JURALCO 4200 SERIES
WARDROBE AND DOOR SYSTEM

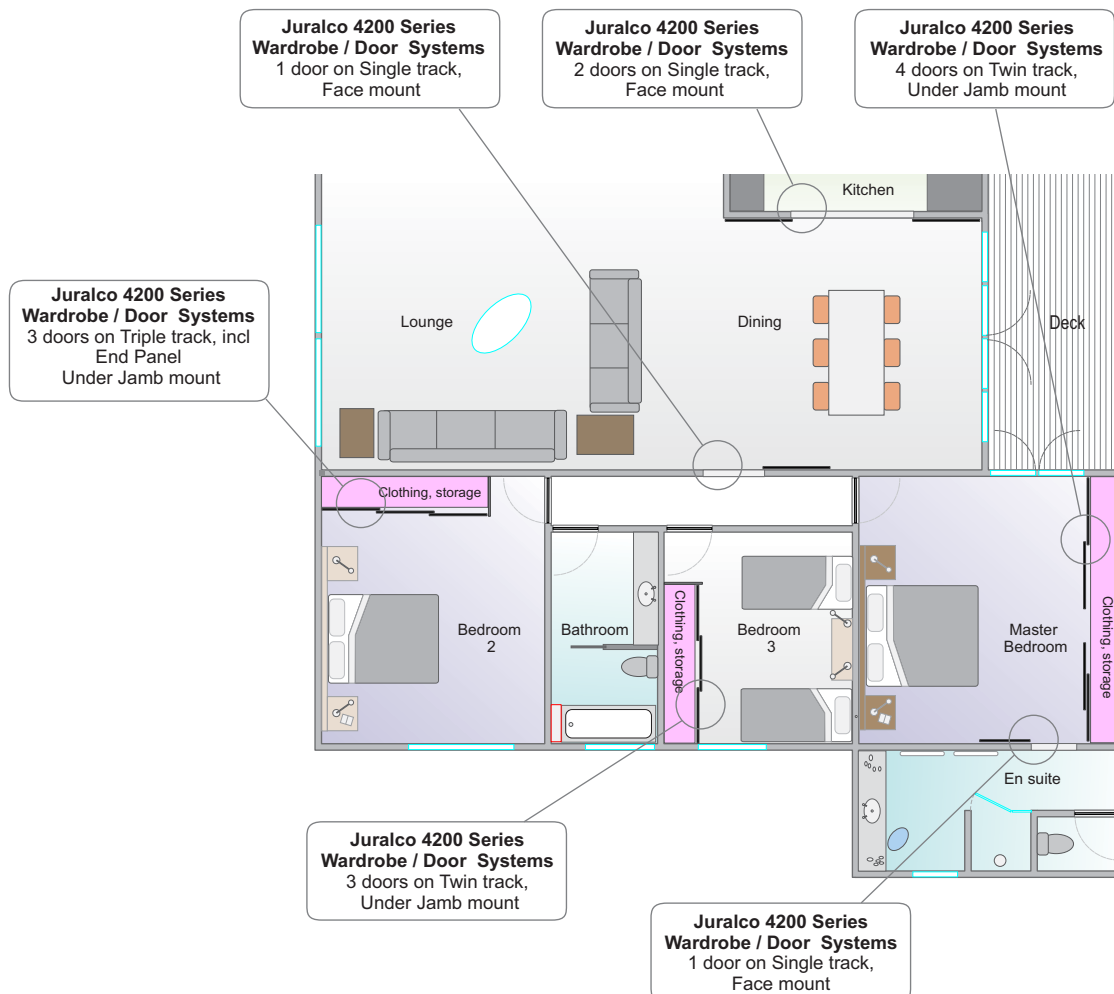# Juralco 4200 Series Wardrobe and Door Systems

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.

The 4200 Series is a modern, compact, bottom rolling wardrobe and internal door system designed to maximise access to storage space especially where triple door applications are preferred. Meltica or Seratone infill can be combined with mid rails to produce modern, attractive door panels. Traditional infill such as painted Gib-Board or safety Mirror can be used to blend with room décor. Doors frames can be custom-made in a variety of powder-coat or anodised colours.

This Guide is intended for use by Architects, Specifiers and Fabricators
Pages 2-3 cover areas of general interest. Pages 4 onwards are intended for Fabricators

Shown below are some typical 4200 system Door solutions for this family house .

Juralco 4200 Series Wardrobe / Door Systems
1 door on Single track, Face mount

Juralco 4200 Series Wardrobe / Door Systems
2 doors on Single track, Face mount

Juralco 4200 Series Wardrobe / Door Systems
4 doors on Twin track, Under Jamb mount

Juralco 4200 Series Wardrobe / Door Systems
3 doors on Triple track, incl End Panel Under Jamb mount

Juralco 4200 Series Wardrobe / Door Systems
3 doors on Twin track, Under Jamb mount

Juralco 4200 Series Wardrobe / Door Systems
1 door on Single track, Face mount

Kitchen

Lounge

Dining

Deck

Clothing, storage

Bedroom 2

Bathroom

Clothing, storage

Bedroom 3

Master Bedroom

Clothing, storage

En suite

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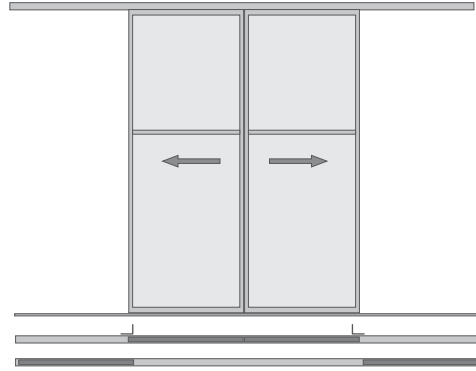
Juralco 4200 Wardrobe and Door Systems - Typical Layouts
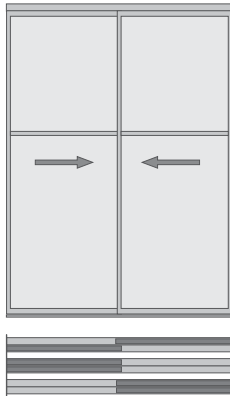
One Panel on Single Track (Face Mount)
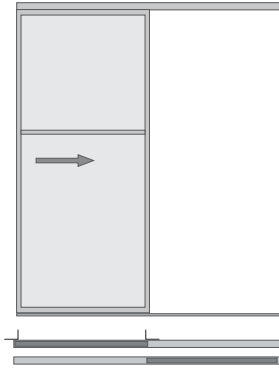
For openings up to
about 1100mm wide
- gives 100% max opening

Two Panels on Single Track (Face mount)

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

Two Panels on Twin Track (between Jamb mount)

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

Four Panels on Twin Track (between Jamb mount)

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

Three Panels on Triple Track (between Jamb mount)

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

General Description

- Door Panels max overall height (4215 stile) 2400mm,
  (4212 Heavy Duty Stile) 2700mm, max overall width 1200mm
- Top Track Install - normally Reveal mounted.
  Single Track may be Face mounted.
- Bottom Track installs direct to Floor on a Packer.
- Aluminium Extrusions - A range of standard
  and custom powder-coat and anodised finishes .Contact Juralco.
- Compact Tracking System Single, Double & Triple Tracks.
  Triple Track fits within a 90mm Jamb.
- Infill Panels - Panel board, Mirror and Gib infills
  up to 10mm in thickness. Grooved Aluminium Panel.
- Mid rails - 30mm Flush and 30mm Negative detail Mid Rails available.
- Handles - incorporated in stile extrusion.
- Stile Infill Buffer - Wide range of colour co-ordinated colours.
- Adjustable Bottom Rollers - Concealed Convex Nylon Rollers.
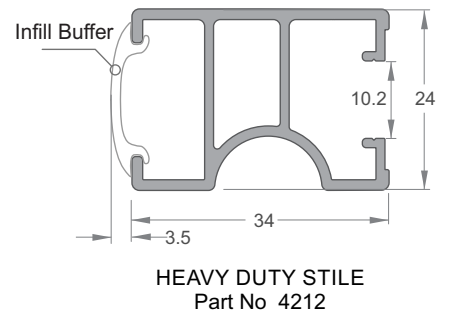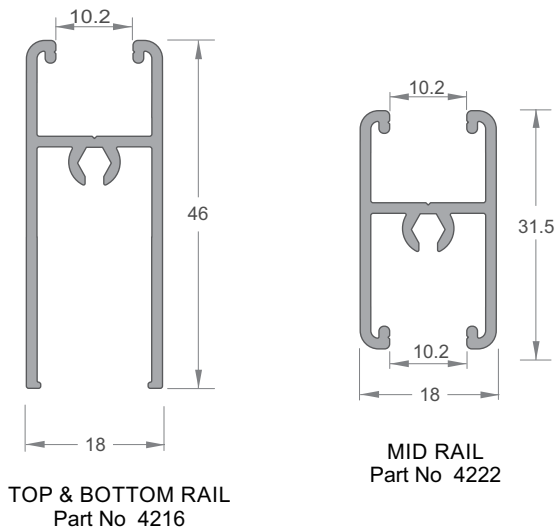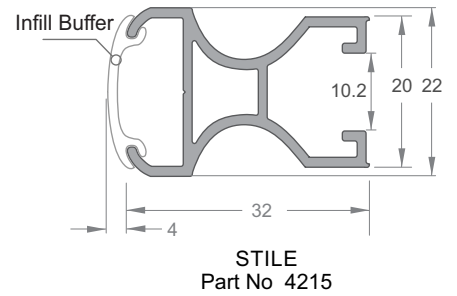- Weight - up to 50kg Per Panel.
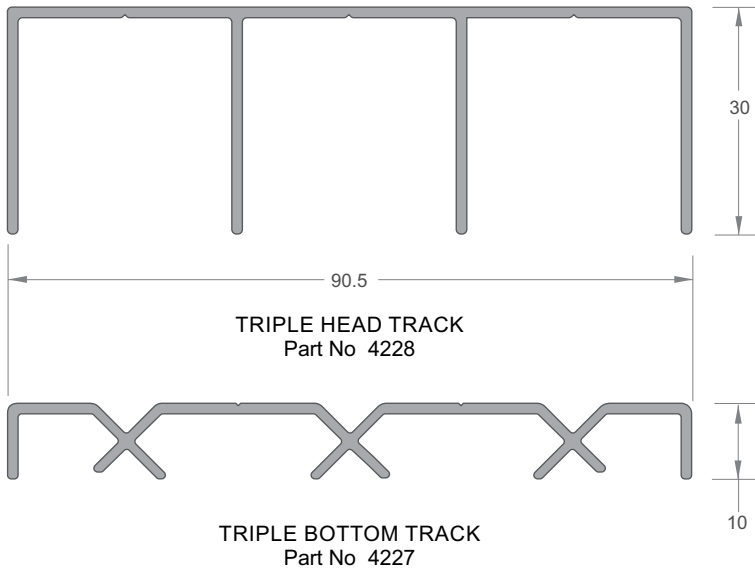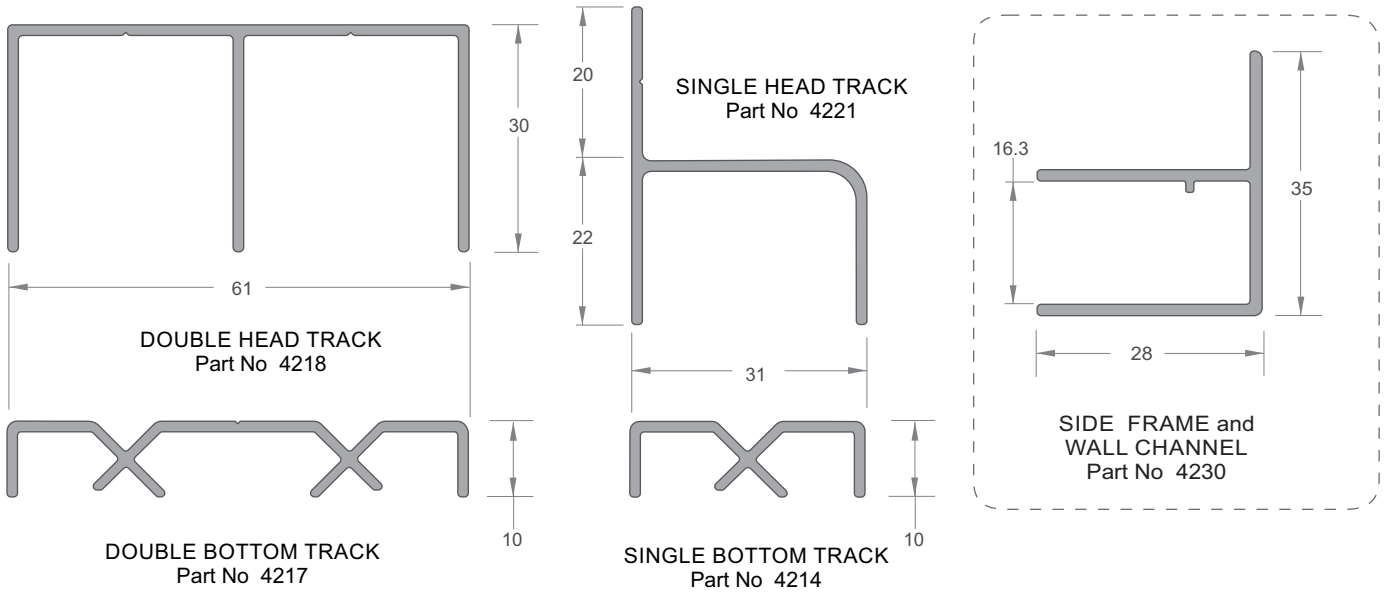- Quiet Smooth Operation.

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 2.0m^2. 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 0.5m^2 per panel

Juralco 4200 Wardrobe and Door Systems - Extrusions

DOUBLE HEAD TRACK
Part No 4218

30
61

SINGLE HEAD TRACK
Part No 4221

20
22
31

SIDE FRAME and WALL CHANNEL
Part No 4230

16.3
35
28

DOUBLE BOTTOM TRACK
Part No 4217

10

SINGLE BOTTOM TRACK
Part No 4214

10

TRIPLE HEAD TRACK
Part No 4228

30
90.5

TRIPLE BOTTOM TRACK
Part No 4227

10

STILE
Part No 4215

Infill Buffer
10.2
20 22
32
4

TOP & BOTTOM RAIL
Part No 4216

10.2
46
18

MID RAIL
Part No 4222

10.2
31.5
10.2
18

HEAVY DUTY STILE
Part No 4212

Infill Buffer
10.2
24
34
3.5

Glass Gasket 4mm
Part No D04
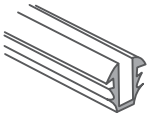
1mm Glazing Wedge
Part No D13

Glazing Wedges
4mm Orange, 5.5mm Green

Head Channel Spacer
Part No D14

Infill Buffer
Part No D02

Door Stop
Part No W09

31mm

42mm

For Single Track

Fastener No 8 x 35
Pan Head

Wardrobe Door Wheel
Part No D15

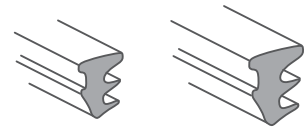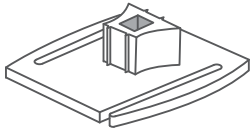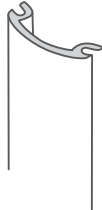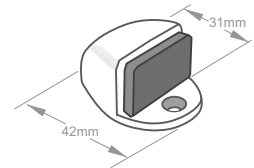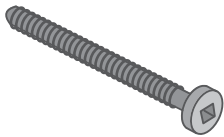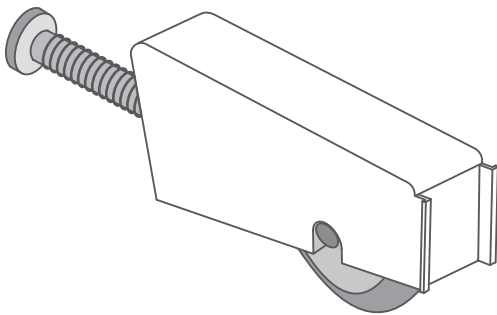# Juralco 4200 Wardrobe and Door Systems - Typical Sections and Features

Typical Vertical Sections

Stile 4215 for Doors up to 2400mm high, Heavy Duty Stile 42123 for Doors up to 2700mm high

Screw attach

Single Head Track PN 4221

1mm Glazing Wedge PN D13

Infill Panel 9mm Meltica

Single Track PN 4214

Packer

Carpet

Screw and Glue Attach

Typical Vertical Cross Section
Single Track, Face Mount

Double Head Track PN 4218

Screw attach

Head Channel Spacer PN D14

Top, Bottom Rail PN 4216

Infill Panel 10mm Gib

Optional Mid Rail PN 4222 or 4223

Stile PN 4215 or 4212

Double Track PN 4217

Packer

Carpet

Screw and Glue Attach

Typical Vertical Cross Section
Twin Track, Under Jamb Mount

Triple Head Track PN 4228

Screw attach

Glass Gasket PN D04

Infill Panel 4mm Mirror Safety Glass

Triple Track PN 4227

Packer

Carpet

Screw and Glue Attach

Typical Vertical Cross Section
Three Track, Under Jamb Mount

Typical Horizontal Sections

Optional End Panel(s)

Wall channel PN 4230

End panel 16mm MDF

Side Frame PN 4230

Infill Buffer PN D02

Stile PN 4215, 4212

**Double and Triple Track Installation can be
1 - Between walls
2 - Between 1 x Wall and 1 x End panel
3 - Between 2 x End panels**

Typical Horizontal Cross Section - Twin Track Showing Optional End Panel

**Single Track Installation can only be
Face mounted to a Wall**

Typical Horizontal Cross Section Single Track - Face Mount
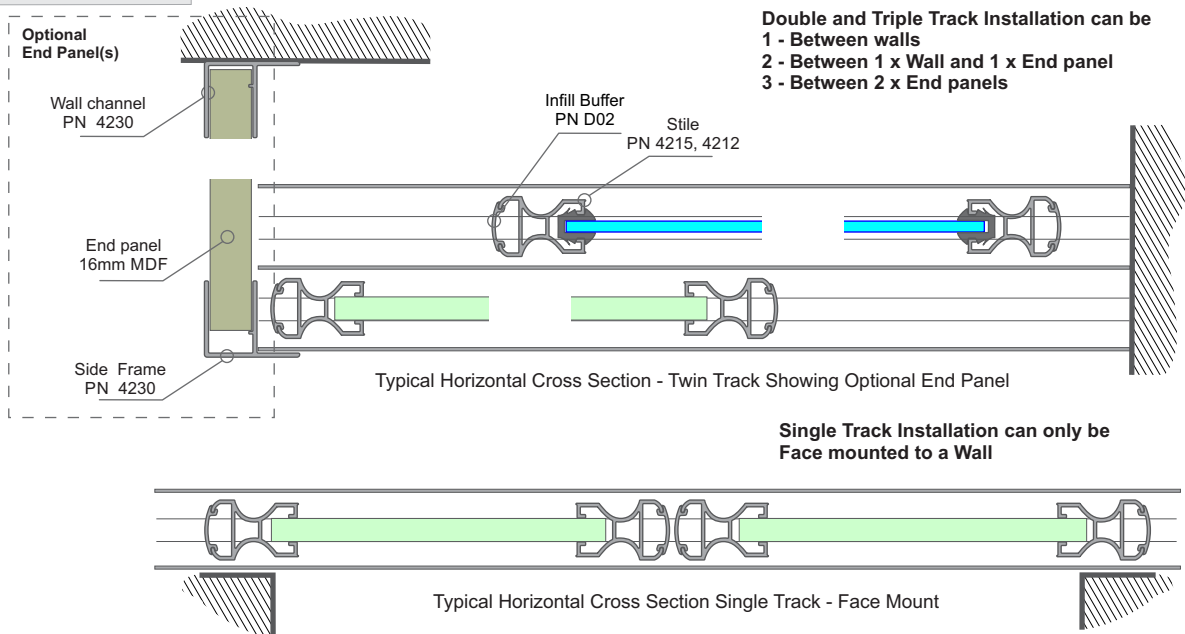
Vertical Infill Cutting Allowances

Infill MDF, Meltica, Gib Seratone, Alumimium Infill

Infill 4mm Safety Glass, Mirror + DO4 Glass Gasket

Stile 4215

Door Height

38
33
46

TOP & BOTTOM RAIL
Part No 4216

8
4
4
8

MID RAIL
Part No 4222

8
4
4
8

NEGATIVE DETAIL
MID RAIL
Part No 4223
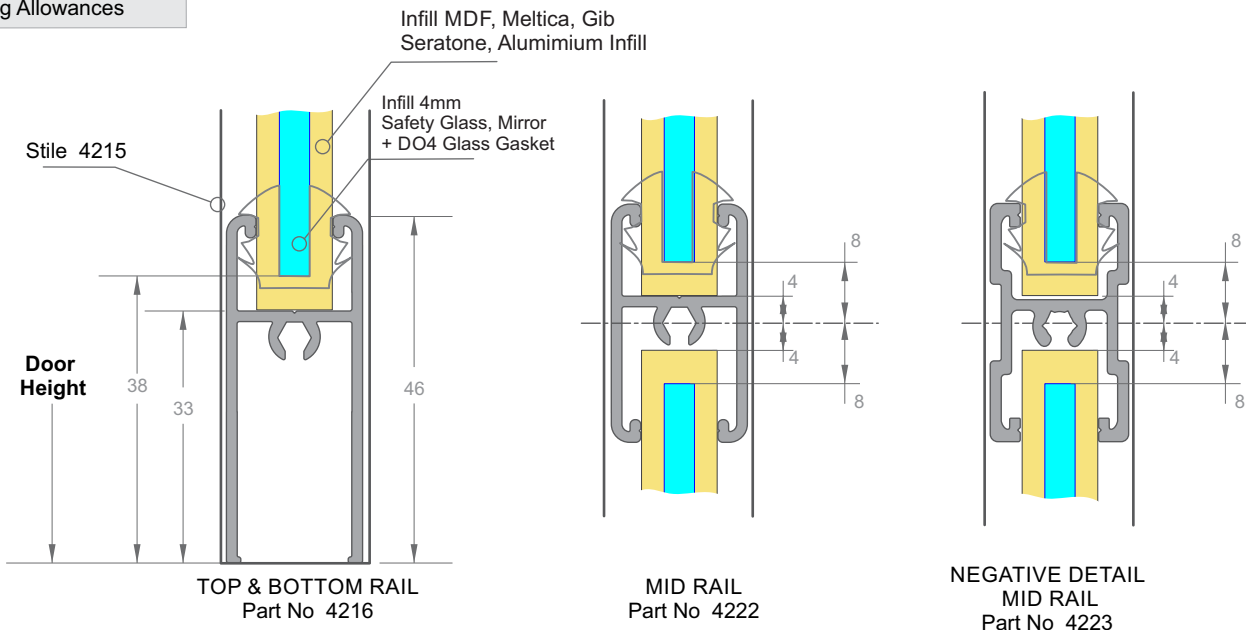
Horizontal Infill Cutting Allowances

Stile 4215 for Doors up to 2400mm high, Heavy Duty Stile 4212 for Doors up to 2700mm high

Door Width

36
32
4
25
28

Top & Bottom Rails
4216

STILE Part No 4215
and
INFILL BUFFER Part No D02

Door Width

37.5
33.5
4
26
29

Top & Bottom Rails
4216

HEAVY DUTY
STILE Part No 4212
and
INFILL BUFFER Part No D02
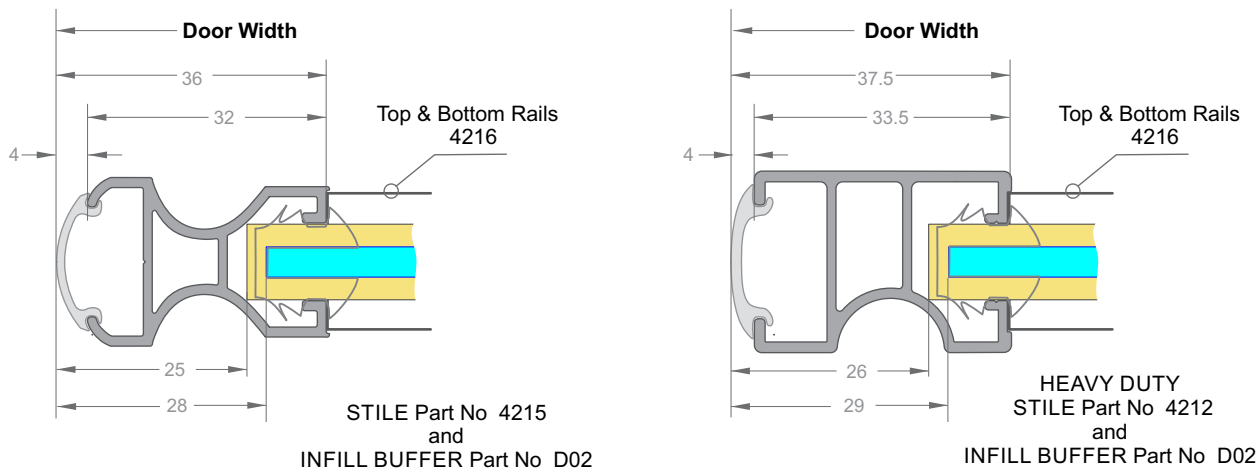
Stile and Infill Buffer Overlaps
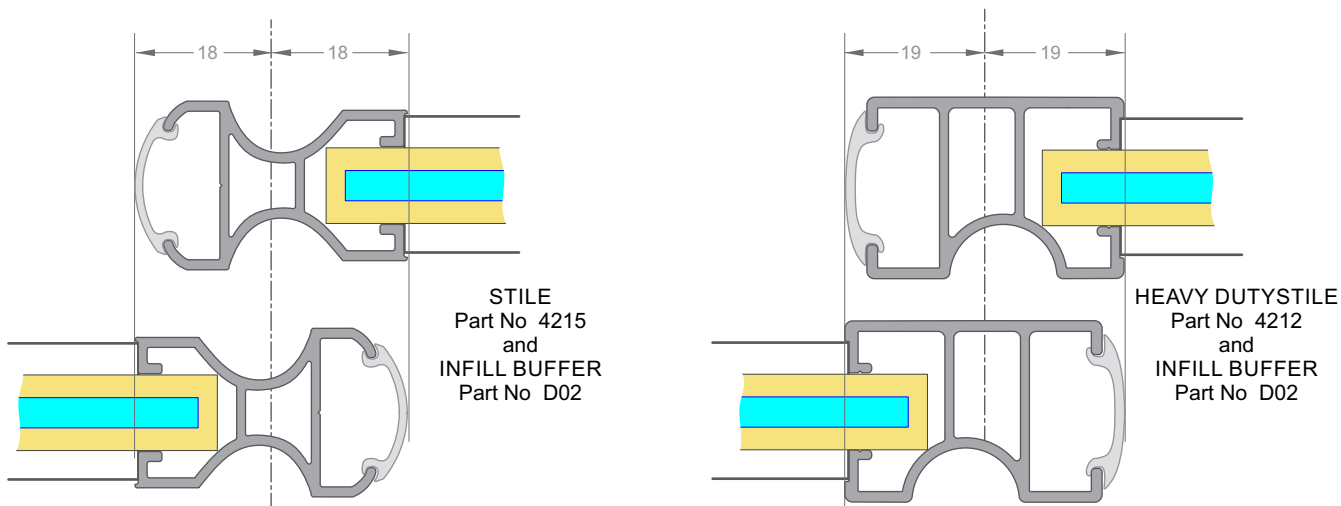
18
18

STILE
Part No 4215
and
INFILL BUFFER
Part No D02

19
19

HEAVY DUTYSTILE
Part No 4212
and
INFILL BUFFER
Part No D02

Typical Vertical Cross Section Single Track, Face Mount

Vertical Cross Section Double and Triple Track

Infill panel allowances when using a Mid Rail
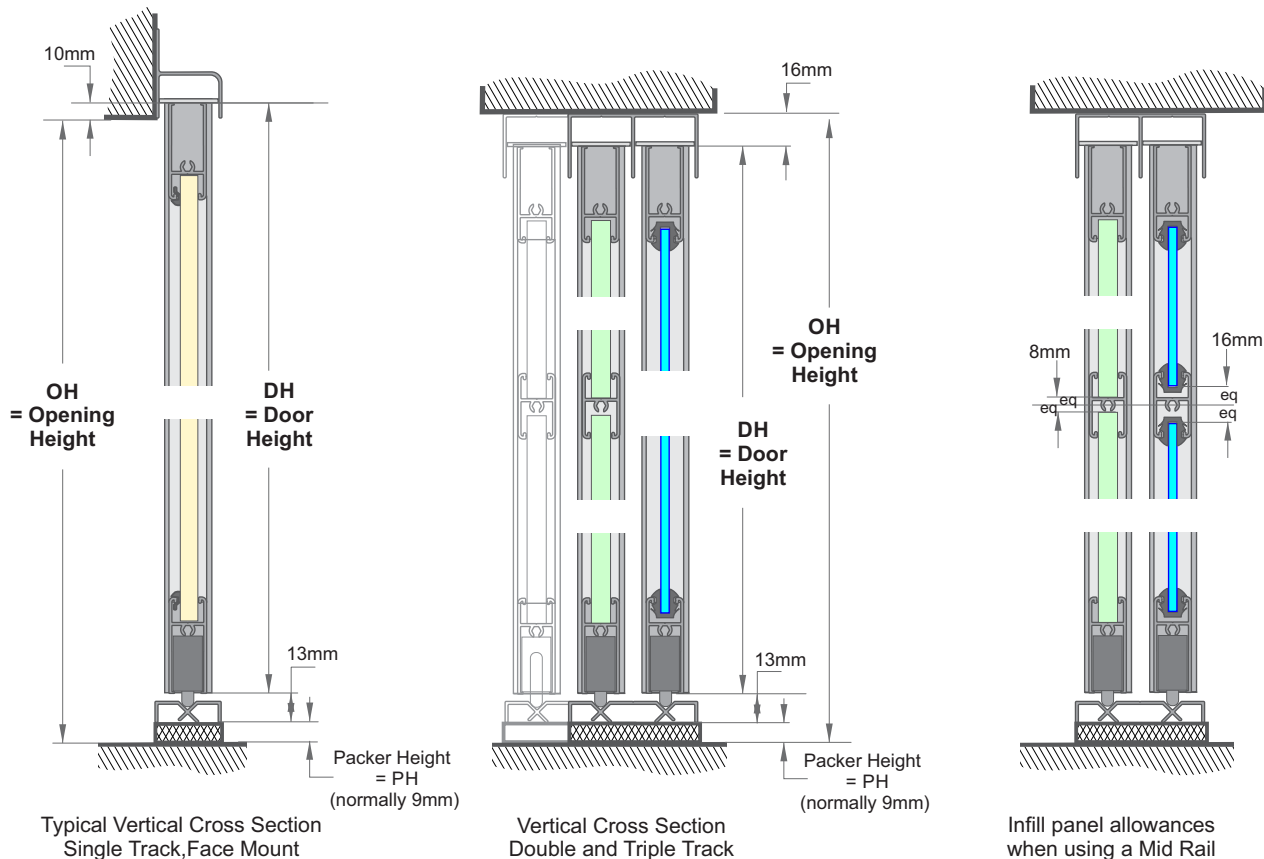
Stile 4215 for Doors up to 2400mm high, Heavy Duty Stile 4212 for Doors up to 2700mm high

	ALL DOORS - HEIGHT CUTTING FORMULA		

	ALL HEIGHTS		
	DOOR HEIGHTS - FACE MOUNT	**Part**	**Formula in mm**
1	**Single Door, Overall Height = DH**		**OH - PH - 3 (= DH)**

	STILE, INFILL HEIGHTS		
1	Door, Stiles. Normal or Heavy Duty	4215, 4212	**DH**
2	Door, Infill Buffer	D02	**DH**
3	Infill, MDF, Meltica, Gib, Grooved Aluminium Panel	NA	**DH - 66**
4	Glazing Wedges (1mm - D13 , Green, Orange)	←	**DH - 66**
5	Infill, 4mm Mirror, Safety Glass	NA	**DH - 76**
6	Glass Gasket	D04	**DH - 76**

	DOOR HEIGHTS - UNDER JAMB MOUNT	**Part**	**Formula in mm**
1	**Single Door, Overall Height = DH**		**OH - PH - 29 (= DH)**

	STILE, INFILL HEIGHTS		
1	Door, Stiles. Normal or Heavy Duty	4215, 4212	**DH**
2	Door, Infill Buffer	D02	**DH**
3	Infill, MDF, Meltica, Gib, Grooved Aluminium Panel	NA	**DH - 66**
4	Glazing Wedges (1mm - D13, Green, Orange)	←	**DH - 66**
5	Infill, 4mm Mirror, Safety Glass	NA	**DH - 76**
6	Glass Gasket	D04	**DH - 76**

Note : Mirror, Glass panel size imitations . Refer to page 3

CLOSED

OPEN

25mm Overlap

DW = Door Width

(includes buffers @ 8mm ea)

OW = Opening Width

Stop Length
(31mm for PN W09)
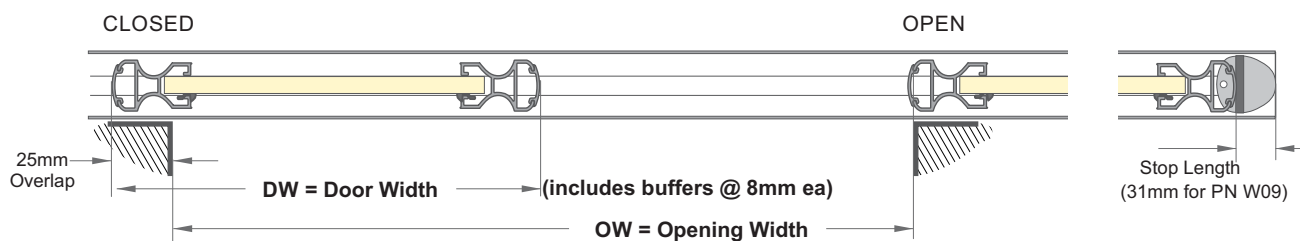
Typical Horizontal Cross Section Single Track - <u>Face Mount</u>

SINGLE TRACK, ONE, TWO DOORS, CUTTING FORMULA			

	DOOR WIDTHS - ONE DOOR	Part	Formula in mm
1	Single Head Track	4221	**2 x OW + 141**
2	Single Bottom Track	4214	**2 x OW + 141**
3	**Single Door, Overall Width = DW**		**OW + 50 (= DW)**

	DOOR WIDTHS - TWO DOORS		
1	Single Head Track	4221	**2 x OW + 117**
2	Single Bottom Track	4214	**2 x OW + 117**
3	**Single Door, Overall Width = DW**		**OW/2 + 25 (= DW)**

	RAIL, INFILL WIDTHS		**Using Stile 4215**	**Using HD Stile 4212**
1	Door , Top, Bottom Rail	4216	**DW - 72**	**DW - 75**
2	Infill, MDF, Meltica, Gib, Grooved Aluminium Panel	NA	**DW - 50**	**DW - 52**
3	Glazing Wedges (1mm - D13 , Green, Orange)	←	**DW - 50**	**DW - 52**
4	Infill, 4mm Mirror, Safety Glass	NA	**DW - 56**	**DW - 58**
5	Glass Gasket	D04	**DW - 56**	**DW - 58**
6	Door ,Mid Rail	4222	**DW - 72**	**DW - 75**

Note : Mirror, Glass panel size imitations . Refer to page 3

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

DOUBLE TRACK, TWO DOORS, CUTTING FORMULA

	DOOR WIDTHS	Part	Formula in mm	
1	Double Head Track	4218	**OW**	
2	Double Bottom Track	4217	**OW**	
3	**Single Door - Overall Width = DW**		**OW / 2 + 18 (= DW)**	

	RAIL, INFILL WIDTHS		Using Stile 4215	Using HD Stile 4212
1	Door , Top, Bottom Rail	4216	**DW - 72**	**DW - 75**
2	Infill, MDF, Meltica, Gib, Grooved Aluminium Panel	NA	**DW - 50**	**DW - 52**
3	Glazing Wedges (1mm - D13 , Green, Orange)	←	**DW - 50**	**DW - 52**
4	Infill, 4mm Mirror, Safety Glass	NA	**DW - 56**	**DW - 58**
5	Glass Gasket	D04	**DW - 56**	**DW - 58**
6	Door ,Mid Rail	4222	**DW - 72**	**DW - 75**

Note : Mirror, Glass panel size imitations . Refer to page 3
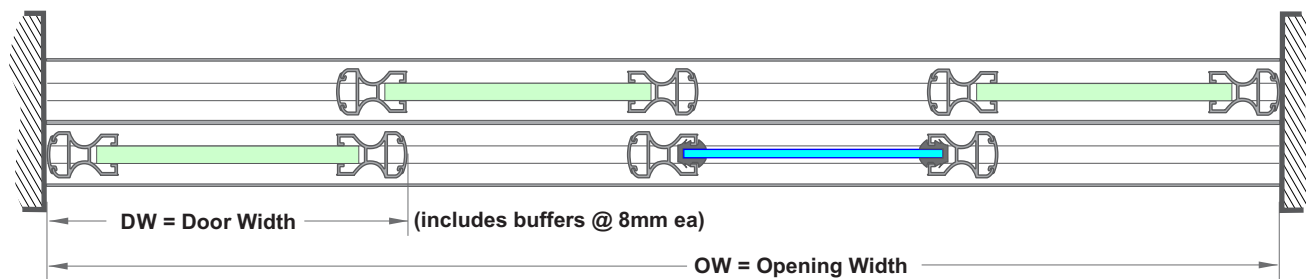
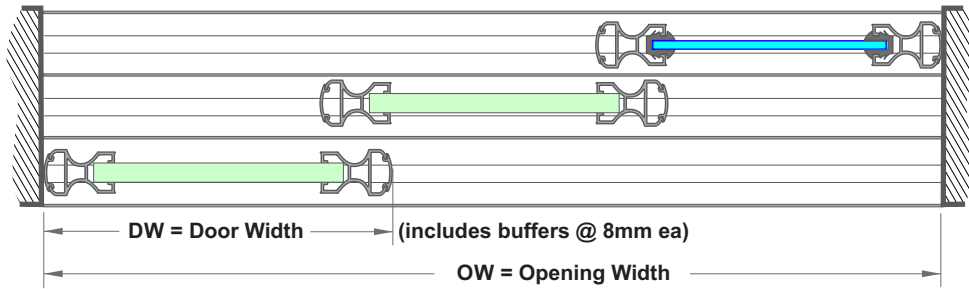Typical Horizontal Cross Section Double Track - <u>Under Jamb Mount</u>

DOUBLE TRACK, FOUR DOORS, CUTTING FORMULA

	DOOR WIDTHS	Part	Formula in mm	
1	Double Head Track	4218	**OW**	
2	Double Bottom Track	4217	**OW**	
3	**Single Door , Overall Width = DW**		**OW / 4 + 27 (= DW)**	

	RAIL, INFILL WIDTHS		Using Stile 4215	Using HD Stile 4212
1	Door , Top, Bottom Rail	4216	**DW - 72**	**DW - 75**
2	Infill, MDF, Meltica, Gib, Grooved Aluminium Panel	NA	**DW - 50**	**DW - 52**
3	Glazing Wedges (1mm - D13 , Green, Orange)	←	**DW - 50**	**DW - 52**
4	Infill, 4mm Mirror, Safety Glass	NA	**DW - 56**	**DW - 58**
5	Glass Gasket	D04	**DW - 56**	**DW - 58**
6	Door ,Mid Rail	4222	**DW - 72**	**DW - 75**

Note : Mirror, Glass panel size imitations . Refer to page 3

DW = Door Width (includes buffers @ 8mm ea)

OW = Opening Width

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

	TRIPLE TRACK, THREE DOORS, CUTTING FORMULA		

	DOOR WIDTHS	**Part**	**Formula in mm**
1	Triple Head Track	4228	**OW**
2	Triple BottomTrack	4227	**OW**
3	**Single Door , Overall Width = DW**		**OW / 3 + 24 (= DW)**

	RAIL, INFILL WIDTHS		**Using Stile 4215**	**Using HD Stile 4212**
1	Door , Top, Bottom Rail	4216	**DW - 72**	**DW - 75**
2	Infill, MDF, Meltica, Gib, Grooved Aluminium Panel	←	**DW - 50**	**DW - 52**
3	Glazing Wedges (1mm - D13 , Green, Orange)	NA	**DW - 50**	**DW - 52**
4	Infill, 4mm Mirror, Safety Glass	NA	**DW - 56**	**DW - 58**
5	Glass Gasket	D04	**DW - 56**	**DW - 58**
6	Door ,Mid Rail	4222	**DW - 72**	**DW - 75**

Note : Mirror, Glass panel size imitations . Refer to page 3

DT = Depth

Side Frame
PN 8612

End panel
16mm MDF

OH = Opening Height

End Panel
Wall channel
Top, Side
and Bottom
PN 8613

Miter Join
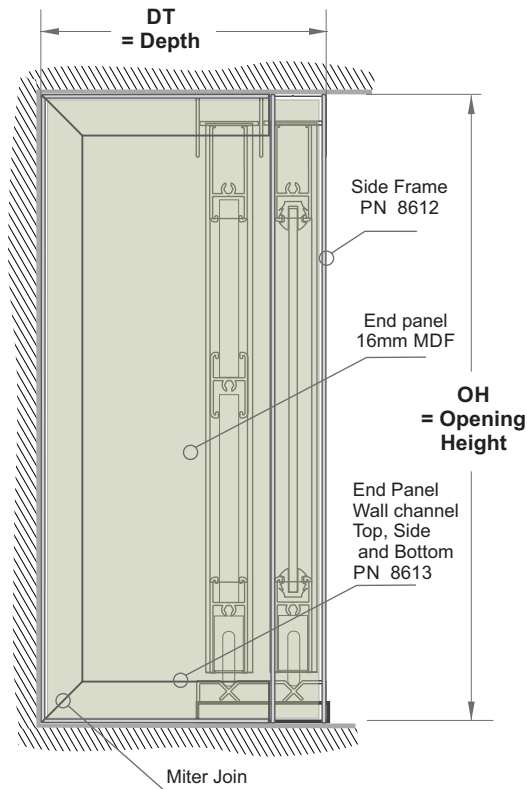
	END PANELS, CUTTING FORMULA		

	END PANELS		
	ITEM	**PART**	**Formula in mm**
1	Side Frame - Height	4230	**OH**
2	Wall Channel - Height (Miter ends)	4230	**OH**
3	Wall Channel - Depth (1 x Miter end)	4230	**DT- 28**
4	Infill - 16mm MDF - Height	NA	**OH - 4**
5	Infill - 16mm MDF - Depth	NA	**DT- 20**

Head Track Spacer PNo D14

Hole 4.5mm clearance

Top Rail PNo 4216

30mm

Screw No 8 x 35 Pan

Hole 4.5mm clearance

Mid Rail PNo 4222

Optional mid rail

Hole 4.5mm clearance

Stile PNo 4215

Wardrobe Door Wheel PNo D15

Hole 6.0mm clearance

Bottom Rail PNo 4216

22mm

8mm

Infill Buffer PNo D02

or Heavy DutyStile PNo 4212

**Manufacturing,
Assembly and Installation Procedures**
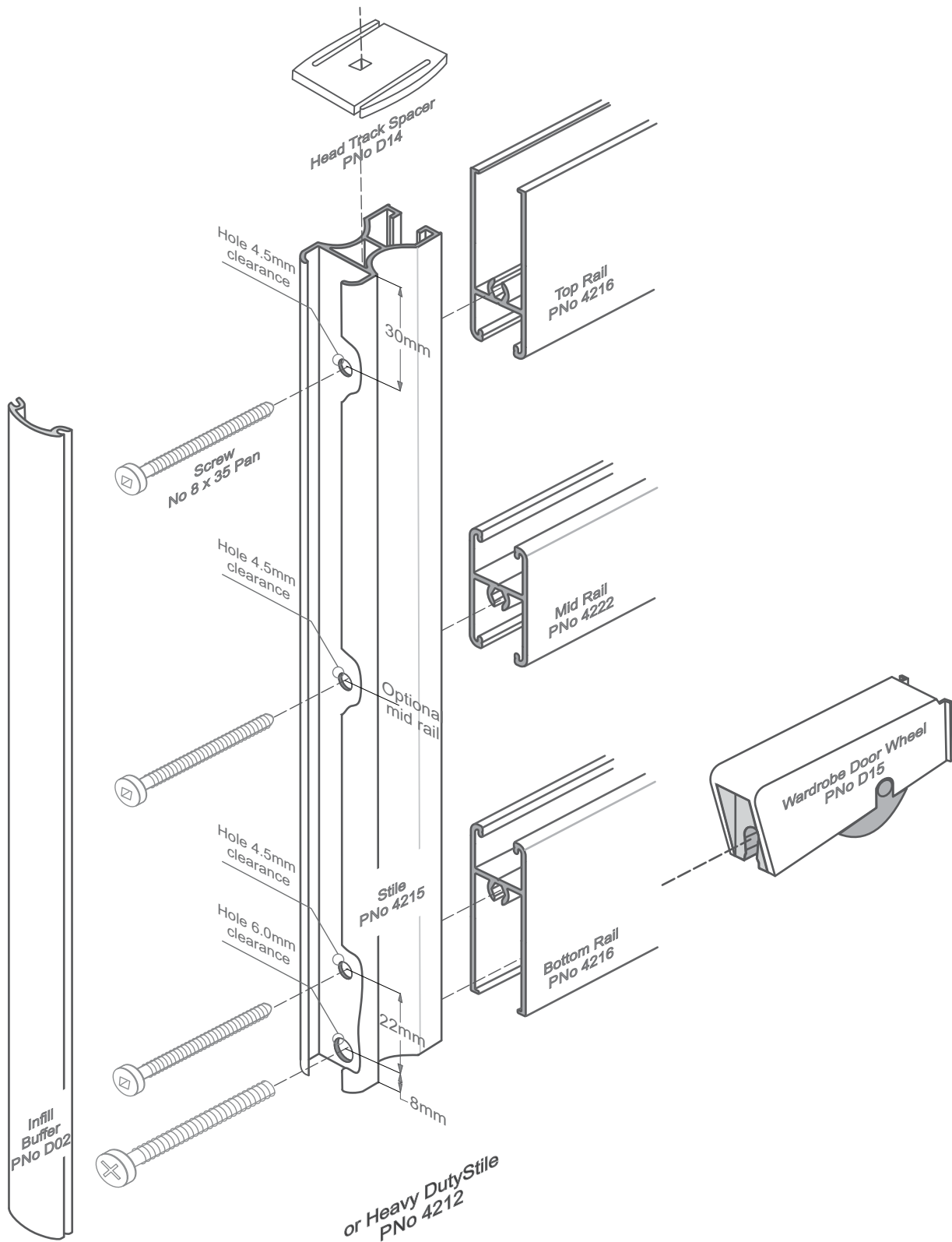
Manufacturing

1 - Hands must be clean and free from oils and grease.
2 - Inspect aluminium extrusions to ensure they are free of extrusion or surface finishing defects
3 - Cut aluminium extrusions to size as per cutting formula schedule.
4 - Drill stiles for the rails and wheels - 4.5mm and 6mm clearance holes
5 - Cut infill to size as per cutting formula.

Assembly

1 - Ensure work area is clean and free from chips and dust. Hands must be clean and free from oils and or grease.
2 - Fit D15 wheels into bottom rail at each end (screw removed)
3 - Infills

 Mirror- 4mm - Place on 30mm blocks, run the D04 Glass Gasket all the way around joining at the centre top.
   Do not overstretch the gasket as it may pull away at the join. Assemble Stiles to each side

 Seratone - 4.75mm. Place on 30mm blocks. Assemble Stiles to each side. Run Wedge/Green around all backside of panel- 6mm .
 Place on 30mm blocks. Assemble Stiles to each side. run Wedge/Orange around all backside of panel
 Meltica - 9mm - Place on 30mm blocks. Assemble Stiles to each side. Insert D13 Wedges (200mm strips at
    400mm CL) to backside of panel
 Gib - 10mm- Place on 30mm blocks. Assemble Stiles to each side. Fits neatly in extrusion gap.
Seal back of Gib with RTV
4 - Center and press on both Stiles evenly
5 - Press on both Top and Bottom Rails.
6 - Screw Top and Bottom Rails into place, ensuring all joints are clean and even. Attach Screw to D15 Wheel
7 - Attach selected D02 Rubber Buffers to Stiles
8 - Clean off all fingermarks, pack carefully

Installation

1 - Screw Head Track firmly in place
2 - Plumb down to Track, then panel bond/screw it into position
3 - Attach D14 Head Channel Spacers in position at top of door stiles
4 - Lift doors up into Head Track, then drop Door/Wheels onto bottom Track
5 - True up doors by adjusting D15 Wheel height (Remove D02 Rubber Buffer if necessary)
6 - Clean off all fingermarks