POSIGLAZE RAIL & BRACKETS
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
POSIGLAZE 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
**POSIGLAZE RAIL & BRACKETS**

**Edgetec® 220 Link Rail**

**Edgetec® 220 Rail for 12mm & 15mm Glass**
- Full Length (5800mm) 300729
- Half Length (2900mm) 300726

**Edgetec® 220 Rail**
- End Cap (300494) 38x30mm

**Edgetec® 220 Rail**
- Black EPDM Gasket (2900mm length) for 12mm Glass 300593
- for 15mm Glass 300594

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**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.

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**JOINERS NOM. 22.5 X 5MM ALUMINIUM**

**Edgetec® 220 Rail Inline Joiner** (#300847)
- 30x30x5mm

**Edgetec® 220 Rail Fixed 90 Degree Joiner** (#300848)
- 30x30x5mm

**Edgetec® 220 Rail Vertical Adjustable Joiner** (#301990)

**Edgetec® 220 Rail Horizontal Adjustable Joiner** (#301990)

**Edgetec® 220 Rail Horizontal Fixed Joiner** (#301985)

**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

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**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 7.3.1
POSIGLAZE 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 Cl 7.3.1
S25 Link Rail

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

S25 LINK RAIL SECTION
300738

S25 LINK RAIL INLINE JOINER
300852

S25 LINK RAIL 90° CORNER
300861

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

S25 LINK RAIL SECTION
300738

S25 LINK RAIL 90° CORNER JOINER
300864

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
POSIGLAZE RAIL & BRACKETS
S25 Link Rail

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

S25 LINK RAIL WALL BRACKET
300738

S25 RAIL WALL BRACKET
(RIGHT HAND - 301946)

S25 LINK RAIL WALL BRACKET
LEFT HAND - 300148

S25 RAIL WALL BRACKET
300738

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, \( n^* = 0.9kN \) - inwards, outwards or down.
2. Concrete wall to be minimum 140mm thick.
3. Concrete wall must be reinforced & is to be designed in accordance with NZS3101.

IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1
**POSIGLAZE 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, \( n^* = 0.9 \text{kN} \) - 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.

**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, \( n^* = 0.9 \text{kN} \) - inwards, outwards or down.
2. Minimum stud size = 90x45.
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, \( n^* = 0.9 \text{kN} \) - inwards, outwards or down.
2. Building designer to ensure durability requirements of connection are met.
3. Minimum steel post wall thickness = 5mm.

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

### S40 Link Rail

#### S40-02
**S40 RAIL - SPLICE CONNECTION DETAIL**

All fixings to be stainless steel

### S40-03
**S40 RAIL - 90° CORNER CONNECTION DETAIL**

All fixings to be stainless steel

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

S40 Link Rail

S40-04
S40 RAIL WALL BRACKET

All fixings to be stainless steel

S40 LINK RAIL SECTION
300739

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 & is to be designed & detailed in accordance with NZS3101.

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 & 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, $n^*$ = 0.9kN - 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.

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, $n^*$ = 0.9kN - inwards, outwards or down.
2. Minimum stud size = 90x45.
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, $n^*$ = 0.9kN - 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
POSIGLAZE RAIL & BRACKETS

For attaching EDGETEC® 220 (on glass) to a Semi Frameless AP65 Post Interlinking Top Rail (where wall fixing not suitable)

**AP65 Structural Post & Edgetec® 220**

**Rail Side Elevation**

**AP65 Structural Post & Edgetec® 220 Rail Plan**

**PosiGlaze Side Fix**

**Edgetec® 220 Rail & AP65 Semi Frameless Post Extrusion Side Fix Post as an end Post**

145mm for 10mm coachscrews to 2x190x45 joists.
95mm for M10 bolts & nuts to 2x140x45 joists.
60mm for M10 bolts & nuts to steel.
60mm for M10 stud to concrete.

**PosiGlaze Base Fix**

**AP65 Semi Frameless Post Extrusion Base Fix Post as an end Post**

**IMPORTANT NOTE:** Conforming to NZS 4223.3:2016 and Building Code Clause B1/AS1 Cl 7.3.1
POSIGLAZE RAIL & BRACKETS
For attaching S25 Link Rail (on glass) to a Semi Frameless AP65 Post Interlinking Top Rail (where wall fixing not suitable)

AP65 Structural Post & S25 Rail Side Elevation
AP65 Structural Post & S25 Rail Plan

PosiGlaze Side Fix
S25 Rail & AP65 Semi Frameless Post Extrusion Side Fix Post as an end Post

PosiGlaze Base Fix
AP65 Semi Frameless Post Extrusion PosiGlaze Base Fix Base Fix Post as an end Post

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

For attaching S40 Link Rail (on glass) to a Semi Frameless AP78 Post Interlinking Top Rail (where wall fixing not suitable)

Important note: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1