

#JURALCO

JURALCO 350 SERIES ARCHITECTURAL DOOR SYSTEM

Juralco 350 Architectural Door Systems

Juralco Aluminium Building Products Ltd designs and distributes specialist aluminium joinery systems through a national network of franchised fabricators and agents.

For more than 25 years we have been at the forefront of specialist aluminium door and window products suitable for New Zealand joinery and building methods. Our comprehensive product range includes security and insect screens, balustrades and gates, shutters and awnings, shower screens, wardrobe doors and organisers and internal doors.

One of the key design aspects is that in most cases each product is custom-made and installed by our fabricators to suit individual requirements of size, colour and style.

The 350 Series is no exception. The system has been designed to meet present or future design trends in the home or apartment. It can be custom-made in a wide variety of powder-coat or anodised colours with either solid infill or toughened safety glass – with or without mid-rails – top hung or bottom mounted on tracks.

The 350 Series revolutionises the way we consider space. Internal doors are no longer an element of division, but allowing light to flow, modifying surfaces and rooms.

This Guide is intended for use by Architects, Specifiers and Fabricators
Pages 2-4 give a general overview. Pages 5 onwards are intended for Fabricators.
Pages 5-13, Top Hung Doors. Page 14, 350 Hinged Door. Pages 15-25, Bottom Roller Doors



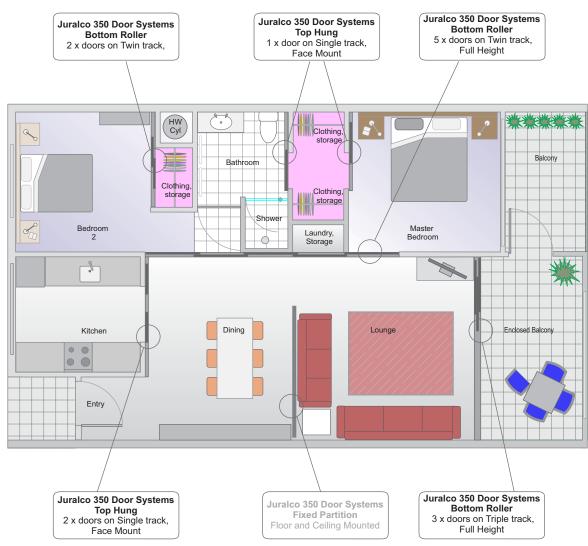




350 Top Hung Door

Cover - 350 Top Hung Door

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Shown below are some typical 350 system Door solutions for this house .

TOP HUNG AND BOTTOM ROLLER DOOR TYPES

The 350 Door System comes in two Basic Types, depending on the application.

- 1 <u>Top Hung</u>. The Door is hung from Track / Rollers at the top of the Door. At floor level there are no tracks, only small plastic floor guides.

 This is suitable for contemporary modern houses, as only the top track is visible.
- 2 <u>Bottom Roller</u>. The door is supported by a shallow floor mounted track. This normally ends up flush with floor coverings.

 The top of the door is guided inside another track. Suitable for multiple doors moving more than their width.

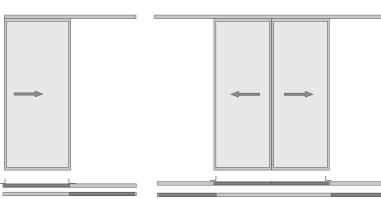
Juralco 350 Architectural Door Systems - Typical Applications

Top Hung Doors (no bottom Track)

One Panel on Single Track (Face Mount)



Two Panels on Two Single Tracks (between Jamb mount)





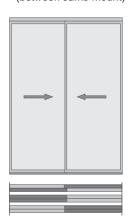
For openings up to about 1100mm wide - gives 100% max opening

For openings up to about 2300mm wide - gives 100% max opening

For openings up to about 2300mm wide - gives 50% max opening

Bottom Roller Doors

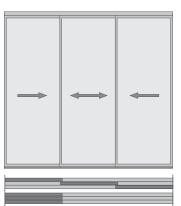
Two Panels on Twin Track (between Jamb mount)



Four Panels on Twin Track (between Jamb mount)



Three Panels on Triple Track (between Jamb mount)



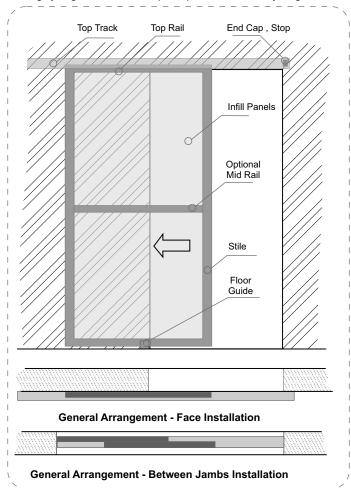
For openings up to about 2300mm wide - gives 50% max opening

For openings up to about 4700mm wide - gives 50% max opening

For openings up to about 3500mm wide - gives 66% max opening

System 1 - Top Hung Type

A Mitered corner type, for Top Hung Rollers only. Recommended for contemporary 1 and 2 Door architectural applications. Can be face mounted or mounted between jambs. Highly engineered for ultra quiet operation and a very long life.



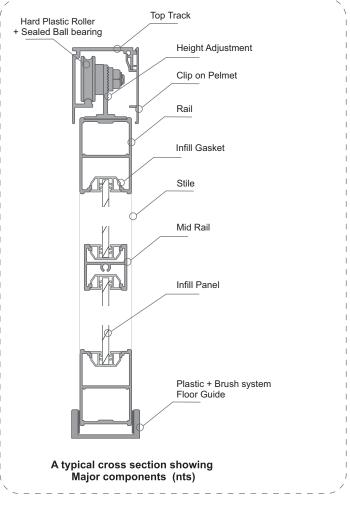
GENERAL DESCRIPTION

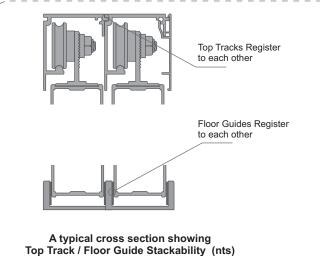
- Doors Max Height 2400mm . Max width 1200mm
- Track mounted stops at end travel with detents
- Aluminium extrusions a range of standard and custom powder coated and anodized finishes - Contact Juralco
- Auto stackability, both in Top Track and Bottom Floor Guides to automatically align doors
- Strong stable frame with maximum corner rigidity
- Quiet , smooth operation guaranteed
- Flush Handle Hardware
- Hidden fixing system no visible plugs, caps.
- Easy positive, on site door height adjustment
- Max weight per panel 35kg

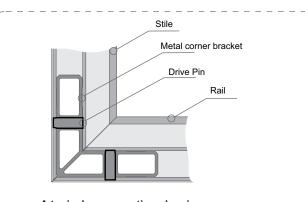
INFILL TYPES

- Infill panel location PVC co-extrusion has a solid body and flexible tongues - firmly locates infill panels in the extrusion in a stylish and minimal manner
- Glass Panels 4 to 5mm thickness, Safety Mirror, Etchlite, Sandblasted, Applied Films.
- Plastic Panels, 4 to 5mm thickness, Polycarbonate or Acrylic Translucent
- Melteca Panels 9mm, Colours
- MDF, 9mm, Gib 10mm for Painting
- Melteca Panels 18m, Colours, Decorative stripping.

Important Note: to conform to NZS4223.3.2016 regulations vinyl backed safety mirror must have a minimum thickness of 4mm with a maximum fully framed area of 2.0m². If the wardrobe system is used as a partition between rooms annealed glass can be used with a minimum thickness of 5mm and maximum area of 0.5m² per panel





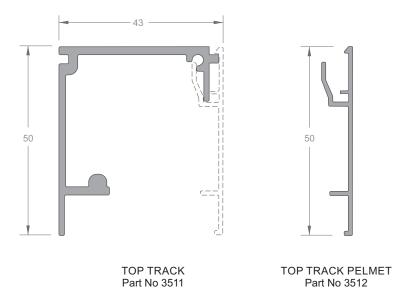


A typical cross section showing Miter Corner / Rigid Insert (nts)

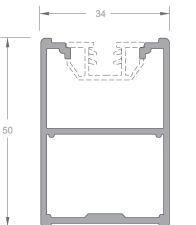
Juralco 350 Systems - Top Hung Door Extrusions

50

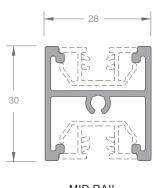
Part No 3512



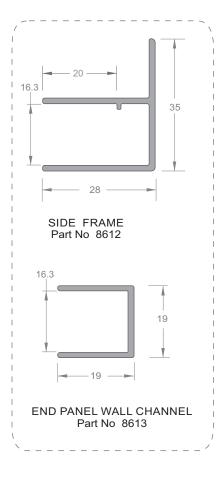


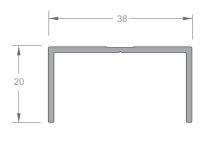


STILE / RAIL Part No 3515



MID RAIL Part No 3522

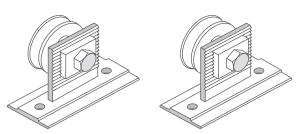




WALL CHANNEL Part No 504

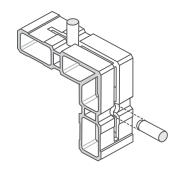
Juralco 350 Systems - Top Hung Door Components

Wheel Bracket Part No W53 (pair)

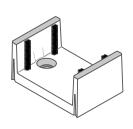


Mitre Bracket Part No W57

Mitre Bracket Pins Part No W57/Pins (pair)



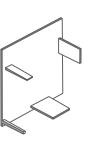
External Floor Guide Part No W59



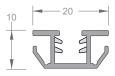
Top Track Door Stop Part No W52



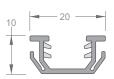
Track End Cap Part No W58 (pair)



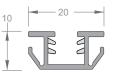
Gaskets, Inserts



INFILL GASKET - SMALL Panels 4mm - 5mm Part No W51/2.6



INFILL GASKET - LARGE Panels 9mm - 10mm Part No W55/2.6

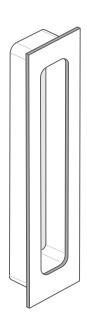


INFILL GASKET - MEDIUM Panels 6mm - 8mm Part No W60/2.6

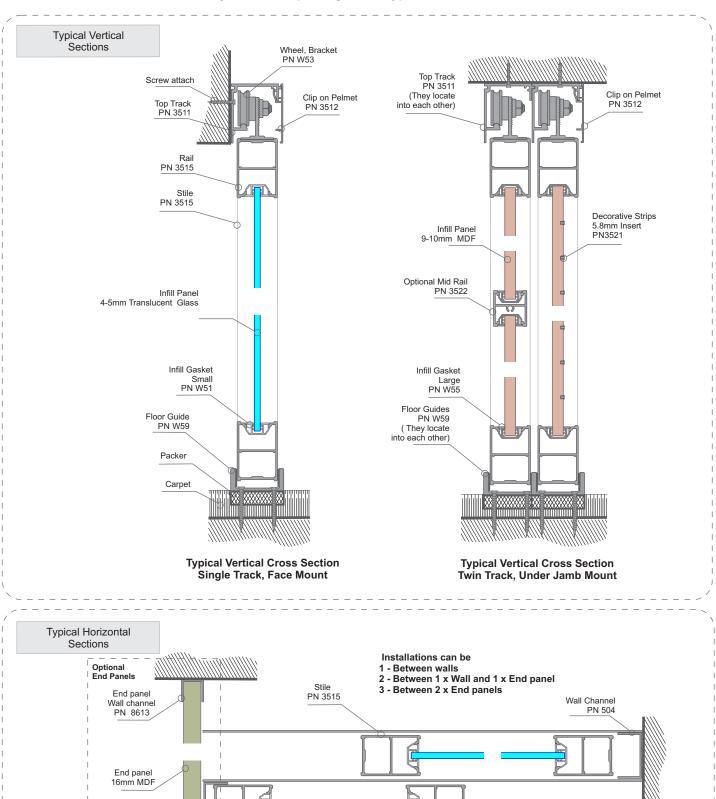


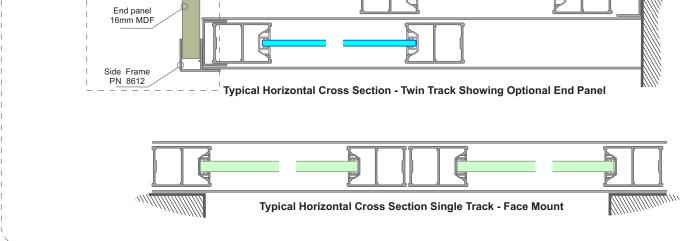
8mm INSERT Part No 3521

Flush Pull Handle Part No W56

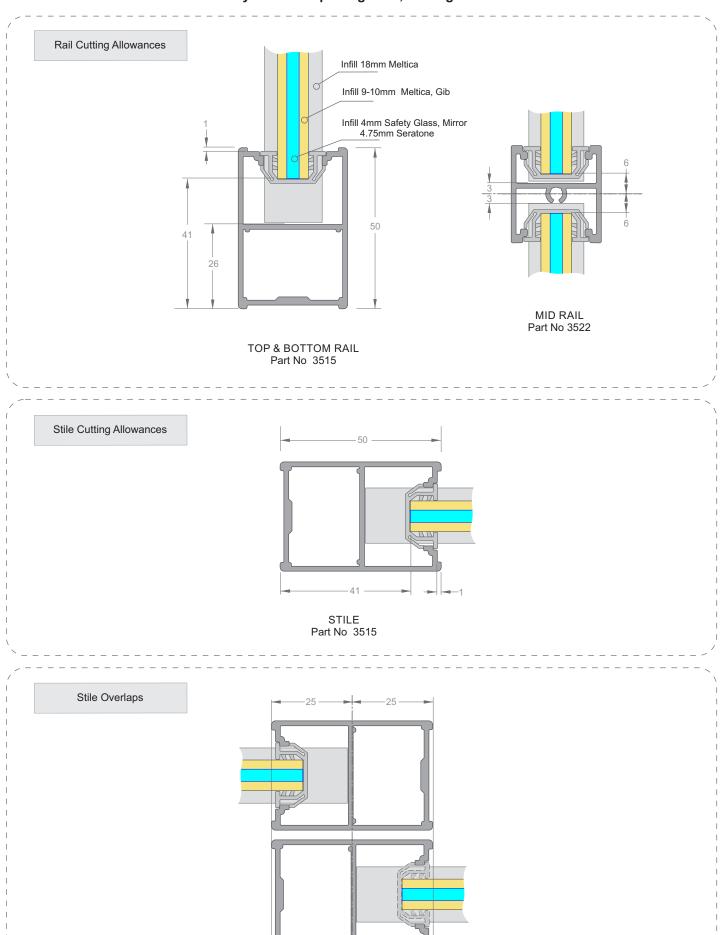


Juralco 350 Systems - Top Hung Door, Typical Sections and Features



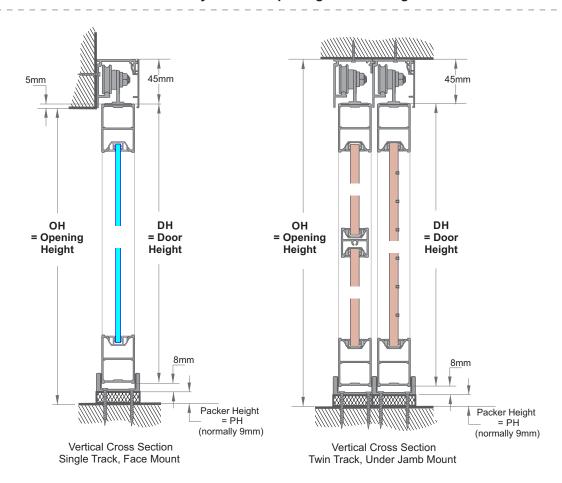


Juralco 350 Systems - Top Hung Door, Cutting and Infill Allowances



STILE Part No 3515

Juralco 350 Systems - Top Hung Door Cutting

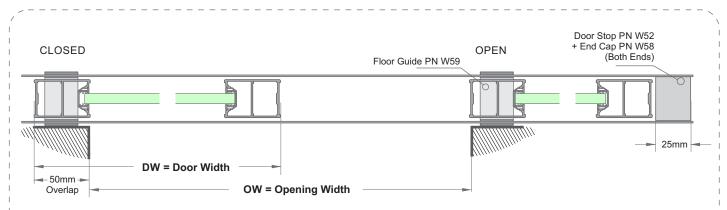


TOP HUNG DOORS - HEIGHT CUTTING FORMULA

	HEIGHTS - FACE MOUNT	Part	Formula in mm
1	Single Door - Height = DH		OH - PH - 3 (= DH)
2	Stiles incl Miter	3515	DH
3	Infill Gasket	W51, W55	DH - 52
4	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DH - 82
5	Infills, 18mm Meltica (no Gasket)	NA	DH - 52

	HEIGHTS - UNDER JAMB MOUNT	Part	Formula in mm
1	Single Door - Height = DH		OH - PH - 53 (= DH)
2	Stiles incl Miter	3515	DH
3	Infill Gasket	W51, W55	DH - 52
4	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DH - 82
5	Infills, 18mm Meltica (no Gasket)	NA	DH - 52
6	Wall Channel (trim to architrave)	504	DH

Note: Mirror, Glass panel size imitations. Refer to page 5

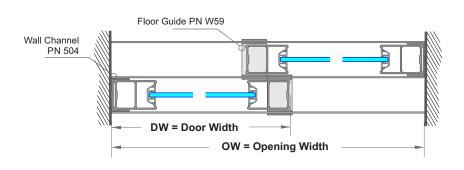


Typical Horizontal Cross Section Single Track - Face Mount

SINGLE TRACK, ONE or TWO DOORS - WIDTH CUTTING FORMULA

	WIDTHS - ONE DOOR	Part	Formula in mm
1	Top Track	3511	2 x OW + 150
2	Top Track Pelmet	3512	2 x OW + 150
3	Single Door, Width = DW		OW + 100 (= DW)
	WIDTHS - TWO DOORS	Part	Formula in mm
1	Top Track	3511	2 x OW + 150
2	Top Track Pelmet	3512	2 x OW + 150
3	Single Door, Width = DW		OW/2 + 50 (= DW)
	WIDTHS	Part	Formula in mm
1	Top, Bottom Rail incl Miters	3515	DW
2	Infill Gasket	W51, W55	DW - 98
3	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DW - 82
4	Infills, 18mm Meltica (no Gasket)	NA	DW- 52
5	Mid Rail	3522	DW - 98

Note: Mirror, Glass panel size imitations. Refer to page 5

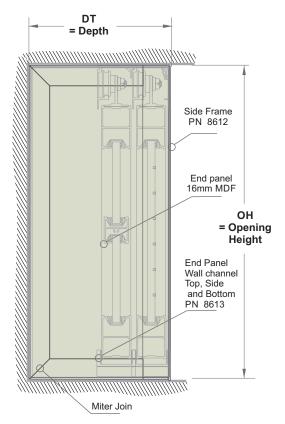


Typical Horizontal Cross Section Single Track - <u>Under Jamb Mount</u>

TWO TRACKS, TWO DOORS - WIDTH CUTTING FORMULA

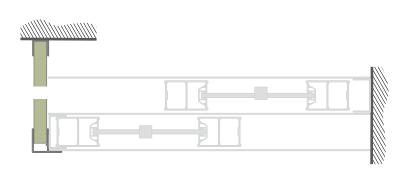
	WIDTHS	Part	Formula in mm
1	Top Track	3511	OW
2	Top Track Pelmet	3512	OW
3	Single Door, Width = DW		OW / 2 + 25 (= DW)
4	Top, Bottom Rail incl Miters	3515	DW
5	Infill Gasket	W51, W55	DW - 98
6	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DW - 82
7	Infills, 18mm Meltica (no Gasket)	NA	DW - 52
8	Mid Rail	3522	DW - 98

Note: Mirror, Glass panel size imitations. Refer to page 5



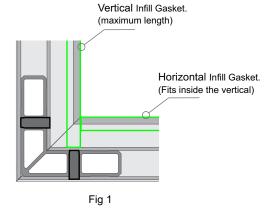
END PANELS, CUTTING FORMULA

	ITEM	PART	Formula in mm
1	Side Frame - Height	8612	ОН
2	Wall Channel - Height (Miter ends)	8613	ОН
3	Wall Channel - Depth (1 x Miter end)	8613	DT- 28
4	Infill - 16mm MDF - Height	NA	OH - 4
5	Infill - 16mm MDF - Depth	NA	DT- 20

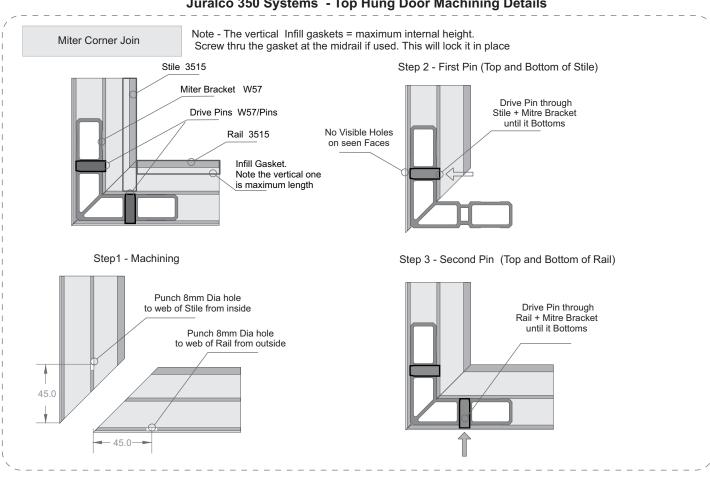


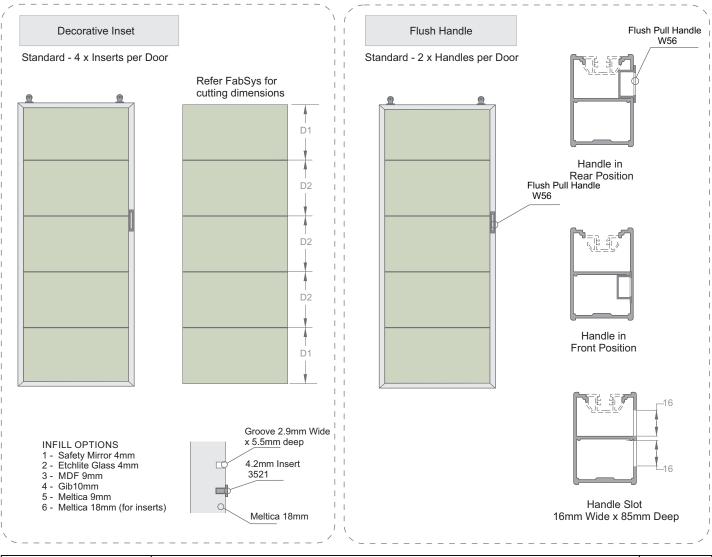
Recommended Manufacturing & Assembly procedure for Top Hung Panels

- 1 Ensure work area is clean and free from dust. Hands must be clean and free from dirt / oils.
- 2 Inspect aluminium extrusions to ensure they are free of extrusion or surface finishing defects.
- 3 Cut aluminium extrusions to size following the cutting instructions.
- 4 Rout and insert handles in stiles and drill holes in top & bottom rails and stiles as per instructions.
- 5 Drill for wheels on the top rail.
- 6 Fit Miter Brackets to top and bottom of each stile, tap pins in firmly.
- 7 Cut glazing inserts and infill to size as per cutting formula.
- 8 Run the vertical Infill gasket to the Door maximum internal height as per Fig 1 below. Fit the infill gasket to the edges of the infill by raising the infill face upwards on blocks and gently tapping with a soft mallet. The midrail (if used) assembly screw will then lock it in place
- 9 Centre and press on top and bottom rail.
- 10 Centre and press on both stiles ensuring that the handle is facing the best panel side. Tap to ensure miters are tight and panel is square.
- 11 Insert pins into miter brackets on the top and bottom rails, tap pins in firmly.
- 12 Insert wheels onto the top rail, attach.
- 13 Clean off all fingermarks, leave site clean and tidy.

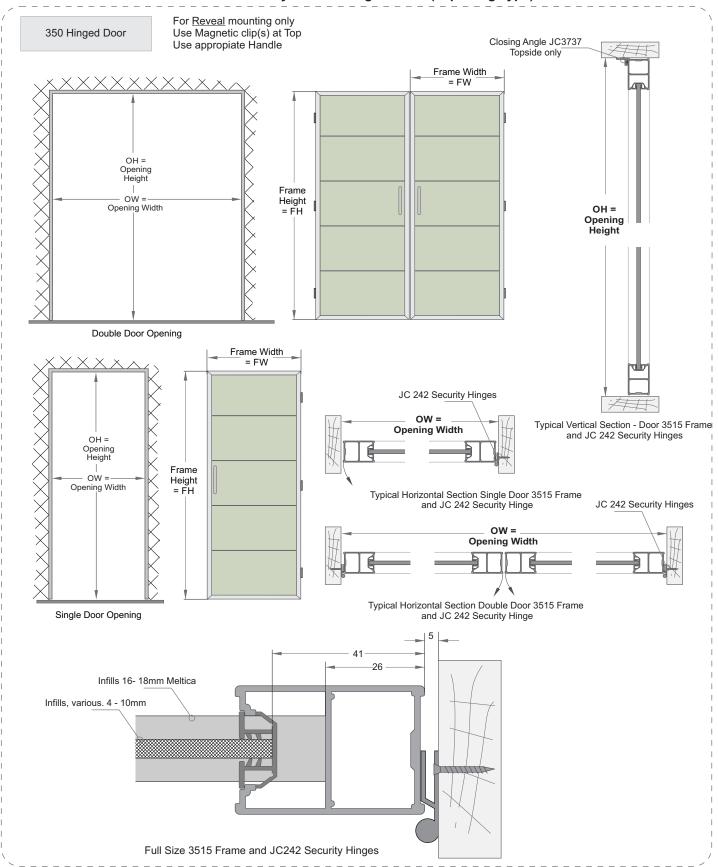


Juralco 350 Systems - Top Hung Door Machining Details





Juralco 350 Systems - Hinged Door (Top Hung Type)



350 HINGED DOORS - CUTTING CALCULATIONS

	Heights. Single or Double	Part	Formula, mm
1	Frame Height = FH	3515	OH - 6 (=FH)
2	Infill Height, (4-10mm) incl Gasket	NA	FH - 82
3	Infill Height (16-18mm) No Gasket	NA	FH - 52

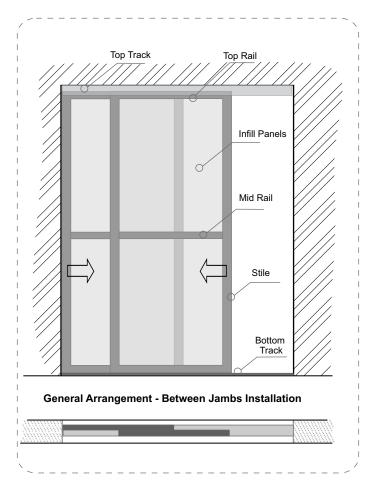
Note : Mirror, Glass panel size imitations	. Refer to page 3
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	Widths. SingleDoor	Part	Formula, mm
1	Frame Width = FW	3515	OW - 10 (=FW)
2	Infill Width (4-10mm) incl Gasket	NA	FW - 82
3	Infill Width (16-18mm) No Gasket	NA	FW - 52

	Widths. DoubleDoor	Part	Formula, mm
1	Frame Width = FW	3515	OW/2 - 8 (=FW)
2	Infill Width (4-10mm) incl Gasket	NA	FW - 82
3	Infill Width (16-18mm) No Gasket	NA	FW - 52

System 2 - Bottom Roller Type

A Butted corner type, for Bottom Roller operation A cost effective system for all architectural applications where multiple doors are to move distances greater than their width.



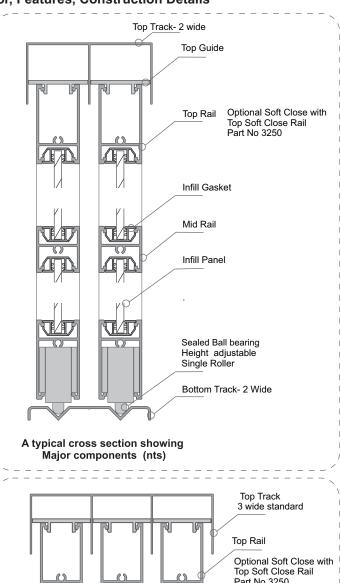
GENERAL DESCRIPTION

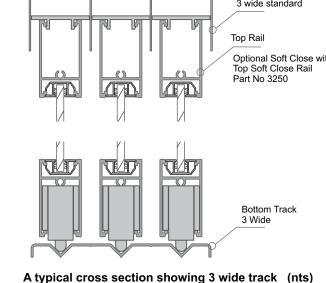
- Doors Max Height 2700mm . Max width 1200mm
- Top Track install Between Jambs mount only
- Aluminium extrusions a range of standard and custom powder coated and anodized finishes - Contact Juralco
- Two and Three track systems, suitable for multiple doors.
- Strong stable frame with maximum corner rigidity
- Quiet, smooth operation guaranteed
- Flush Handle Hardware
- Large float for door height / floor variations
- Easy, positive, on site height adjustment.
- Optional Soft Close

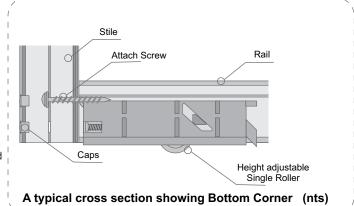
INFILL TYPES

- Infill panel location PVC co-extrusion has a solid body and flexible tongues - firmly locates infill panels in the extrusion in a stylish and minimal manner
- Glass Panels 4 to 5mm thickness, Safety Mirror, Etchlite, Sandblasted, Applied Films.
- Plastic Panels, 4 to 5mm thickness, Polycarbonate or Acrylic Translucent
- Melteca Panels 9mm, Colours
- MDF, 9mm, Gib 10mm for Painting
- Melteca Panels 18m, Colours, Decorative stripping.

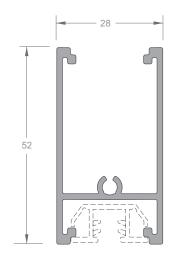
Important Note: to conform to NZS4223.3.2016 regulations vinyl backed safety mirror must have a minimum thickness of 4mm with a maximum fully framed area of 2.0m². If the wardrobe system is used as a partition between rooms annealed glass can be used with a minimum thickness of 5mm and maximum area of 0.5m² per panel



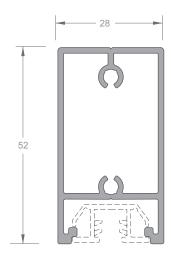




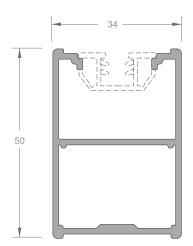
Juralco 350 Systems - Bottom Roller Door Extrusions



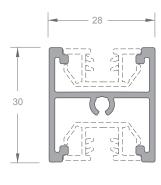
TOP or BOTTOM RAIL Part No 3516



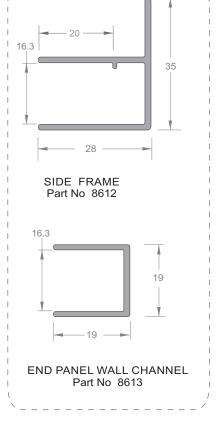
TOP SOFT CLOSE RAIL Part No 3520

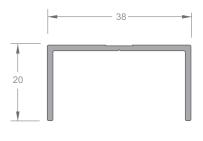


STILE Part No 3515

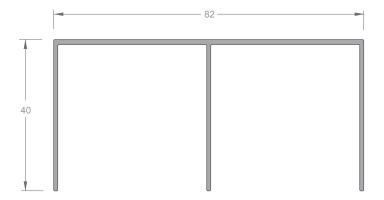


MID RAIL Part No 3522

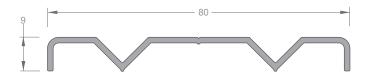




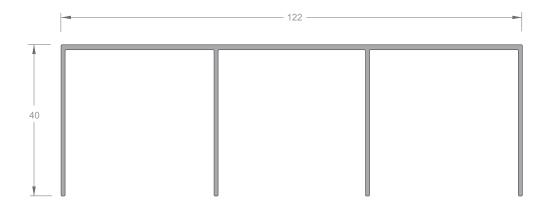
WALL CHANNEL Part No 504



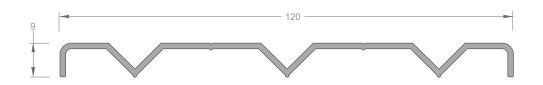
TOP GUIDE TRACK - 2 DOOR Part No 8218



BOTTOM TRACK - 2 DOOR Part No 3517



TOP GUIDE TRACK - 3 DOOR Part No 8228



BOTTOM TRACK - 3 DOOR Part No 3527

Juralco 350 Systems - Bottom Roller Door Components

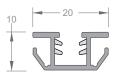
Fastener No6 x 35 Pan Head Screw Cover Cap Part No SJ 037 Top Guide Part No W54





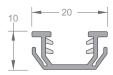


Gaskets, Inserts



10 20

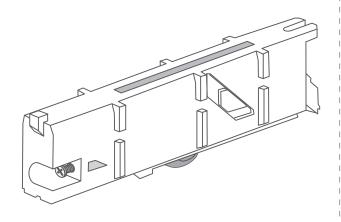
INFILL GASKET - SMALL Panels 4mm - 5mm Part No W51/2.6 INFILL GASKET - MEDIUM Panels 6mm - 8mm Part No W60/2.6



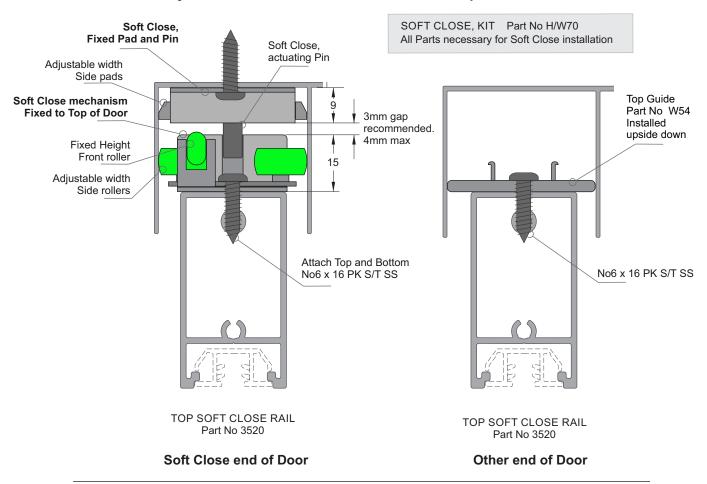


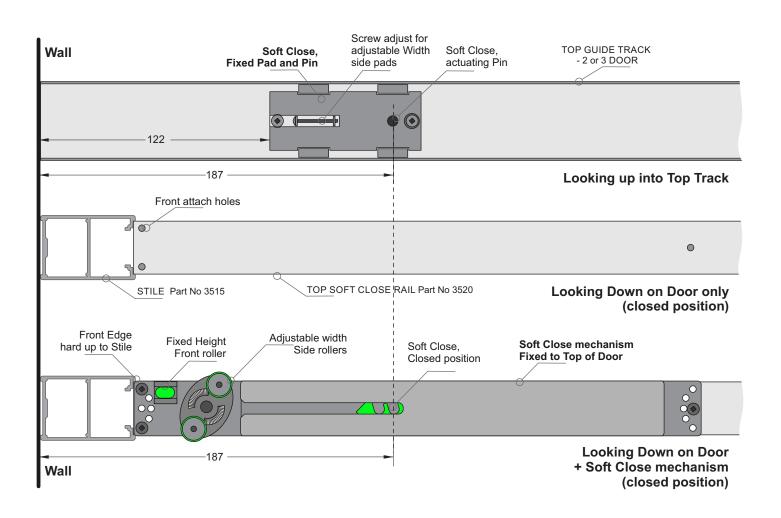
INFILL GASKET - LARGE Panels 9mm - 10mm Part No W55/2.6

8mm INSERT Part No 3521 Wheel Assembly Part No W50

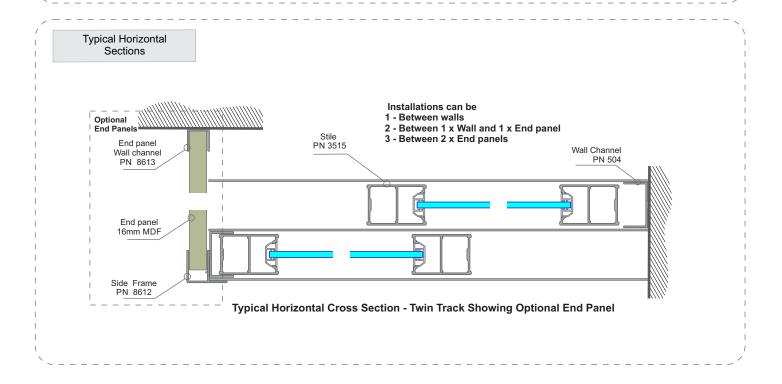


Juralco 350 Systems Bottom Roller Door - Soft Close - Components and Setout

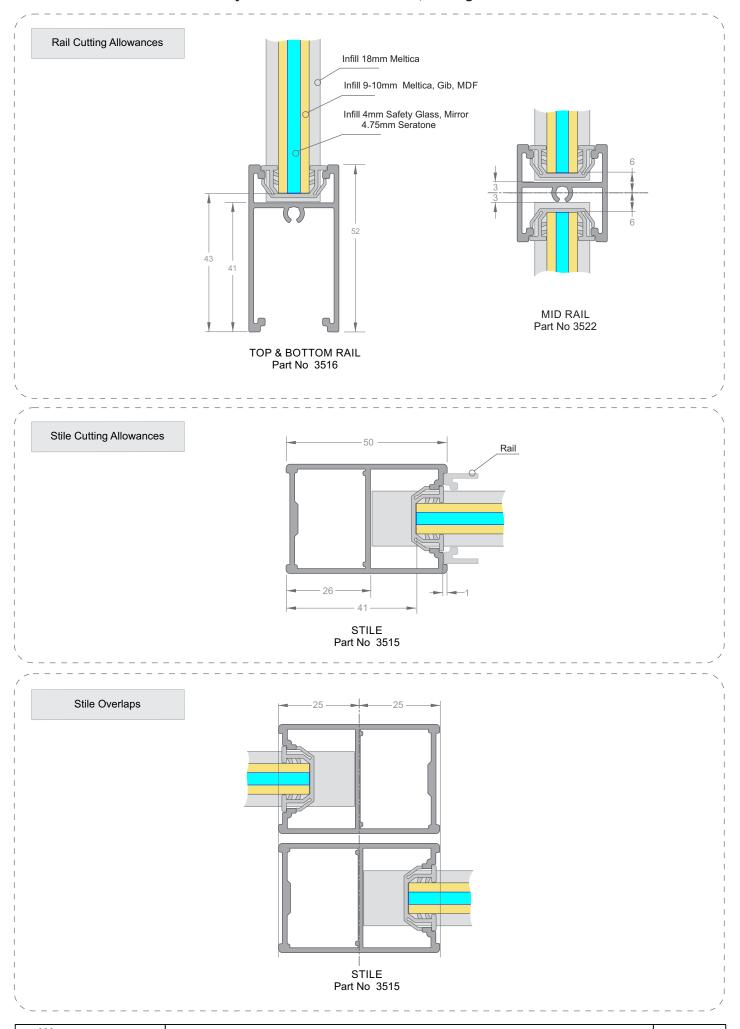




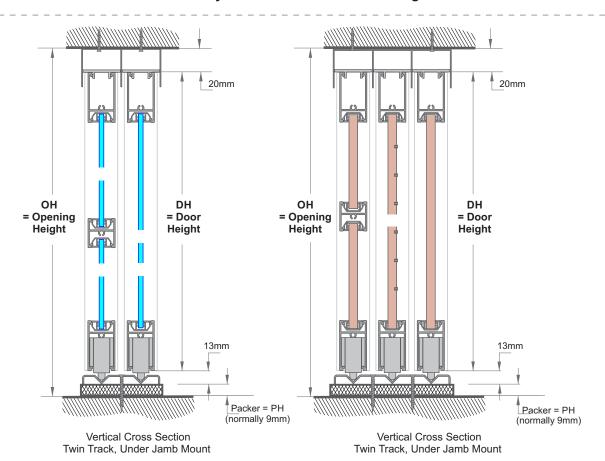
Typical Vertical Sections Screw attach Top Track PN 8218 Top Guide PN W54 Rail PN 3516 Stile PN 3515 Infill Panel 4mm Safety Mirror Infill Gasket Large PN W55 Decorative Strips 5.8mm Insert PN3521 Infill Gasket Small PN W51 Optional Mid Rail PN 3522 Infill Panel 9-10mm MDF Infill Panel 4mm Translucent Glass Infill Panel 18mm MDF, Meltica (no Gasket) Wheel Assembly PN W50 Bottom Track PN 3517 Packer Carpet **Typical Vertical Cross Section Typical Vertical Cross Section** Twin Track, Under Jamb Mount Triple Track, Under Jamb Mount



Juralco 350 Systems - Bottom Roller Door, Cutting and Infill Allowances



Juralco 350 Systems - Bottom Roller Cutting

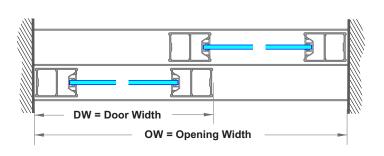


BOTTOM ROLLER DOORS - HEIGHT CUTTING FORMULA

	HEIGHT	Part	Formula in mm
1	Single Door, Height = DH		OH - PH - 33 (= DH)
2	Stiles , 90 deg ends	3515	DH
3	Infill Gasket	W51, W55	DH
4	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DH - 86
5	Infills, 18mm Meltica (no Gasket)	NA	DH - 82
6	Wall Channel (trim to architrave)	504	DH

Note - The vertical Infill gaskets = the full height of the door. Screw thru the gasket top /(mid) / bottom. This will lock it in place

Note: Mirror, Glass panel size imitations. Refer to page 15

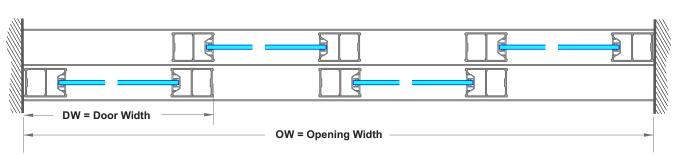


Typical Horizontal Cross Section Twin Tracks - <u>Under Jamb Mount</u>

DOUBLE TRACK, TWO DOORS - WIDTH CUTTING FORMULA

	WIDTHS	Part	Formula in mm
1	Top Track	8218	OW
2	Bottom Track	3517	OW
3	Single Door, Width = DW		OW / 2 + 25 (= DW)
4	Top, Bottom Rail	3516	DW - 98
5	Infill Gasket	W51, W55	DW - 98
6	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DW - 82
7	Infills, 18mm Meltica (no Gasket)	NA	DW - 52
8	Door, Mid Rail	3522	DW - 98

Note: Mirror, Glass panel size imitations. Refer to page 15

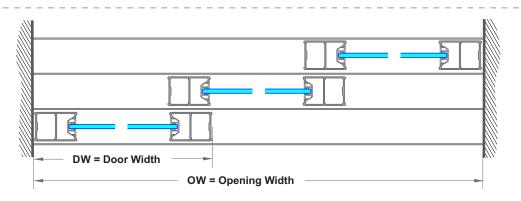


Typical Horizontal Cross Section Twin Tracks - <u>Under Jamb Mount</u>

DOUBLE TRACK, FOUR DOORS - WIDTH CUTTING FORMULA

	WIDTHS	Part	Formula in mm
1	Top Track	8218	OW
2	Bottom Track	3517	OW
3	Single Door, Width = DW		OW / 4+ 38 (= DW)
4	Top, Bottom Rail	3516	DW - 98
5	Infill Gasket	W51, W55	DW - 98
6	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DW - 82
7	Infills, 18mm Meltica (no Gasket)	NA	DW - 52
8	Door, Mid Rail	3522	DW - 98

Note : Mirror, Glass panel size imitations . Refer to page 15

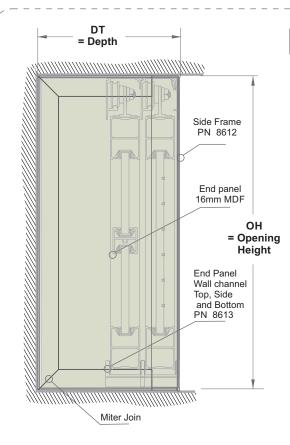


Typical Horizontal Cross Section Triple Track - <u>Under Jamb Mount</u>

TRIPLE TRACK, THREE DOORS - WIDTH CUTTING FORMULA

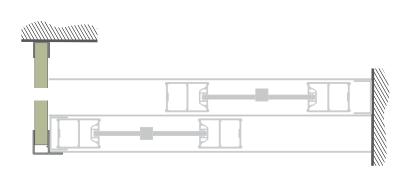
	WIDTHS	Part	Formula in mm
1	Top Track	8228	OW
2	Bottom Track	3527	OW
3	Single Door, Width = DW		OW / 3 + 33 (= DW)
4	Top, Bottom Rail	3516	DW - 98
5	Infill Gasket	W51, W55	DW - 98
6	Infills, 4mm - 10mm Glass, MDF, Meltica, Gib	NA	DW - 82
7	Infills, 18mm Meltica (no Gasket)	NA	DW - 52
8	Door, Mid Rail	3522	DW - 98

Note: Mirror, Glass panel size imitations. Refer to page 15



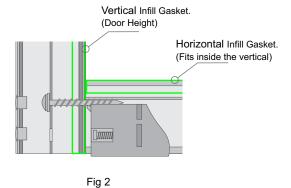
END PANELS, CUTTING FORMULA

	ITEM	PART	Formula in mm
1	Side Frame - Height	8612	ОН
2	Wall Channel - Height (Miter ends)	8613	ОН
3	Wall Channel - Depth (1 x Miter end)	8613	DT- 28
4	Infill - 16mm MDF - Height	NA	OH - 4
5	Infill - 16mm MDF - Depth	NA	DT- 20

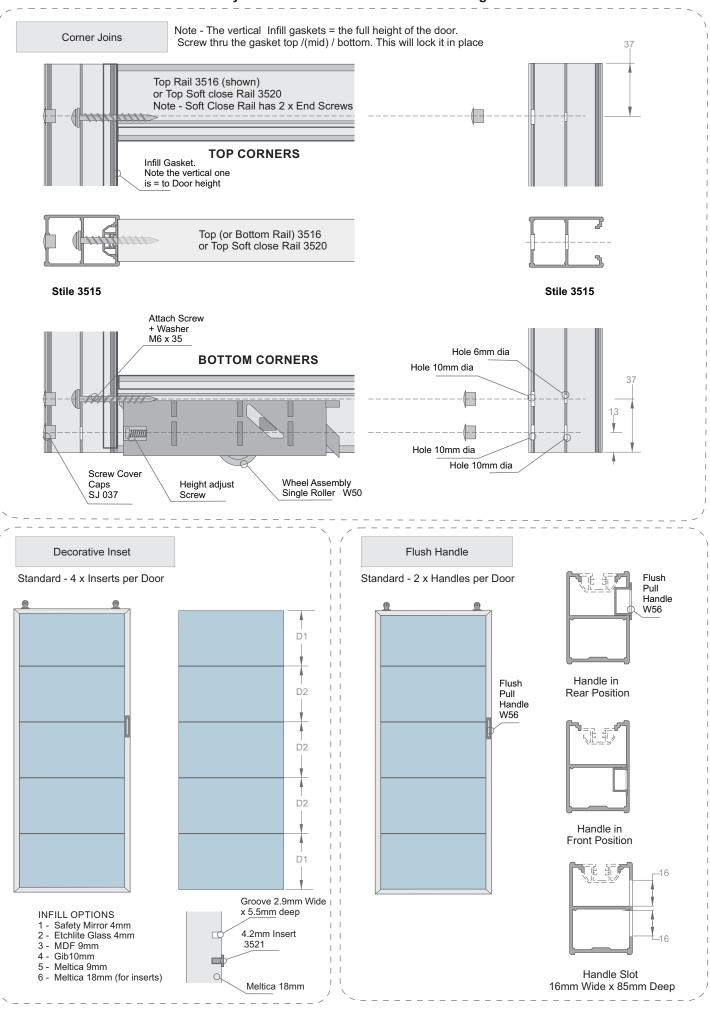


Manufacturing & Assembly procedure for Bottom Rolling Panels

- 1 Ensure work area is clean and free from dust. Hands must be clean and free from dirt / oils.
- 2 Inspect aluminium extrusions to ensure they are free of extrusion or surface finishing defects.
- 3 Cut aluminium extrusions to size following the cutting instructions.
- 4 Rout and insert handles in stiles and drill holes as per instructions.
- 5 Cut infill gasket to size and infill to size as per cutting formula.
 - Run the vertical Infill gasket to the Door height as in Fig 2 below.
 - Fit the infill gasket to the edges of the infill by raising the infill face upwards on blocks and gently tapping with a soft mallet. The Top/mid/bottom assembly screws will then lock it in place.
- 6 Centre and press on both stiles to infill ensuring that the handle is facing the best panel side.
- 7 Press on top rail to infilll.
- 8 Insert wheels into each end of the bottom rail.
- 9 Screw stiles/wheels on each side of the top and bottom rails.
- 10 Press top guides into the top rail carefully by hand (do not use a mallet).
- 11 Clean off all fingermarks, leave site clean and tidy.



Juralco 350 Systems - Bottom Roller Door Machining Details



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