

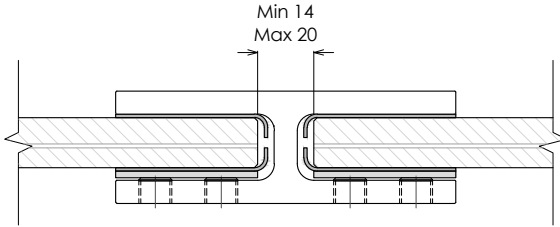
# STRUT POST SP160B BALUSTRADE SYSTEM

## Balustrade Stiffener Brackets

### STRAIGHT BRACKET

12-15.5mm GLASS

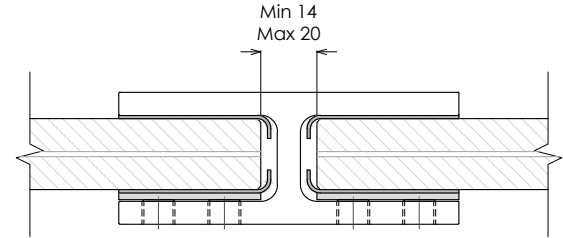
300149



### STRAIGHT BRACKET

17.2 - 21.52mm GLASS

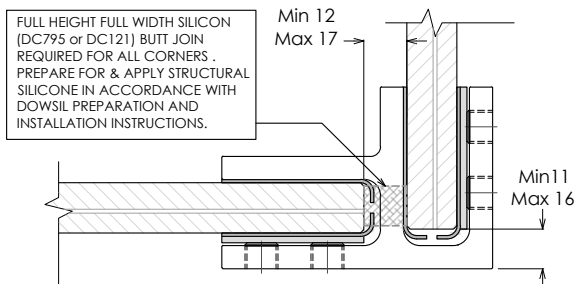
300150



### CORNER BRACKET

12-15.5mm GLASS

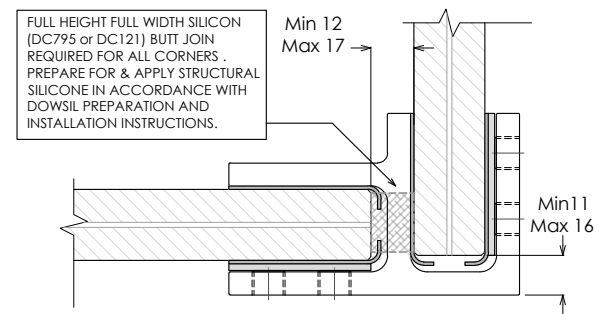
300151



### CORNER BRACKET

17.2 - 21.52mm GLASS

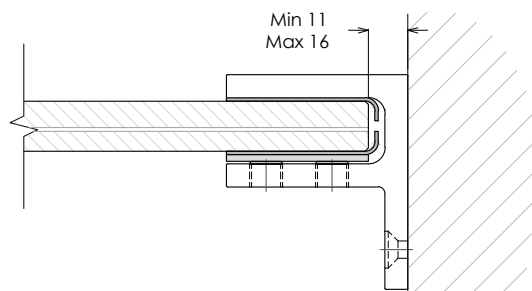
300152



### WALL BRACKET

12-15.5mm GLASS

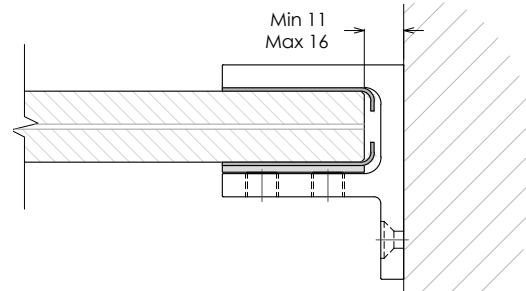
300153



### WALL BRACKET

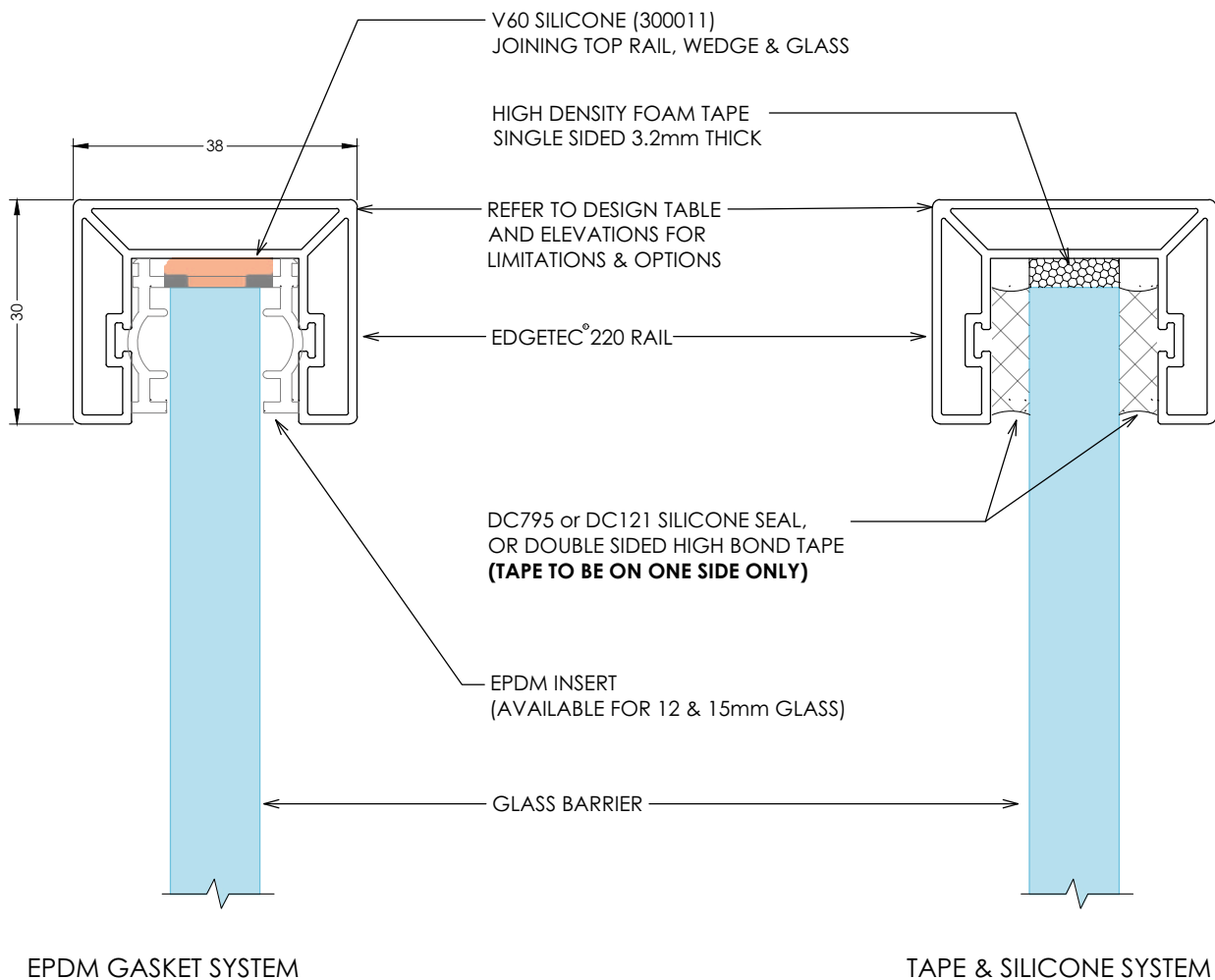
17.2 - 21.52mm GLASS

300154



# STRUT POST SP160B BALUSTRADE SYSTEM

## 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

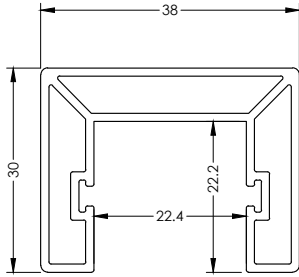
**IMPORTANT NOTE:** Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 CI 7.3.1

# STRUT POST SP160B RAIL & BRACKETS

## Edgetec® 220 Link Rail

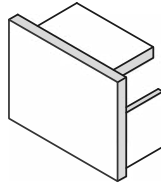
### Edgetec® 220 Rail for 12mm & 15mm Glass

Full Length (5800mm) 300729  
Half Length (2900mm) 300726  
38x30mm



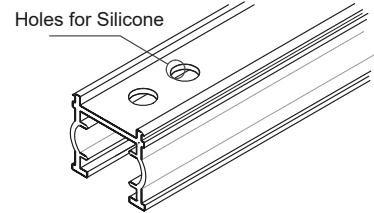
### Edgetec® 220 Rail

End Cap (300494)  
38x30mm



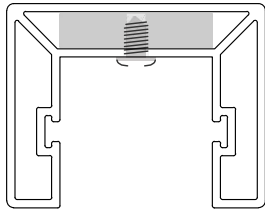
### Edgetec® 220 Rail

Black EPDM Gasket (2900mm length)  
for 12mm Glass 300593  
for 15mm Glass 300594



### Joiners: (After cutting extrusions to length)

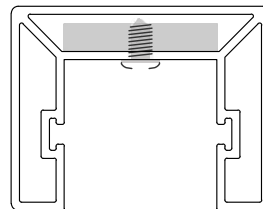
- With Joiner in place, spot drill from below for position
- Drill out to joiner to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive Screw (301993)



Joiners both 22.5 x 5mm  
Aluminium

### 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.

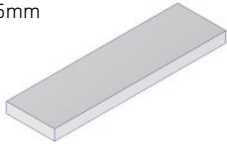


End Plate  
Tabs all 22.5 x 4mm SS.

## JOINERS NOM. 22.5 X 5MM ALUMINIUM

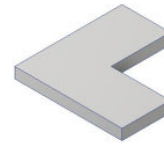
### Edgetec® 220 Rail Inline Joiner (#300847)

80x22.5x5mm

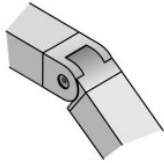


### Edgetec® 220 Rail Fixed 90 Degree Joiner (#300848)

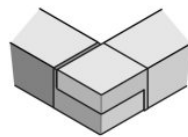
50x50x5mm



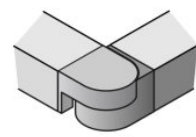
### Edgetec® 220 Rail Vertical Adjustable Joiner (#301990)



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



### 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 (#301006)

120x45mm



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

100x45mm



\* Suits AP65 Aluminium Post

TABS ALL 22.5 X 4MM. FRONT FACES ALL 3MM SS.

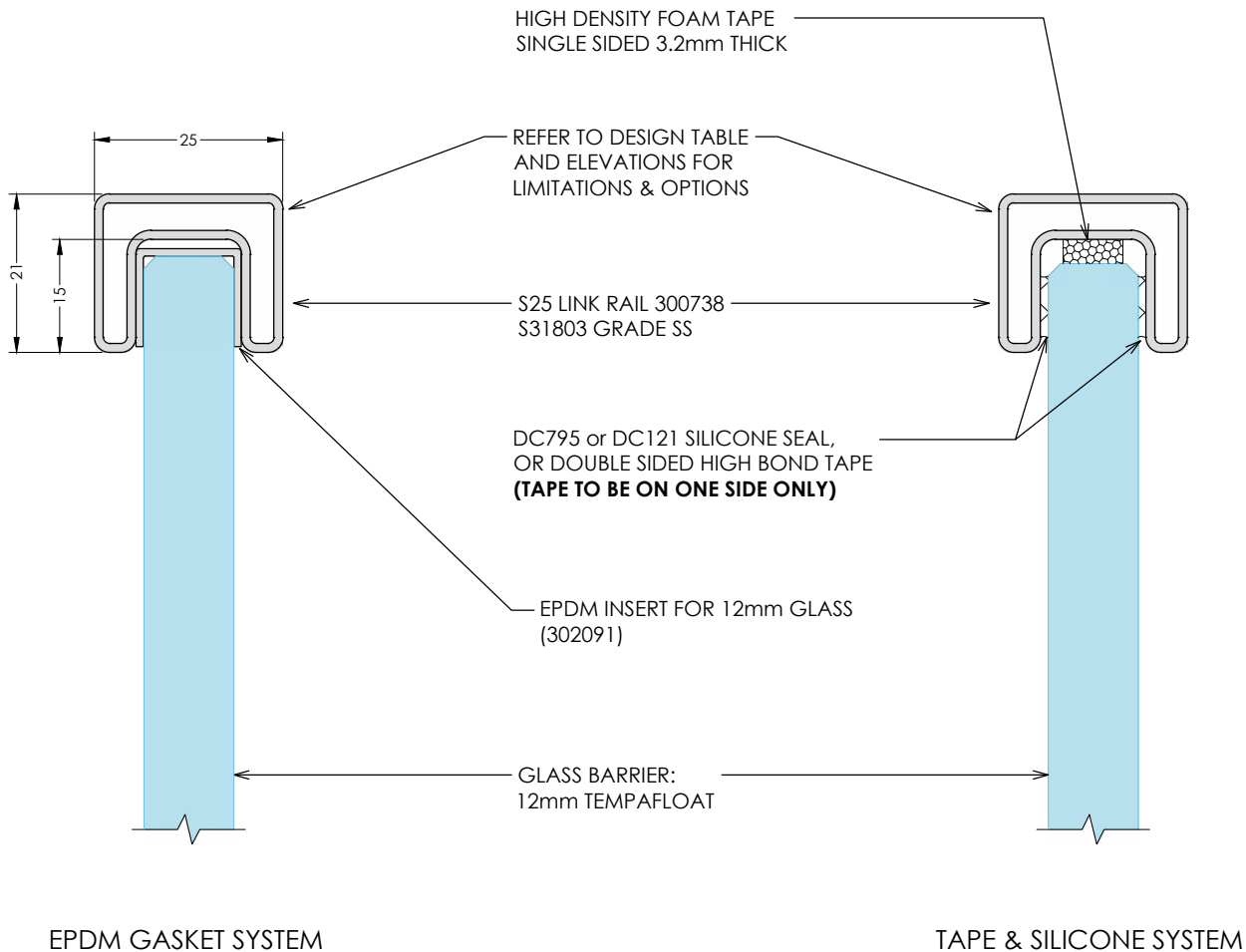
**IMPORTANT NOTE:** Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

# STRUT POST SP160B RAIL & BRACKETS

## S25 Link Rail

### S25-01

### S25 RAIL - TYPICAL INSTALLATIONS



EPDM GASKET SYSTEM

TAPE & SILICONE SYSTEM

#### 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).
6. Link rail section and connection pieces to be S31803 grade stainless steel, In accordance with NZS 4673:2001.
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 CI 7.3.1

# STRUT POST SP160B RAIL & BRACKETS

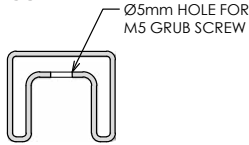
## S25 Link Rail

### S25-02

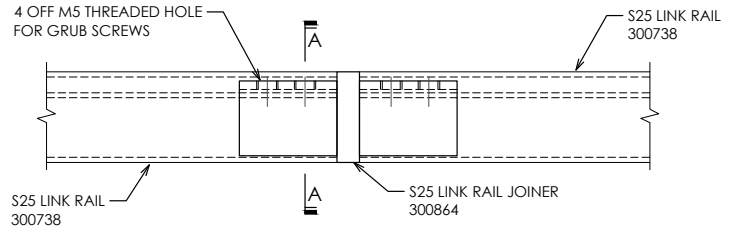
### S25 RAIL - SPLICE CONNECTION DETAIL

All fixings to be stainless steel

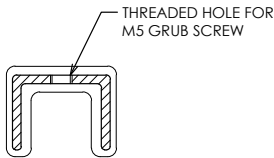
#### S25 LINK RAIL SECTION 300738



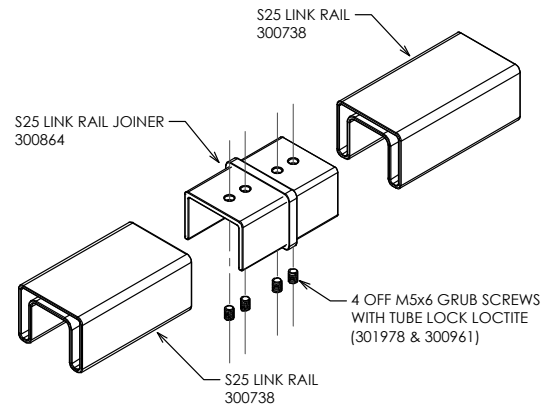
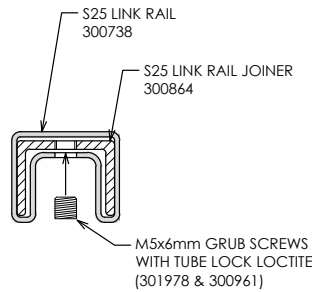
#### S25 LINK RAIL - SPLICE CONNECTION ELEVATION



#### S25 LINK RAIL INLINE JOINER 300852



#### SECTION A-A

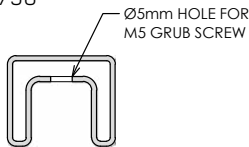


### S25-03

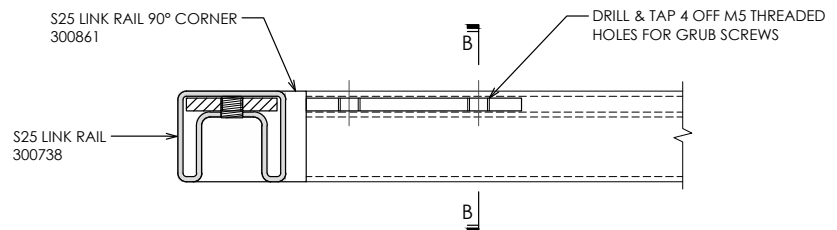
### S25 RAIL - 90° CORNER CONNECTION DETAIL

All fixings to be stainless steel

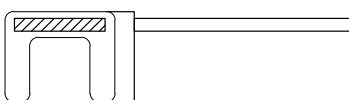
#### S25 LINK RAIL SECTION 300738



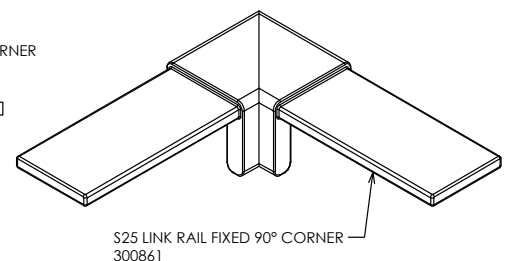
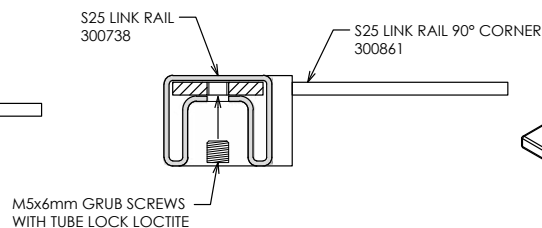
#### S25 LINK RAIL - 90° CORNER CONNECTION ELEVATION



#### S25 LINK RAIL 90° CORNER 300861



#### SECTION B-B



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

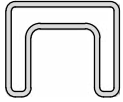
# STRUT POST SP160B RAIL & BRACKETS

## S25 Link Rail

### S25-04 S25 RAIL WALL BRACKET

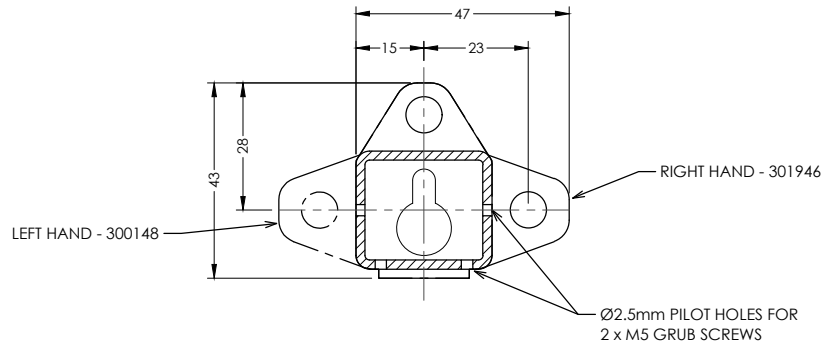
All fixings to be stainless steel

#### S25 LINK RAIL SECTION 300738

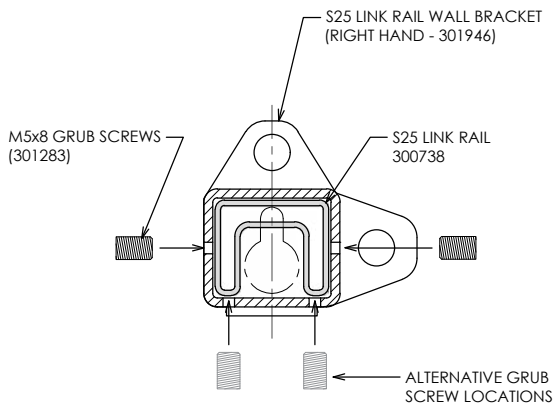


#### S25 LINK RAIL WALL BRACKET

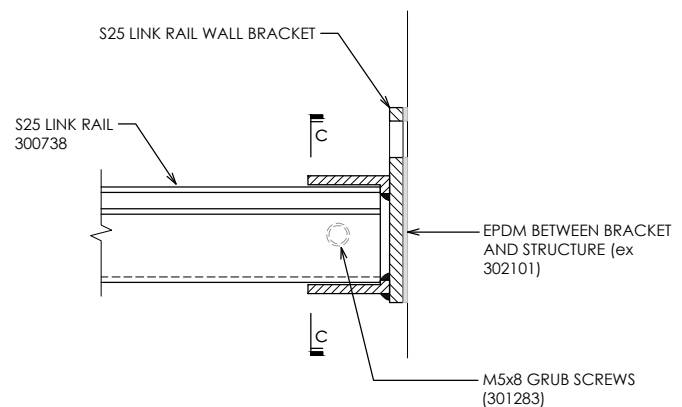
RIGHT HAND - 301946 LEFT HAND - 300148



#### SECTION C-C



#### S25 LINK RAIL - END BRACKET SECTION

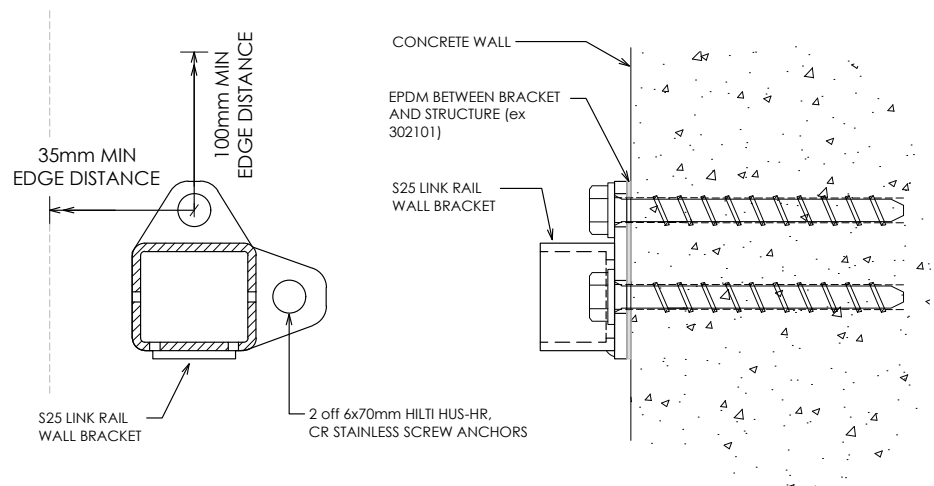


### S25-05 S25 RAIL - END BRACKET CONCRETE WALL ATTACHMENT

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.
4. Minimum concrete strength = 20MPa.



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

# STRUT POST SP160B RAIL & BRACKETS

## S25 Link Rail

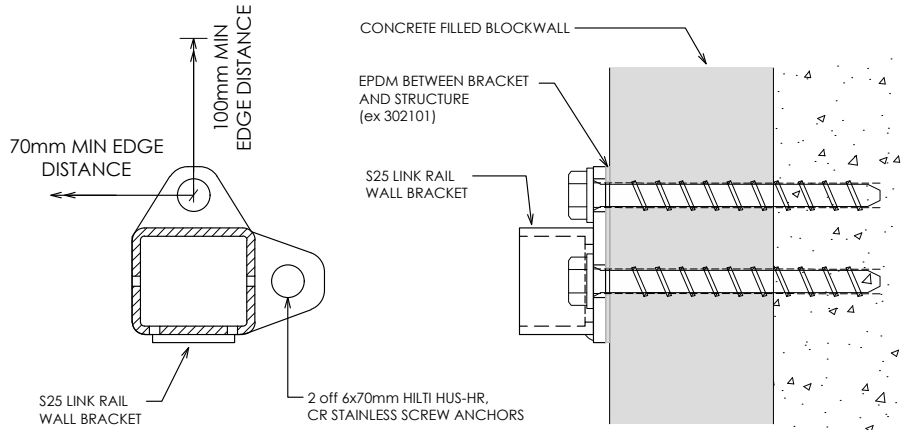
### S25-06

### 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  $\emptyset$  is to be designed  $\emptyset$  detailed in Accordance with NZS4230 or NZS4229.
4. Minimum corefill concrete Strength = 17.5MPa.



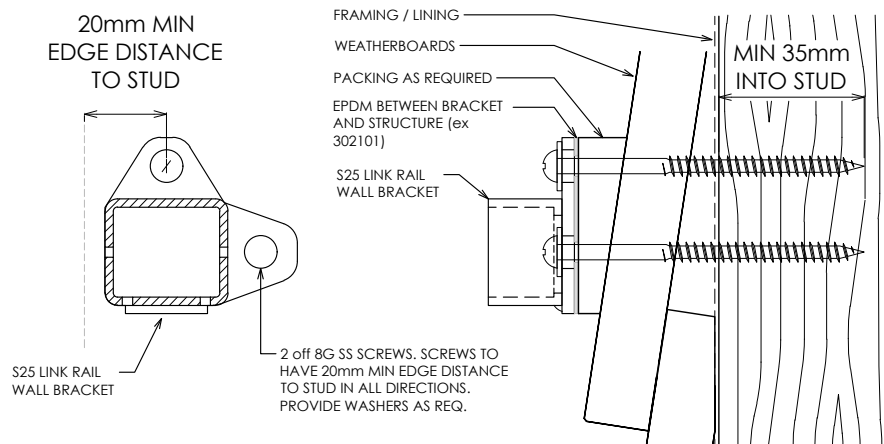
### S25-07

### 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,  $n^* = 0.9\text{kN}$  - Inwards, outwards or down.
2. Minimum stud size = 90x45.
3. Minimum timber grade = SG8.
4. Timber stud wall to be Designed  $\emptyset$  detailed in accordance with NZS3603 or NZS3604.



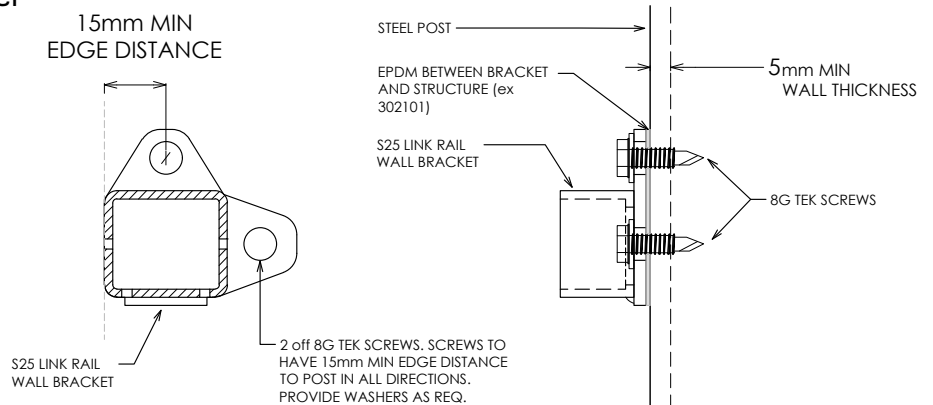
### S25-08

### 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.
4. Minimum steel grade = 300MPa.



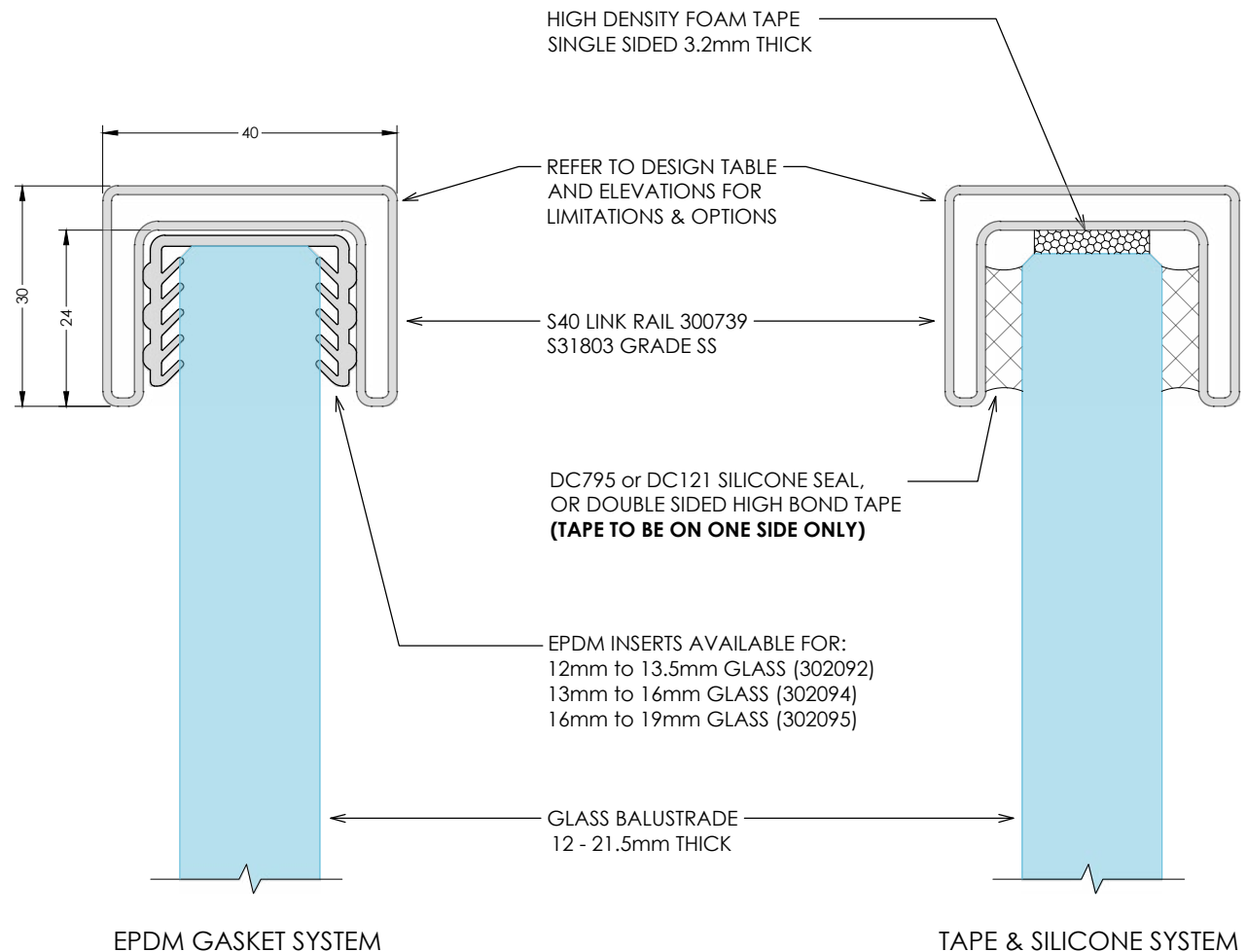
**IMPORTANT NOTE:** Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

# STRUT POST SP160B RAIL & BRACKETS

## S40 Link Rail

### S40-01

### S40 RAIL - TYPICAL INSTALLATIONS



#### NOTES:

- Interlinking rail details are only to be used on metro performance glass cantilevered glass balustrades.
- Prepare for and apply DC795 & DC121 structural silicone in accordance with dow corning preparation and installation instructions.
- Interlinking rail splice & corner connections are shown on drawings S40-02 & S40-03
- Interlinking rail end connection brackets & attachment details are shown on drawings S40-04 to S40-08.
- All screws to be stainless steel with a minimum ultimate shear strength of 3.5kN (per screw).
- Link rail section and connection pieces to be S31803 grade stainless steel, in accordance with NZS 4673:2001.
- 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



# STRUT POST SP160B RAIL & BRACKETS

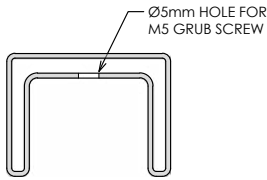
## S40 Link Rail

### S40-02

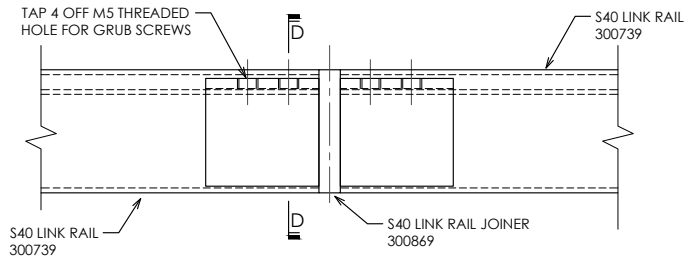
### S40 RAIL - SPLICE CONNECTION DETAIL

All fixings to be stainless steel

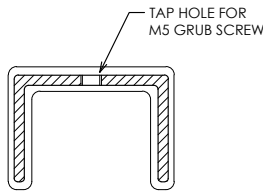
#### S40 LINK RAIL SECTION 300739



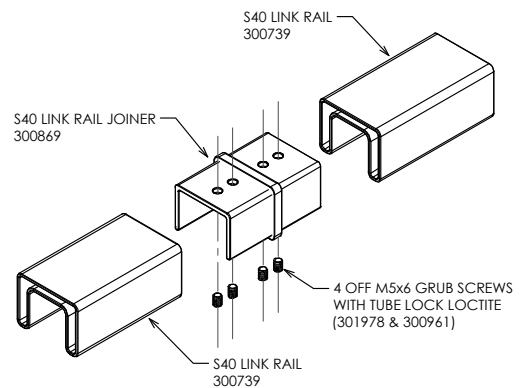
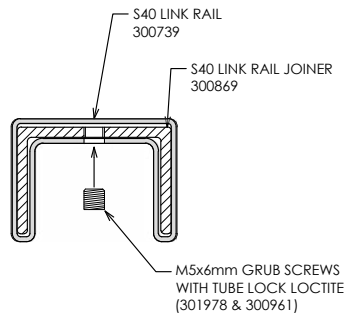
#### S40 LINK RAIL - SPLICE CONNECTION ELEVATION



#### S40 LINK RAIL INLINE JOINER 300869



#### SECTION D-D

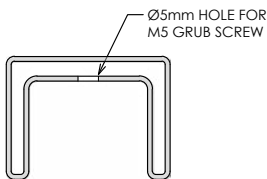


### S40-03

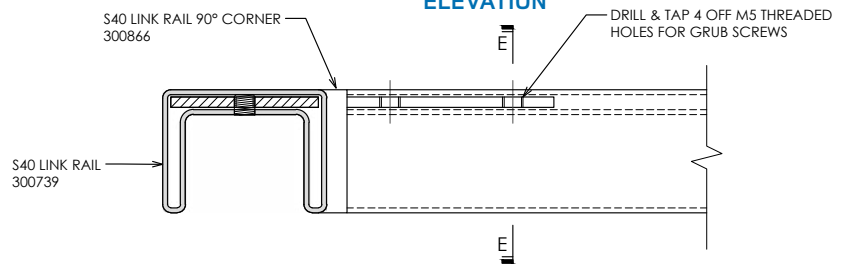
### S40 RAIL - 90° CORNER CONNECTION DETAIL

All fixings to be stainless steel

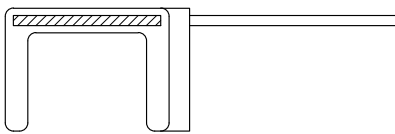
#### S40 LINK RAIL SECTION 300739



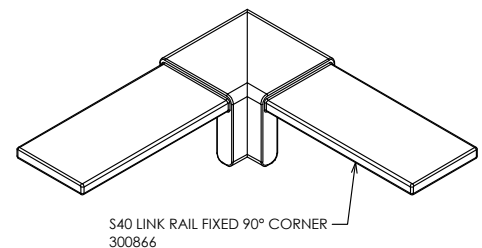
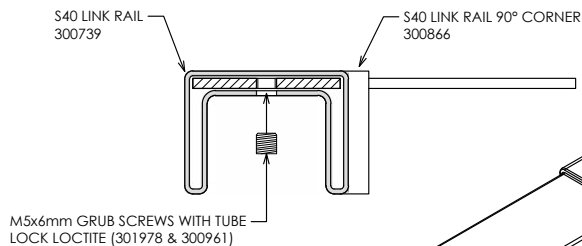
#### S40 LINK RAIL - 90° CORNER CONNECTION ELEVATION



#### S40 LINK RAIL 90° CORNER 300866



#### SECTION E-E



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

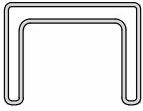
# STRUT POST SP160B RAIL & BRACKETS

## S40 Link Rail

### S40-04 S40 RAIL WALL BRACKET

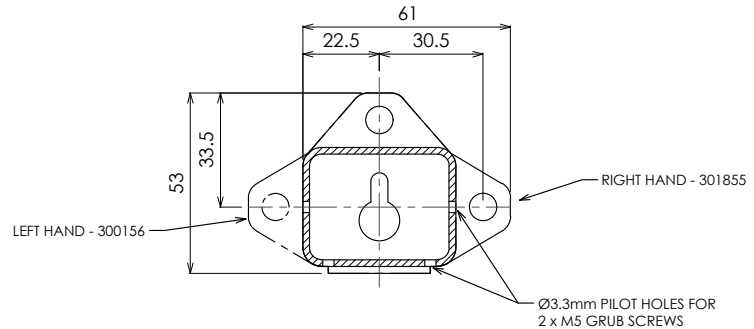
All fixings to be stainless steel

#### S40 LINK RAIL SECTION 300739

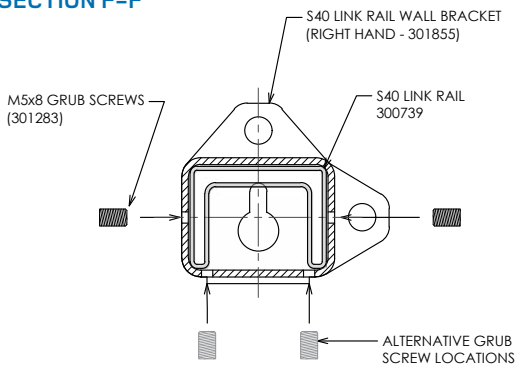


#### S40 LINK RAIL WALL BRACKET

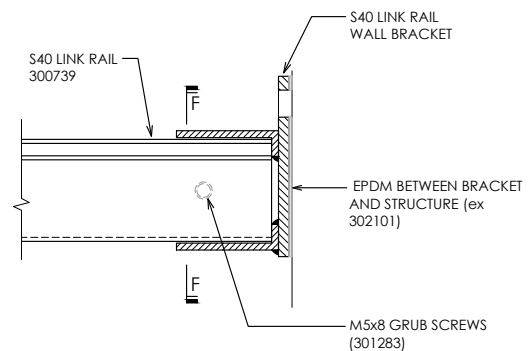
RIGHT HAND - 301855  
LEFT HAND - 300156



#### SECTION F-F



#### S40 LINK RAIL - END BRACKET SECTION

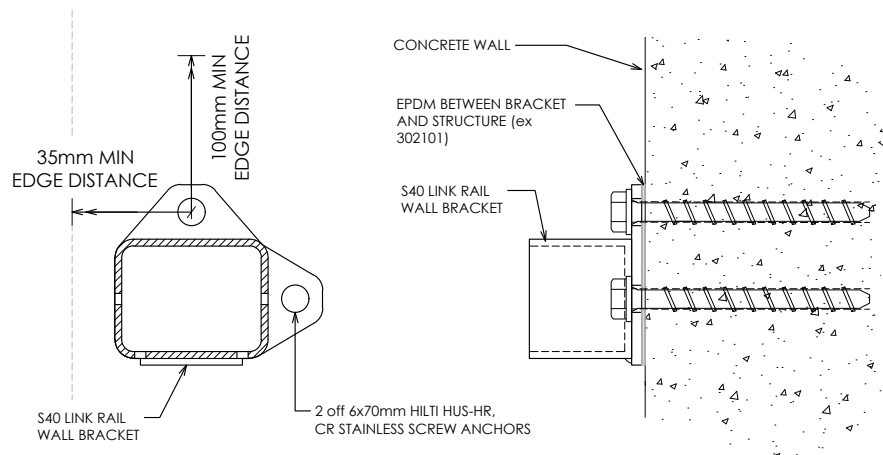


### S40-05 S40 RAIL - END BRACKET CONCRETE WALL ATTACHMENT

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,  $n^* = 0.9\text{kN}$  - 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.
4. Minimum concrete strength = 20MPa.



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

# STRUT POST SP160B RAIL & BRACKETS

## S40 Link Rail

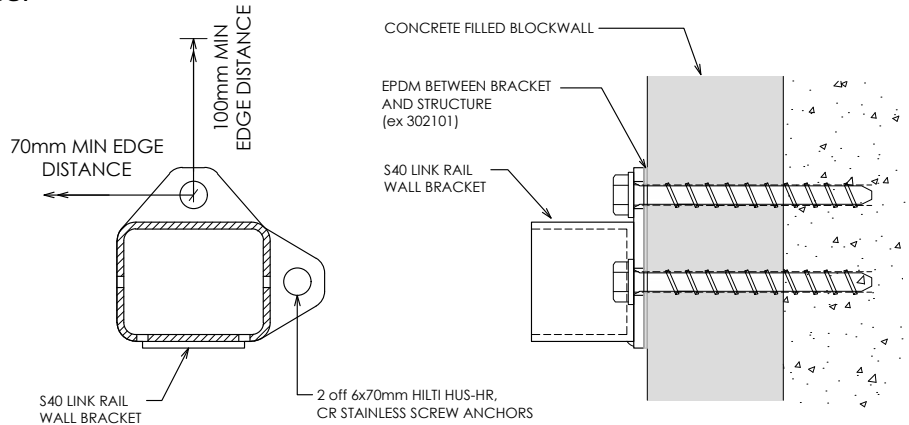
### S40-06

### 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.



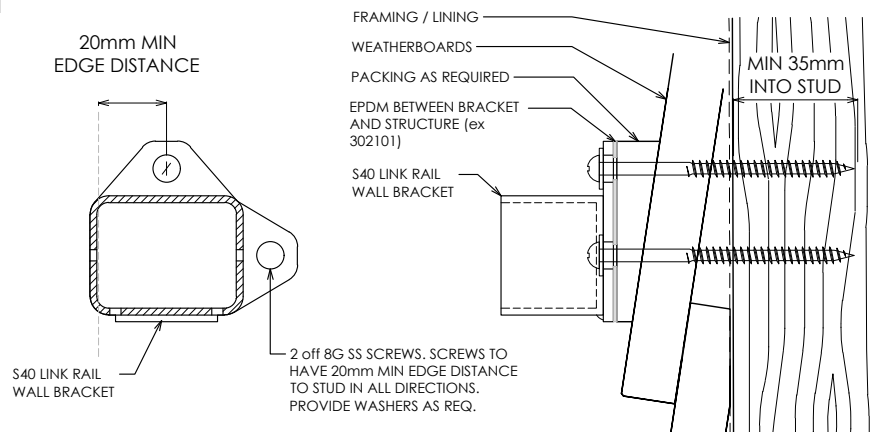
### S40-07

### 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.



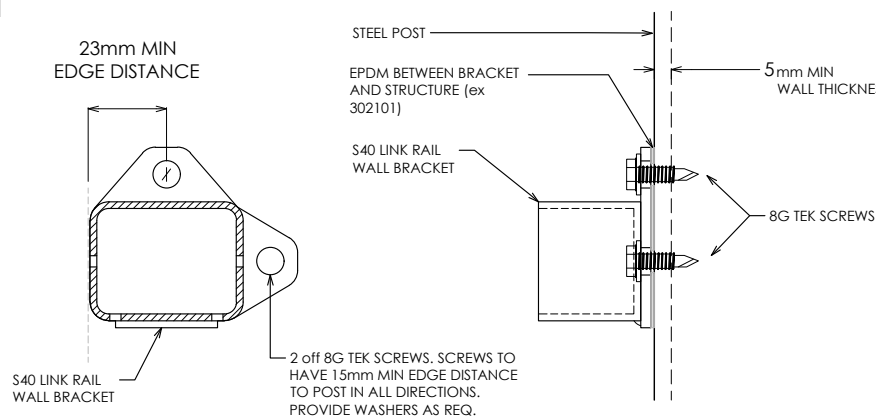
### S40-08

### 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.
4. Minimum steel grade = 300MPa.

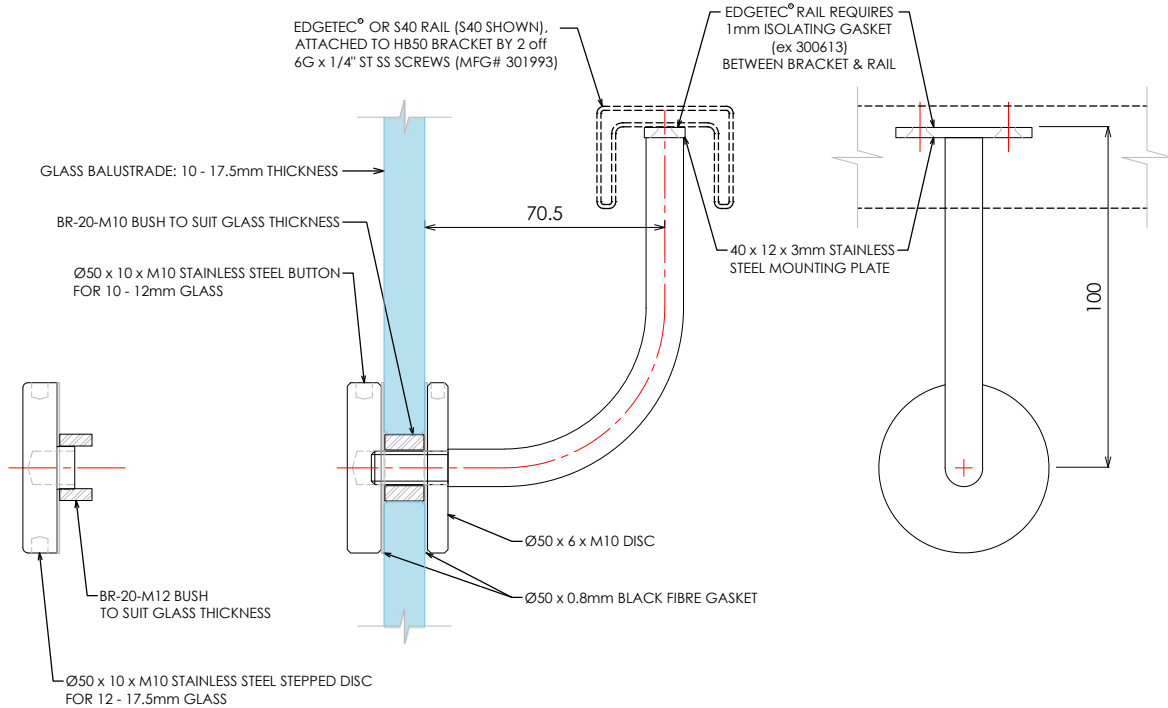


# STRUT POST SP160B RAIL & BRACKETS

## HB50 Rail Brackets

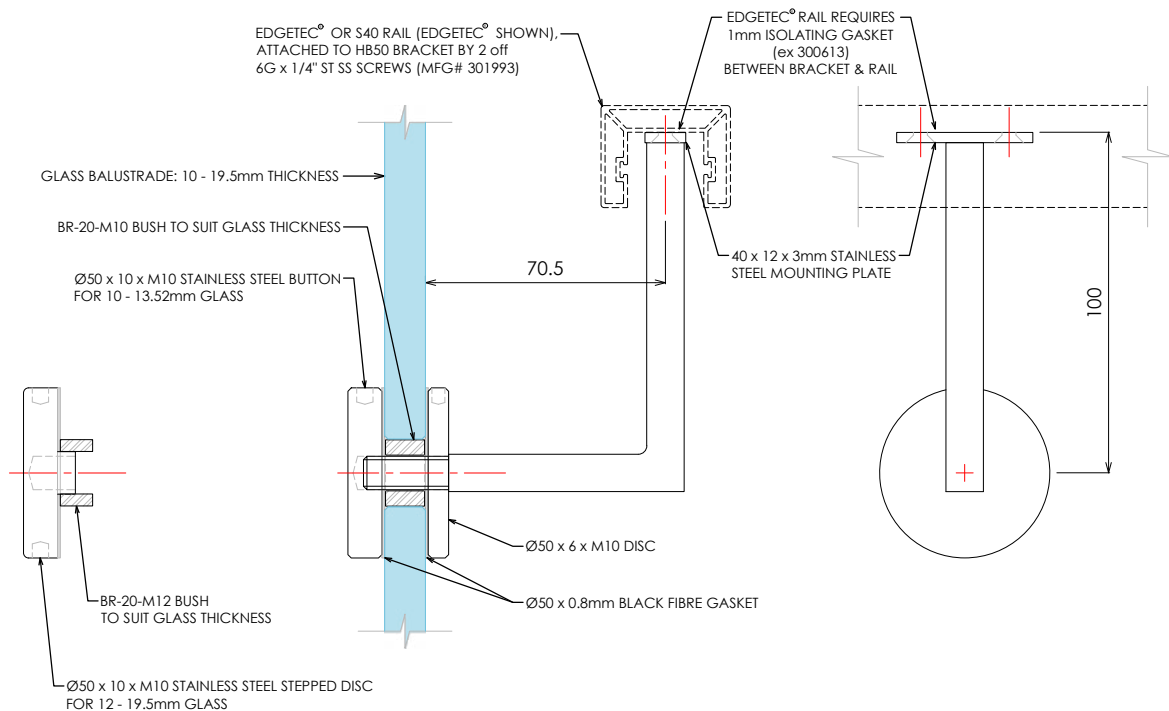
### HB50-R-90 HANDRAIL BRACKET

All fixings to be stainless steel



### HB50-S-90 HANDRAIL BRACKET

All fixings to be stainless steel



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