A9F
INSTALLATION INSTRUCTIONS

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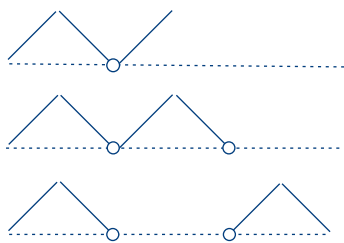www.centorarchitectural.com

Centor ARCHITECTURAL
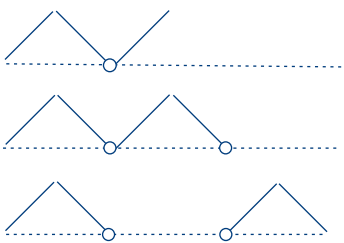creating systems for windows & doors

SET OPTIONS
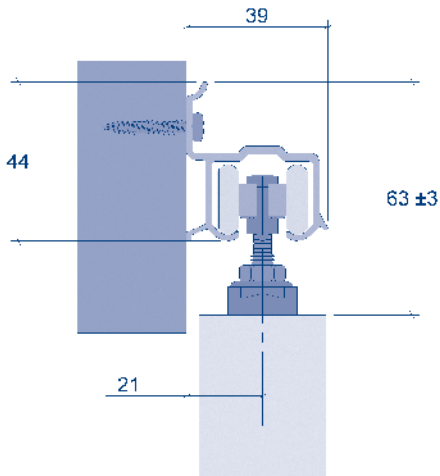

9FF152
Head Fix Aluminium Set
1500mm Opening

9FF204
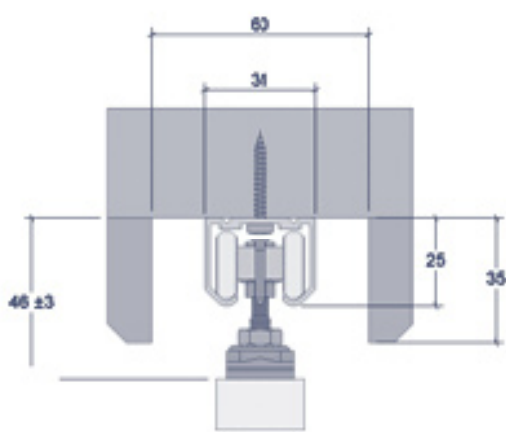Head Fix Aluminium Set
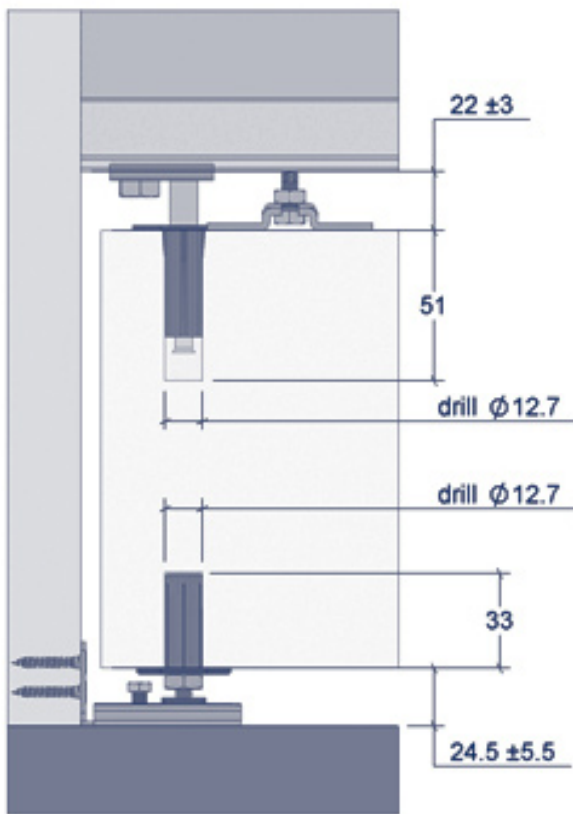2000mm Opening

9FF304
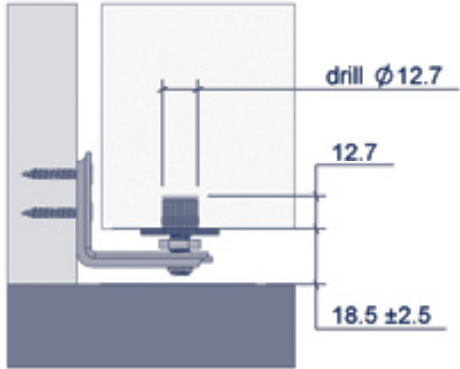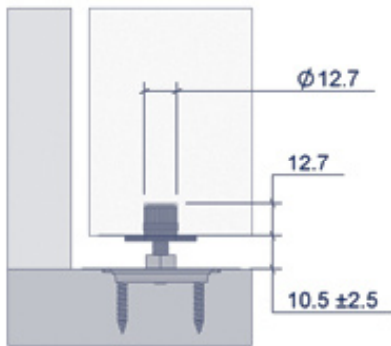Head Fix Aluminium Set
3000mm Opening

SIDE FIX TRACK

TOP FIX TRACK

PIVOTS

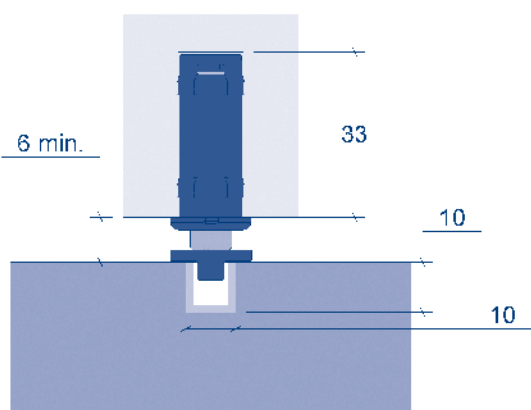9WP Wall Mounted Bottom Pivot

9TP Spring Loaded Top Pivot with 9BFLP Bottom Pivot

9FP Floor Mounted Bottom Pivot

9FCA FLOOR GUIDE IN TIMBER

Other channel options include:

9GC
surface mount channel

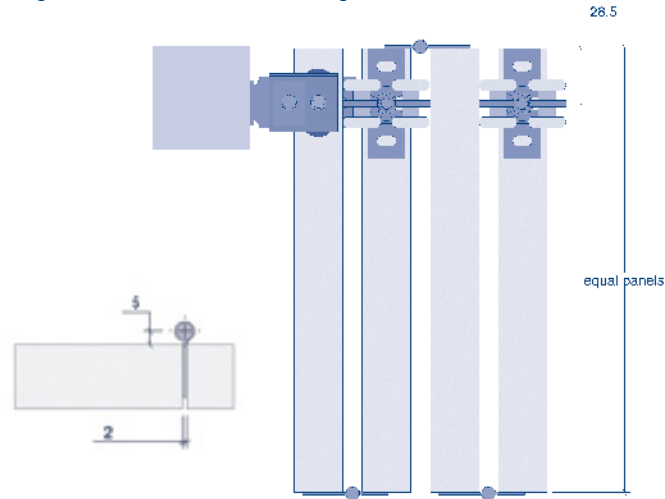**MWT4CA**
tile floor channel

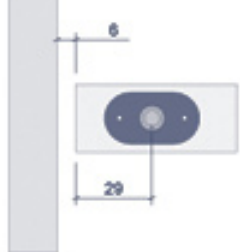## PIVOTED JAMB PANEL INSTALLATION

These preparations and sizing calculations apply for folding systems where the jamb panel is pivoted off the jamb (not hinged). Door sizing calculations are shown below. Note that panel widths are always worked on the "whole door" dimension, not including any tongue (if used). It is important that the carriers and guides are mounted square to the edge, faces and top/bottom of stiles. For bi-folding systems (where panels fold apart both ways) the centre panels can be aligned with 9S Snuggers.

INSTALLATION
Drill pivot and guide rebates, hinge matching panels together, separate panels by releasing one side of each hinge, detach carrier with bolt from carrier bracket, fit top spring-loaded plunger and bottom pivot, fit spring loaded guide (if applicable), feed carriers and top pivot clamp into track, fit track (and guide channel if applicable), adjust and secure top pivot clamp, hang panels one at a time from jamb outwards, use carrier adjusting bolt for final adjustment, tighten lock nut.
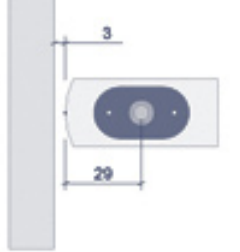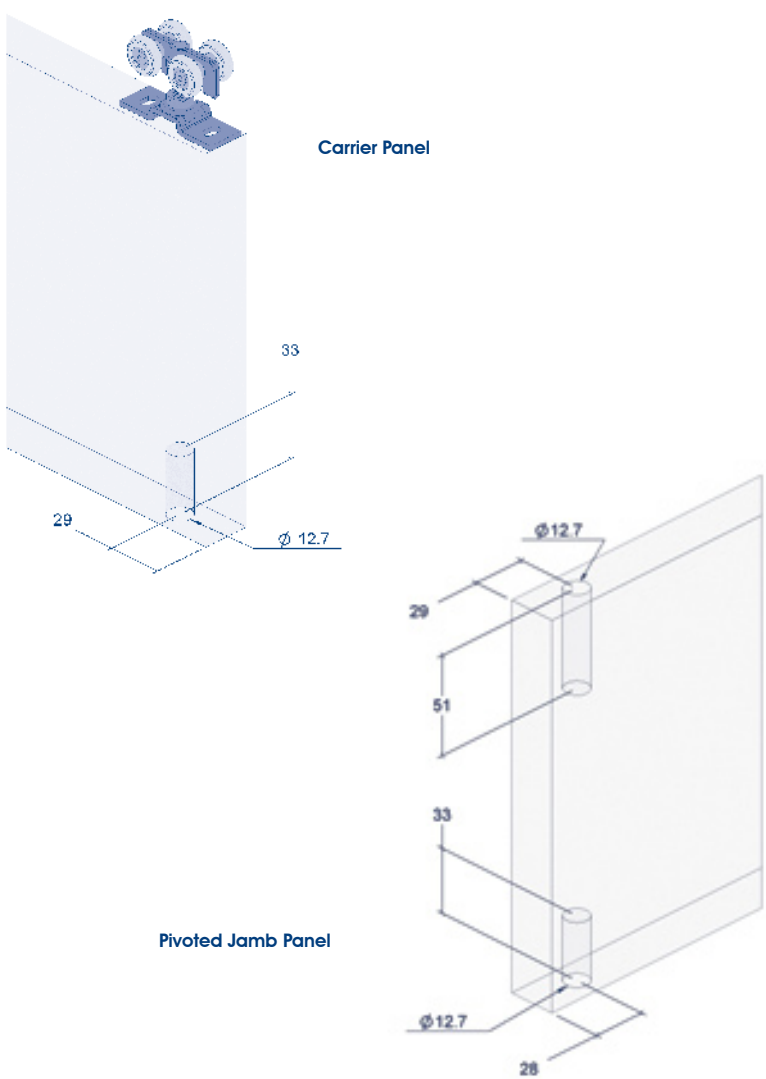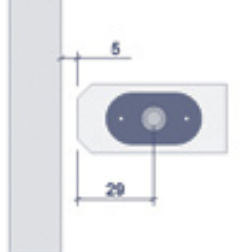
Hinge Clearance = 2mm for 9H Hinge

Jamb Clearances – Plain Stile

Jamb Clearances – Rounded Stile

Jamb Clearances – Chamfered Stile

Carrier Panel

Pivoted Jamb Panel

DOOR PANEL SIZING

$$\text{exact width of panels} = \frac{\text{opening width} - \text{"C"}}{\text{number of panels}}$$

Clearance for doors folding 1 way
clearance "C" = jamb clearance + (number of panels x hinge clearance)

Clearance for doors folding 2 way
clearance "C" = (2 x jamb clearance) + ((number of panels – 1) x hinge clearance)

Select appropriate "jamb clearance" from above illustration based on "jamb panel" stile.

EXAMPLE (1 WAY)

To use 4 panels in a single direction, across an opening of 1690mm, using "plain" stile on jamb panel with 1mm hinge clearance

clearance = 6mm + (4 x 2mm) = 14mm

$$\text{panel widths} = \frac{1690 - 14}{4} = 419\text{mm}$$

EXAMPLE (2 WAY)

To use 3+2 panels in opposing directions, across an opening of 3015mm, using "chamfered" edges on jamb panels and 1mm hinge clearances
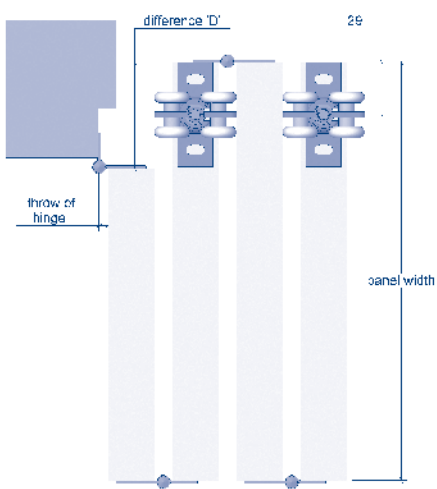
clearance = 2 x 6mm + (5 – 1) x 2 = 20mm

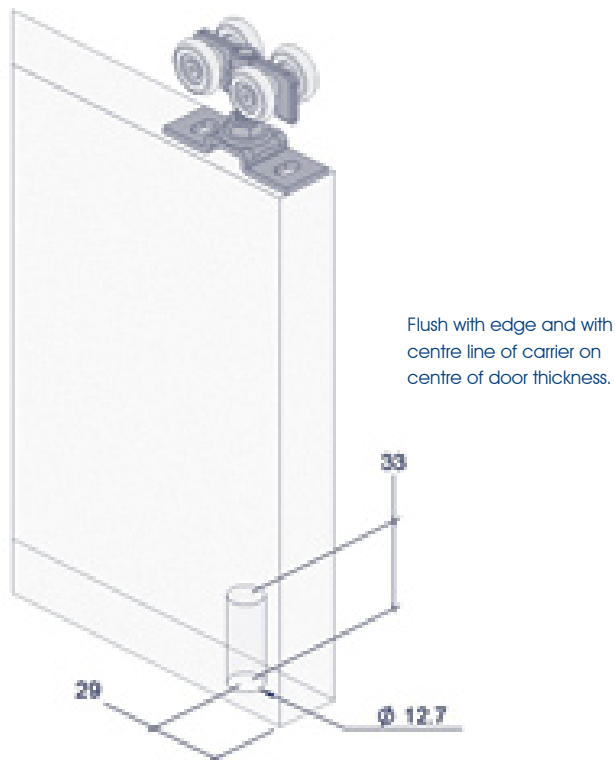$$\text{panel widths} = \frac{3015 - 20}{5} = 599\text{mm}$$

HINGED JAMB PANEL INSTALLATION

These preparations and sizing calculations apply for folding systems where the jamb panel is pivoted off the jamb (not hinged). Door sizing calculations are shown. Note that panel widths are always worked on the "whole door" dimension, not including any tongue (if used). It is important that the carriers and guides are mounted square to the edge, faces and top/bottom of stiles. For bi-folding systems (where panels fold apart both ways) the centre panels can be aligned with 9S Snuggers.

Installation
Drill pivot and guide rebates, hinge matching panels together, separate panels by releasing one side of each hinge, detach carrier with bolt from carrier bracket, fit top spring-loaded plunger and bottom pivot, fit spring loaded guide (if applicable), feed carriers and top pivot clamp into track, fit track (and guide channel if applicable), adjust and secure top pivot clamp, hang panels one at a time from jamb outwards, use carrier adjusting bolt for final adjustment, tighten lock nut.

94CC Carrier Mounting Detail

Flush with edge and with centre line of carrier on centre of door thickness.

9SLG Bottom Pivot Door Preparation Detail

DOOR PANEL SIZING

To avoid error, it is strongly recommended to use Centor's Doorcalc™ software to calculate panel widths. Software is available free of charge at www.centor.com.au

Difference "D" between full panel size and each jamb panel
difference "D" = carrier offset (29mm) + 1/2 door thickness + throw of hinge

Total clearances "C" across opening
clearances "C" = hinge clearance x (number of panels + 1)

Exact width of panels for doors folding 1 way
$$\text{full panel width} = \frac{\text{opening width} + \text{"D"} - \text{"C"}}{\text{number of panels}}$$

Exact width of panels for doors folding 2 ways
$$\text{full panel width} = \frac{\text{opening width} + (2 \times \text{"D"}) - \text{"C"}}{\text{number of panels}}$$

Exact width of all jamb panels
jamb panel width = full panel width – "D"

EXAMPLE (1 WAY)

To use 4 panels x 38mm thick in a single direction, across an opening of 1695mm, with a throw of hinge of 3mm and hinge clearance of 2mm

$$\text{difference "D"} = 29 + \frac{38}{2} + 3 = 51\text{mm}$$

clearance "D" = (4 + 1) x 2mm = 10mm

$$\text{full panel width} = \frac{1695 + 51 - 10}{4} = 434\text{mm}$$

jamb panel width = 434 – 51 = 383mm

Hint to check your calculations
opening = (jamb panel width x qty) + (full panel width x qty) + clearances
1695 = (383 x 1) + (434 x 3) + 10

EXAMPLE (2 WAY)

To use 3 + 2 panels x 20mm thick in opposing directions, across an opening of 3023mm, with a throw of hinge of 3mm and hinge clearance of 2mm

$$\text{difference "D"} = 29 + \frac{20}{2} + 3 = 42\text{mm}$$

clearance "C" = (5+1) x 2mm = 12mm

$$\text{full panel width} = \frac{3022 + (42 \times 2) - 12}{5} = 619\text{mm}$$

jamb panel width = 620 – 42 = 578mm

Hint to check your calculations
opening = (jamb panel width x qty) + (full panel width x qty) + clearances
3022 = (575 x 2) + (620 x 3) + 12