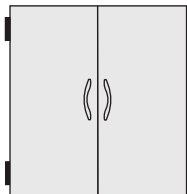
Wooden Doors only. Mounting collars are screwed to the door with 10g x 50mm (2") stainless steel screws. The handle is fixed to the collars with socket setscrews.



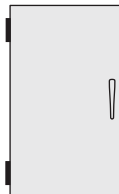
Example and specification of an order for 1 pair of Bow 502 handles or 1 only Cobra 602 handle.

Example/Handle	Mounting	Handing (if applicable)	Finish	Quantity
E/502	SF	LH/RH	SCPV	1 pair
F/602	SF	-	PCP	1 only

Example E



Example F



This surface fixed option can also be used when handles are required on both sides of the door, when they must be mounted independently of each other.

If the handles are a "handed" style, they must be ordered with the handing stated correctly for the handle on each side.

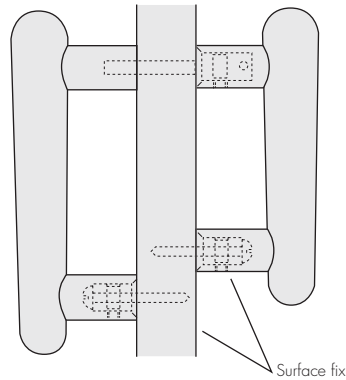
If there is any doubt about our required specification on handing of handles when placing an order, please supply a sketch of the plan view of the door, showing the outside, the hinge position/swing of the door, position of the handle(s) and code number(s).

Mounting Option 4

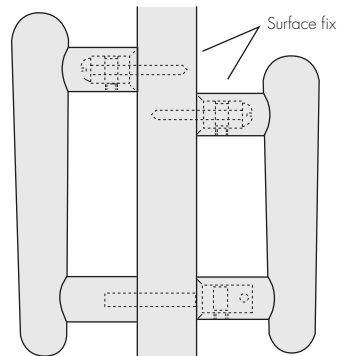
Combination Handles (Pairs of dissimilar handles)

Used in situations where handles are necessary on both sides of a door, and a change in size is required from one side to the other. Example: Large handle on the outside of a front door with a smaller handle on the inside for the entry foyer.

Top to Top, specify - TT



Bottom to Bottom, specify - BB



Note: The options of 'Top to Top' or 'Bottom to Bottom' should be considered to obtain the preferred 'operating height of both handles, and their position in relation to the lock.

Example and specification of an order for combination handles.

Handle Combination	Mounting	Handing (if applicable)	Finish	Quantity
522/524	TT	LH	SCPV	1 pair

Options for Combination Handles

1. Larger handle on outside of door, smaller handle on inside of door eg. 522/524.
2. Both handles are typically from the same suite eg. Sabre.

Pull Handles

Mounting of Door handles on Glass or Sliding Doors.

All chant™ and Mason handles can be mounted on wood, glass and aluminium stile doors. Additional accessories are as follows.

Backing Washers

Available for all Mason pull handles and applications.

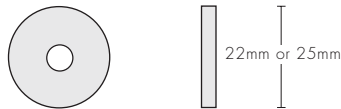
Type - BWA

Used to prevent handle pillars or mounting collars crushing into 'soft' timber surfaces, or as a general backing washer between handle pillars and the door surface on any installation.

Must be used on glass doors with all pull handles.

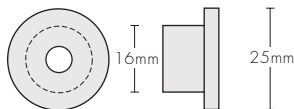
25mm washer diameter for PM01, PM10, PM11, PM12, PM21, PM31, PM32, PM41, PM42 handles.

22mm washer diameter for PM02, PM13, PM22, PM23, PM33, PM36, PM43, PM46 handles.



Type - BWB

Used on 'soft' timber sliding doors. 16mm spigot provides greater bearing load in a lateral direction. Use with all chant™ and Mason handles.



To order with handles specify:

BWA or BWB/Finish required, as a suffix to the handle order specification. The finish on the washers may be different to the handles if required.

Glass Door Mounting

All handles are suitable for mounting BACK TO BACK or SINGLY on glass doors.

Hole positions on glass doors can be determined from the handle specification drawings. Particular care should be taken with any offset of mounting holes to obtain correct vertical alignment, e.g. PM01 Handle with 20mm offset. Ensure the offset is in the correct direction for left hand or right hand handles before making holes.

M8 (8mm diameter) mounting screw for Mason PM00-1000, PM00-800, PM09, PM21-1000, PM21-750, and chant™ Cobra 600 and Delta 620.

M6 (6mm diameter) mounting screw for Mason PM01, PM10, PM11, PM12, PM21, PM31, PM32, PM41, PM42 handles and all other chant™ handles.

M5 (5mm diameter) mounting screw for Mason PM02, PM13, PM22, PM23, PM33, PM36, PM43, PM46 handles.

Minimum hole size in glass is 12mm for M8 screws and 10mm for M6 and M5 screws.

Glass Door Kit includes: nylon washers and sleeves, and backing washers type BWA.

To specify: GDK/Finish (of BWA washers), as a suffix to the handle order specification.

Offset Plates

Offset Plates allow Mason Pull Handles to be mounted on narrow stile doors, where there is insufficient hand clearance between the handle and the edge of the door.

Offset Plates are available for the following handles:

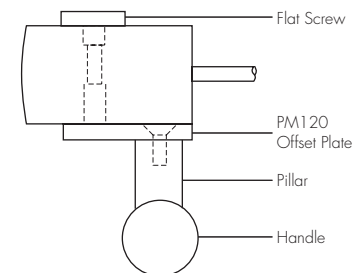
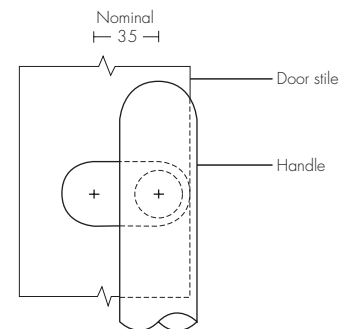
PM01, PM02

PM10, PM11, PM12, PM13

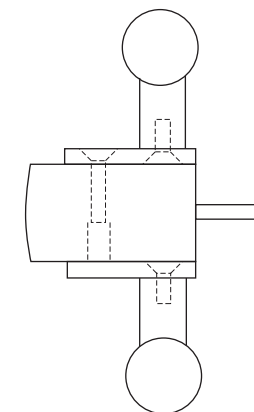
PM21, PM22, PM23

PM41, PM42, PM43

Offset Plates vary in length according to the handle style, and the offset of the handle pillars to the vertical line.



PM120, for mounting a single handle



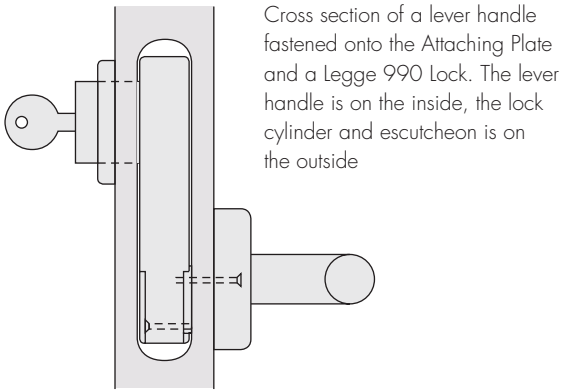
PM121, for mounting a pair of handles

To specify:

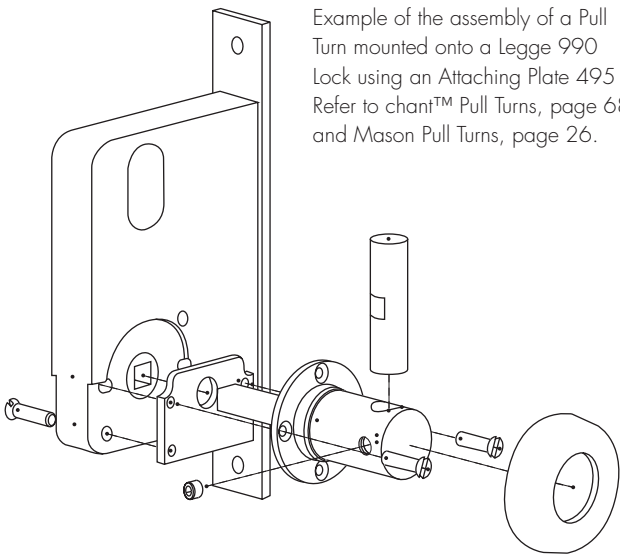
PM120/Handle style/Finish (one set of plates for mounting a single handle, one side only).

PM121/Handle style/Finish (one set of plates for mounting a pair of handles back to back).

i.e. PM121/PM02/SCPV/Quantity.



Cross section of a lever handle fastened onto the Attaching Plate and a Legge 990 Lock. The lever handle is on the inside, the lock cylinder and escutcheon is on the outside



Example of the assembly of a Pull Turn mounted onto a Legge 990 Lock using an Attaching Plate 495. Refer to chant™ Pull Turns, page 68 and Mason Pull Turns, page 26.

Attaching Plates

These Attaching Plates are used to fasten a single chant™ or Mason handle onto a single action mortice lock on the inside of:

- an entrance door with key entry, and a lever handle to withdraw the latch bolt to exit.
- an egress door where the handle withdraws the latch

On an entrance door, this allows for the use of a Chant or Mason pull handle on the outside of the door with a cylinder and escutcheon for key entry, and a lever handle on the inside.

This attaching plate avoids the need to use dummy roses on the outside of the door. The plate is made from 3mm or 5mm thick brass.

Plate 495 is for Legge 990 Locks.

The plate is attached to the lock body with one screw in the bottom corner. It brings the width of the lock case to a nominal 22mm wide, the width of a standard mortice for that lock.

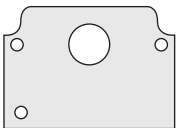
When the lock is installed, the plate is against the inside of the mortice. When the handle is fastened to the plate, the door is sandwiched between them. The fastening screws protrude into the lock case.

Plate 496 is for Lockwood 3500 Series Lock and is 5mm thick. It fits into the recess on the appropriate side of the case and is retained in the recess with double sided tape. It also brings the nominal width of the case to 22mm. It is suitable for Chant lever handles on rose with 41mm fixing centres only.

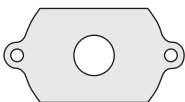
Plate 497 is for SAB Locks.

The plate is attached to the lock body with two screws at the top and bottom of the plate. When the handle is fastened to the plate, the door is sandwiched between them. The fastening screws protrude into the lock case.

Attaching Plate 495 for Legge 990 Series Mortice Lock



Attaching Plate 496 for Lockwood 3500 Series Mortice Lock



Attaching Plate 497 for SAB Mortice Lock

