PLATEFIX PF150 SYSTEM
Balustrade Stiffener Brackets

STRAIGHT BRACKET
13.5–15.5mm GLASS
300149

CORNER BRACKET
13.5–15.5mm GLASS
300151

WALL BRACKET
13.5–15.5mm GLASS
300153

STRAIGHT BRACKET
17.2 – 21.52mm GLASS
300150

CORNER BRACKET
17.2 – 21.52mm GLASS
300152

WALL BRACKET
17.2 – 21.52mm GLASS
300154
PLATEFIX PF150 RAIL & BRACKETS
Edgetec® 220 Link Rail

INSTALLATION NOTES:
1. Cut short lengths of gasket (nom 50mm) and place at approximately 700mm centres.
2. Cut / adjust interlinking rail to correct dimensions and test in position.
3. Remove all parts from glass barrier and install full cut lengths of gasket to top edge of glass barrier.
4. Assemble top rail, joiners and suitable end plates.
5. Place blobs of V60 silicone in every gasket hole.
6. Place top rail extrusion, joiners and end plates in position on glass barrier, clipping firmly to gasket.
7. Tape assembled components down to glass barrier and wait 24hrs to fully bond.
8. Clean up any excess silicone.

Note: rail ends must be attached to structure or structural post. Extrusion joins must have a suitable joiner plate.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
PLATEFIX PF150 RAIL & BRACKETS
Edgetec® 220 Link Rail

Joiners: (After cutting extrusions to length)
- With Joiner in place, spot drill from below for position
- Drill out to joiner to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive Screw (301993)

End Plates: (After cutting extrusions to length)
- With End Plate in place, spot drill from below for position
- Drill out to SS tab to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive Screw (301993)
- End Plate must be securely attached to Post or structure.

End Plate
Tabs all 22.5 x 4mm SS.

JOINERS NOM. 22.5 X 5MM ALUMINIUM

Edgetec® 220 Rail Inline Joiner (#300847)
80x22.5x5mm

Edgetec® 220 Rail Vertical Adjustable Joiner (#301990)

Edgetec® 220 Rail Horizontal Fixed Joiner (#301986)

Edgetec® 220 Rail Horizontal Adjustable Joiner (#301988)

Edgetec® 220 Rail Wall Bracket Post End* (#301992)
60x46mm

Edgetec® 220 Rail Wall Bracket Left Hand (#301004)
120x45mm

Edgetec® 220 Rail Wall Bracket Right Hand (#301005)
120x45mm

Edgetec® 220 Rail Wall Bracket Post End (#301149)
100x45mm

* Suits AP65 Aluminium Post

Holes for Silicone

Tabs all 22.5 x 4mm. Front faces all 3mm.

IMPORTANT NOTE: Conforming to NZS 4223.3:2016 and Building Code Clause B1/AS1 Cl.73.1
PLATEFIX PF150 RAIL & BRACKETS

S25 Link Rail

S25-01
S25 RAIL - TYPICAL INSTALLATIONS

NOTES:
1. Interlinking rail details are only to be used on metro performance glass. Cantilevered glass balustrades.
2. Prepare for and apply DC795 & DC121 structural silicone in accordance with dow. Corning preparation and installation instructions.
3. Interlinking rail splice & corner connections are shown on drawings S25-02 & S25-03
4. Interlinking rail end connection brackets & attachment details are shown on drawings S25-04 to S25-08.
5. All screws to be stainless steel with a minimum ultimate shear strength of 3.5kN (per Screw).
7. Refer to warranty & maintenance pages for periodic inspection, cleaning & maintenance requirements.

IMPORTANT NOTE: Conforming to NZS 4223.3:2016 and Building Code Clause B1/AS1 Cl7.3.1
PLATEFIX PF150 RAIL & BRACKETS

S25 Link Rail

S25-02
S25 RAIL - SPLICE CONNECTION DETAIL
All fixings to be stainless steel

S25 LINK RAIL SECTION
300738

S25 LINK RAIL JOINER
300864

S25 LINK RAIL - SPLICE CONNECTION ELEVATION

S25-03
S25 RAIL - 90° CORNER CONNECTION DETAIL
All fixings to be stainless steel

S25 LINK RAIL SECTION
300738

S25 LINK RAIL 90° CORNER
300861

S25 LINK RAIL - 90° CORNER CONNECTION ELEVATION

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
PLATEFIX PF150 RAIL & BRACKETS

S25 Link Rail

S25-04
S25 RAIL WALL BRACKET
All fixings to be stainless steel

S25 LINK RAIL WALL BRACKET
RIGHT HAND - 301946  LEFT HAND - 300148

S25 LINK RAIL WALL BRACKET
(RIGHT HAND - 301946)

S25 LINK RAIL WALL BRACKET
(LEFT HAND - 300148)

S25 LINK RAIL WALL BRACKET
(RIGHT HAND - 301946)

S25 LINK RAIL - END BRACKET SECTION

S25-05
S25 RAIL - END BRACKET CONCRETE WALL ATTACHMENT
All fixings to be stainless steel

NOTES:
1. Concrete wall is to be designed by project structural engineer for loads imposed by balustrade. ULS Point load, $n^* = 0.9 \text{kN}$ - inwards, outwards or down.
2. Concrete wall to be minimum 140mm thick.
3. Concrete wall must be reinforced & is to be designed & detailed in accordance with NZS3101.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
**PLATEFIX PF150 RAIL & BRACKETS**

**S25 Link Rail**

**S25-06**
**S25 RAIL - END BRACKET BLOCKWALL ATTACHMENT**
All fixings to be stainless steel

**NOTES:**
1. Blockwall is to be designed by Project structural engineer for loads imposed by Balustrade. ULS point load, \( n^* = 0.9kN \) - inwards, outwards or down.
2. Minimum blockwall thickness = 140mm.
3. Blockwall must be corefilled / Reinforced & is to be designed & detailed in Accordance with NZS4230 or NZS4229.
4. Minimum corefill concrete Strength = 17.5MPa.

**S25-07**
**S25 RAIL - END BRACKET WEATHERBOARD ATTACHMENT**
All fixings to be stainless steel

**NOTES:**
1. Timber stud wall is to be designed by project Structural engineer for loads imposed by balustrade. ULS Point load, \( n^* = 0.9kN \) - inwards, outwards or down.
2. Minimum stud size = 90x45.
3. Minimum timber grade = SG8
4. Timber stud wall to be Designed & detailed in accordance with NZS3603 or NZS3604.

**S25-08**
**S25 RAIL - END BRACKET STEEL POST ATTACHMENT**
All fixings to be stainless steel

**NOTES:**
1. Steel post is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, \( n^* = 0.9kN \) - inwards, outwards or down.
2. Building designer to ensure durability requirements of connection are met.
3. Minimum steel post wall thickness = 5mm.

**IMPORTANT NOTE:** Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

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PLATEFIX PF150 RAIL & BRACKETS

S40 Link Rail

S40-01
S40 RAIL - TYPICAL INSTALLATIONS

NOTES:
1. Interlinking rail details are only to be used on metro performance glass cantilevered glass balustrades.
2. Prepare for and apply DC795 & DC121 structural silicone in accordance with dow corning preparation and installation instructions.
3. Interlinking rail splice & corner connections are shown on drawings S40-02 & S40-03.
4. Interlinking rail end connection brackets & attachment details are shown on drawings S40-04 to S40-08.
5. All screws to be stainless steel with a minimum ultimate shear strength of 3.5kN (per screw).
7. Refer to warranty & maintenance pages for periodic inspection, cleaning & maintenance requirements.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
S40-02
S40 RAIL - SPLICE CONNECTION DETAIL
All fixings to be stainless steel

S40 LINK RAIL SECTION
300739

S40 LINK RAIL INLINE JOINER
300869

SECTION D-D

S40 LINK RAIL - SPLICE CONNECTION ELEVATION

S40-03
S40 RAIL - 90° CORNER CONNECTION DETAIL
All fixings to be stainless steel

S40 LINK RAIL SECTION
300739

S40 LINK RAIL 90° CORNER
300866

SECTION E-E

S40 LINK RAIL - 90° CORNER CONNECTION ELEVATION

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
PLATEFIX PF150 RAIL & BRACKETS

S40 Link Rail

S40-04
S40 RAIL WALL BRACKET
All fixings to be stainless steel

S40 Link Rail

S40-05
S40 RAIL - END BRACKET CONCRETE WALL ATTACHMENT
All fixings to be stainless steel

NOTES:
1. Concrete wall is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, n* = 0.9kN - inwards, outwards or down.
2. Concrete wall to be minimum 140mm thick.
3. Concrete wall must be reinforced and is to be designed & detailed in accordance with NZS3101.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
S40 Link Rail

S40-06
S40 RAIL - END BRACKET BLOCKWALL ATTACHMENT

All fixings to be stainless steel

**NOTES:**
1. Blockwall is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, \( n^* = 0.9 \text{kN} \) - inwards, outwards or down.
2. Minimum blockwall thickness = 140mm.
3. Blockwall must be corefilled / reinforced & is to be designed & detailed in accordance with NZS4230 or NZS4229.
4. Minimum corefill concrete strength = 17.5MPa.

S40-07
S40 RAIL - END BRACKET WEATHERBOARD ATTACHMENT

All fixings to be stainless steel

**NOTES:**
1. Timber stud wall is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, \( n^* = 0.9 \text{kN} \) - inwards, outwards or down.
2. Minimum stud size = 90x45.
3. Minimum timber grade = SG8
4. Timber stud wall to be designed & detailed in accordance with NZS3603 or NZS3604.

S40-08
S40 RAIL - END BRACKET STEEL POST ATTACHMENT

All fixings to be stainless steel

**NOTES:**
1. Steel post is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, \( n^* = 0.9 \text{kN} \) - inwards, outwards or down.
2. Building designer to ensure durability requirements of connection are met.
3. Minimum steel post wall thickness = 5mm.
PLATEFIX PF150 RAIL & BRACKETS

Hb50 Rail Brackets

HB50-R-90 HANDRAIL BRACKET
All fixings to be stainless steel

HDGEFE OR S40 RAIL (S40 SHOWN), ATTACHED TO HB50 BRACKET BY 2 off 6G x 1/4" ST SS SCREWS (MFG# 301993)

EDGETEC RAIL REQUIRES 1mm ISOLATING GASKET (ex 300613) BETWEEN BRACKET & RAIL

BR-20-M12 BUSH TO SUIT GLASS THICKNESS
Ø50 x 0.8mm BLACK FIBRE GASKET

BR-20-M10 BUSH TO SUIT GLASS THICKNESS
Ø50 x 6 x M10 DISC

GLASS BALLUSTRADE: 10 - 17.5mm THICKNESS

HB50-S-90 HANDRAIL BRACKET
All fixings to be stainless steel

EDGETEC OR S40 RAIL (EDGETEC SHOWN), ATTACHED TO HB50 BRACKET BY 2 off 6G x 1/4" ST SS SCREWS (MFG# 301993)

EDGETEC RAIL REQUIRES 1mm ISOLATING GASKET (ex 300613) BETWEEN BRACKET & RAIL

BR-20-M12 BUSH TO SUIT GLASS THICKNESS
Ø50 x 10 x M10 STAINLESS STEEL STEPPED DISC FOR 12 - 17.5mm GLASS

BR-20-M10 BUSH TO SUIT GLASS THICKNESS
Ø50 x 6 x M10 DISC

GLASS BALLUSTRADE: 10 - 19.5mm THICKNESS

BR-20-M12 BUSH TO SUIT GLASS THICKNESS
Ø50 x 10 x M10 STAINLESS STEEL BUTTON FOR 10 - 12mm GLASS

BR-20-M10 BUSH TO SUIT GLASS THICKNESS
Ø50 x 10 x M10 STAINLESS STEEL BUTTON FOR 10 - 13.52mm GLASS

BR-20-M12 BUSH TO SUIT GLASS THICKNESS
Ø50 x 10 x M10 STAINLESS STEEL STEPPED DISC FOR 12 - 19.5mm GLASS

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1