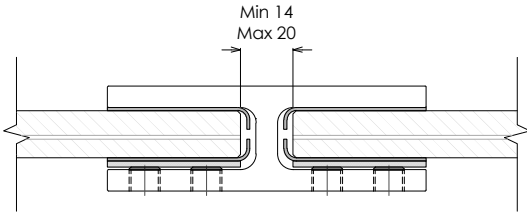
METROVIEW CHANNEL RAIL & BRACKETS

Balustrade Stiffener Brackets

STRAIGHT BRACKET

12–15.5mm GLASS

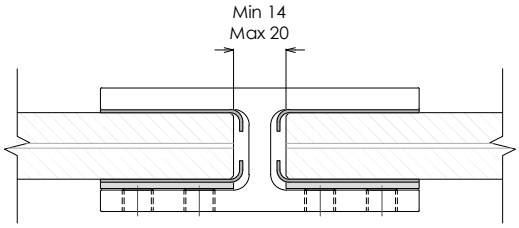
SB180-15



STRAIGHT BRACKET

17.2 – 21.52mm GLASS

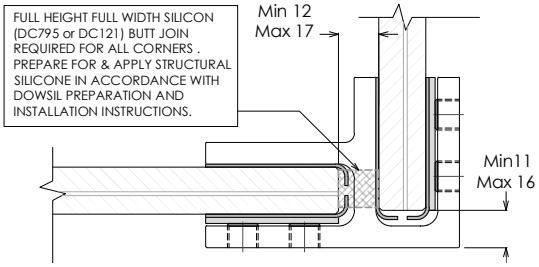
SB180-21



CORNER BRACKET

12–15.5mm GLASS

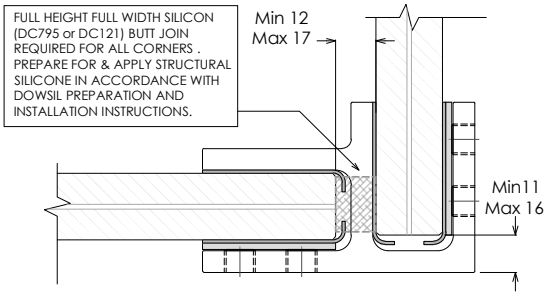
SB90-15



CORNER BRACKET

17.2 – 21.52mm GLASS

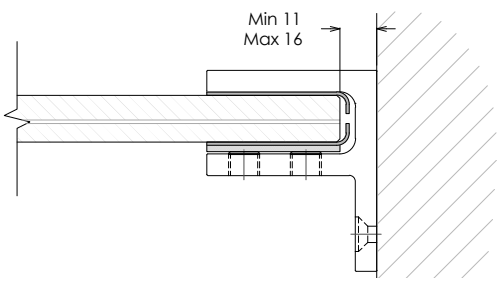
SC90-21



WALL BRACKET

12–15.5mm GLASS

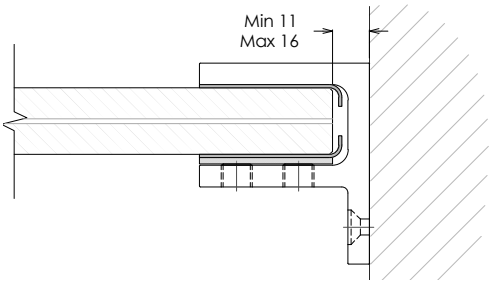
SBW-15



WALL BRACKET

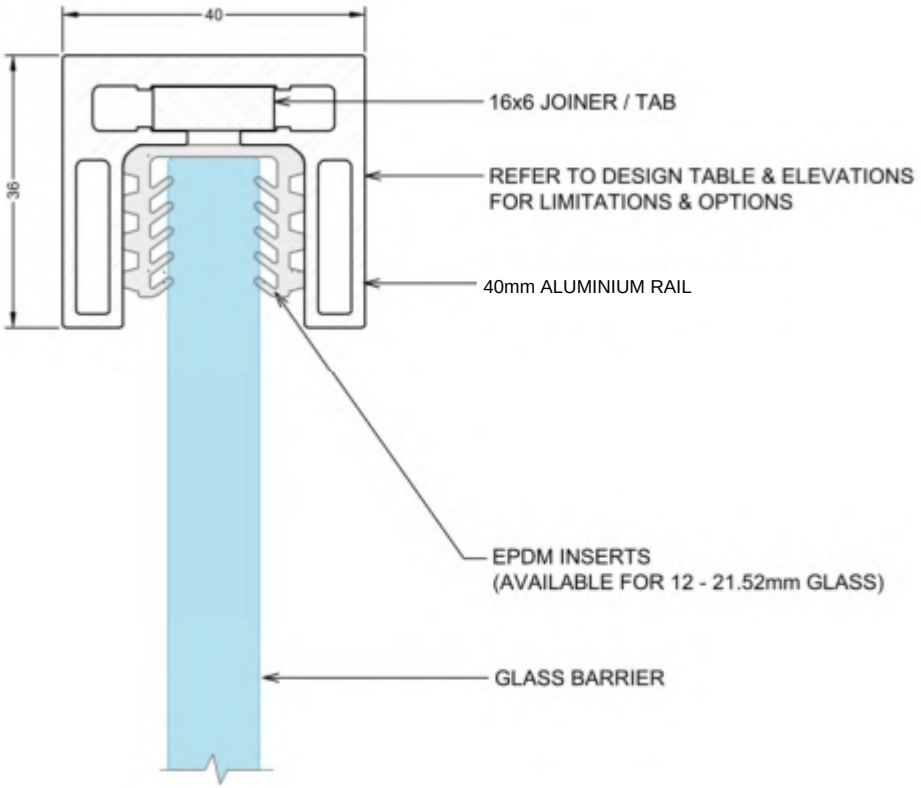
17.2 – 21.52mm GLASS

SBW-21



METROVIEW CHANNEL RAIL & BRACKETS

Metroview 40mm Edgecap (aluminium)



INSTALLATION NOTES:

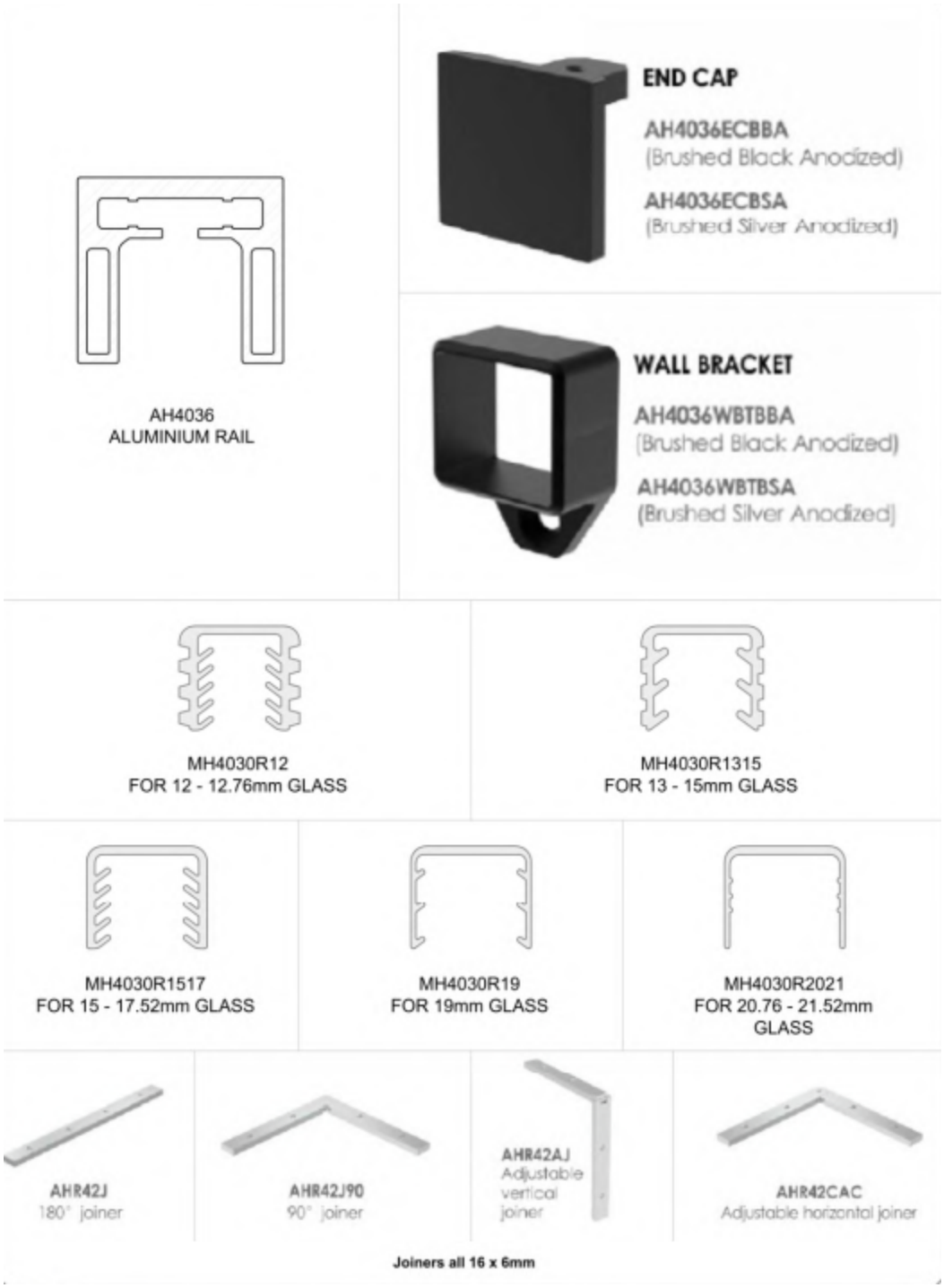
1. Cut short lengths of gasket (nom 50mm) and place at approximately 700mm centres.
2. Cut / adjust interlinking rail to correct dimensions and test in position.
3. Remove all parts from glass barrier and install full cut lengths of gasket to top edge of glass barrier.
4. Assemble top rail, joiners and 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

METROVIEW CHANNEL RAIL & BRACKETS

Metroview 40mm Edgecap (aluminium)

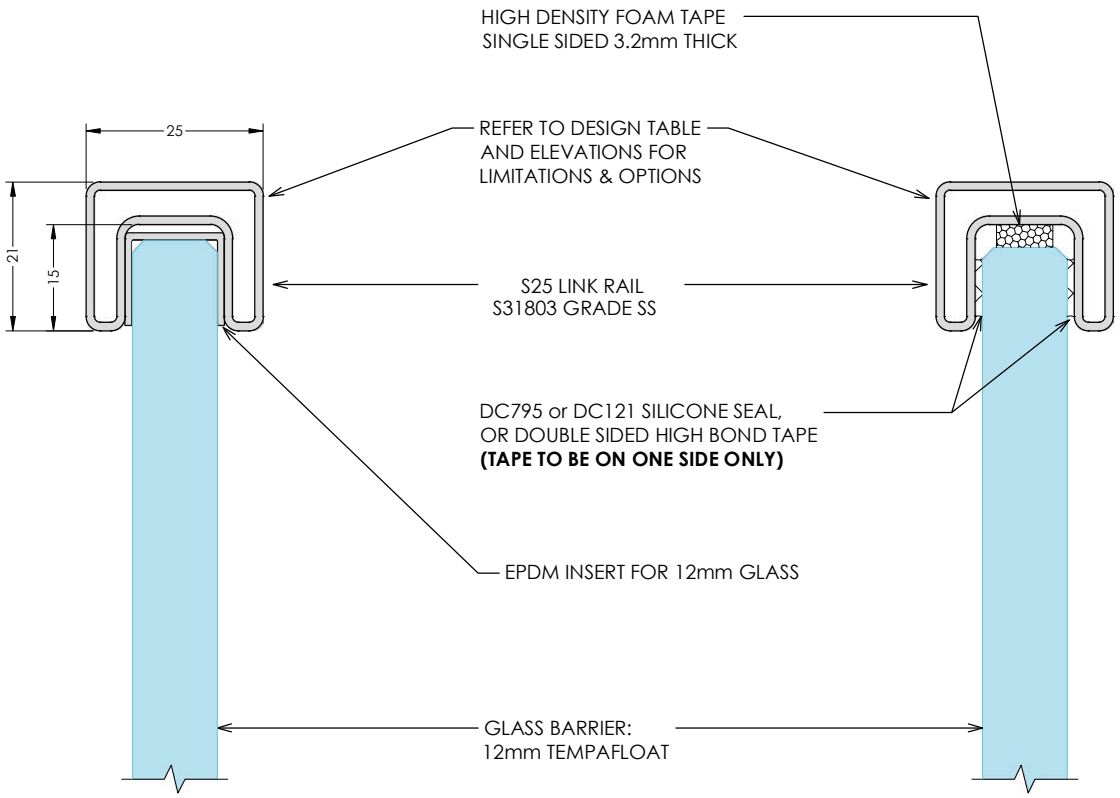


IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

METROVIEW CHANNEL RAIL & BRACKETS

Metroview 25mm Edgecap (S25 stainless)

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 Cl 7.3.1

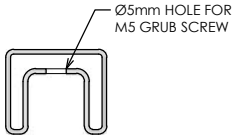
METROVIEW CHANNEL RAILS & BRACKETS

Metroview 25mm Edgecap (S25 stainless)

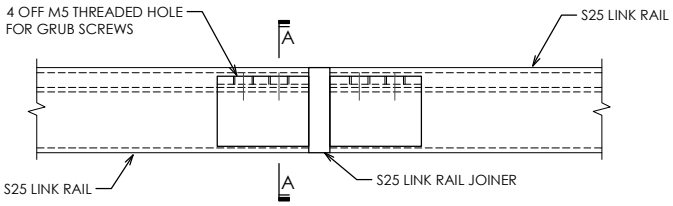
S25-02
S25 RAIL – SPLICE CONNECTION DETAIL

All fixings to be stainless steel

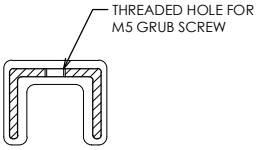
S25 LINK RAIL SECTION



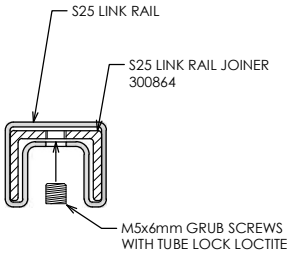
S25 LINK RAIL – SPLICE CONNECTION ELEVATION

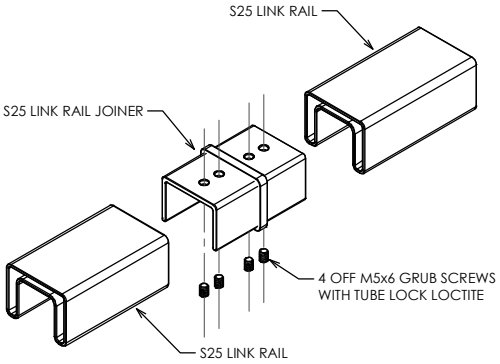


S25 LINK RAIL INLINE JOINER



SECTION A–A

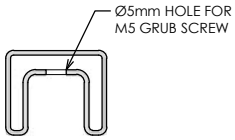




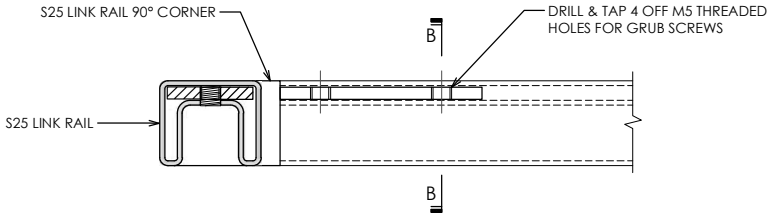
S25-03
S25 RAIL – 90° CORNER CONNECTION DETAIL

All fixings to be stainless steel

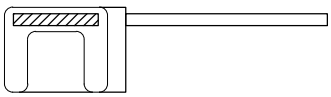
S25 LINK RAIL SECTION



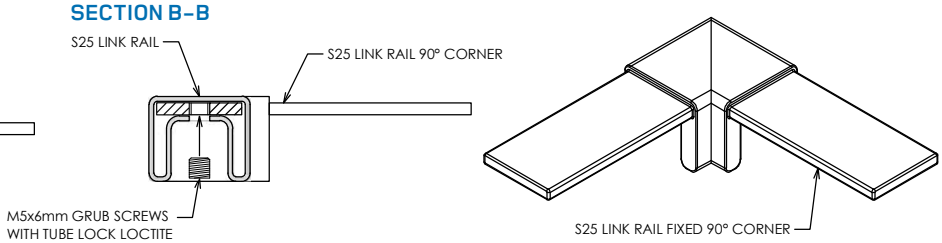
S25 LINK RAIL – 90° CORNER CONNECTION ELEVATION



S25 LINK RAIL 90° CORNER



SECTION B–B



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

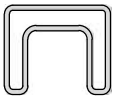
METROVIEW CHANNEL RAIL & BRACKETS

Metroview 25mm Edgecap (S25 stainless)

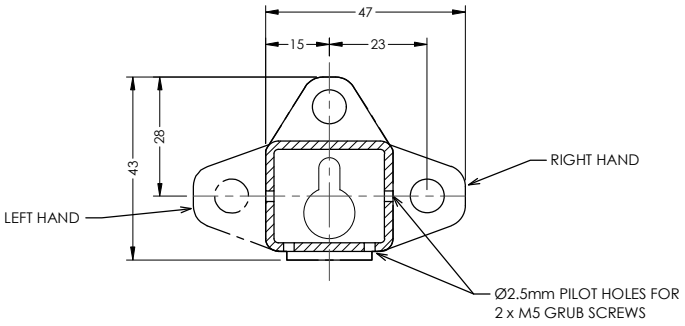
S25-04
S25 RAIL WALL BRACKET

All fixings to be stainless steel

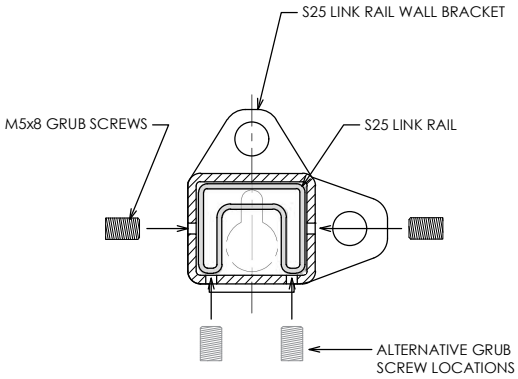
S25 LINK RAIL SECTION



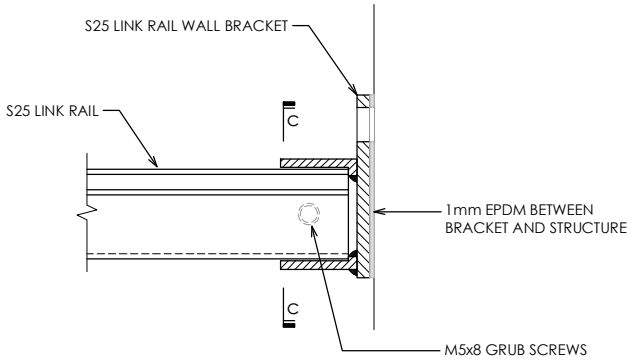
S25 LINK RAIL WALL BRACKET



SECTION C-C



S25 LINK RAIL – END BRACKET SECTION

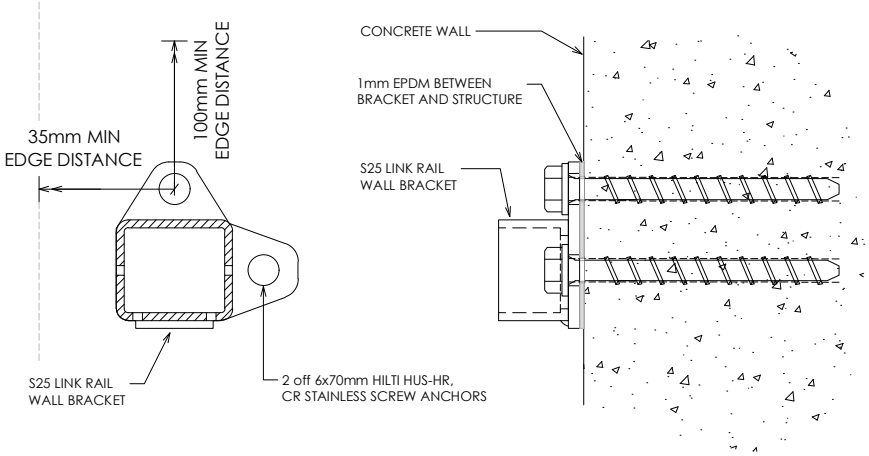


S25-05
S25 RAIL – END BRACKET CONCRETE WALL ATTACHMENT

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* = 0.9kN - 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.
4. Minimum concrete strength = 20MPa.



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

METROVIEW CHANNEL RAIL & BRACKETS

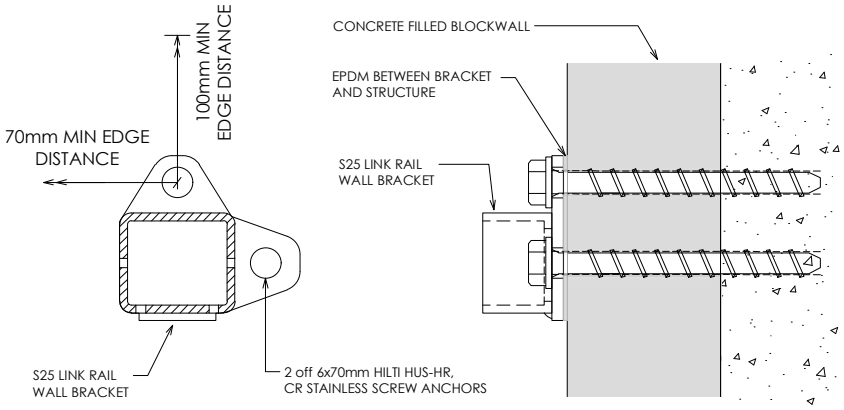
Metroview 25mm Edgecap (S25 stainless)

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.

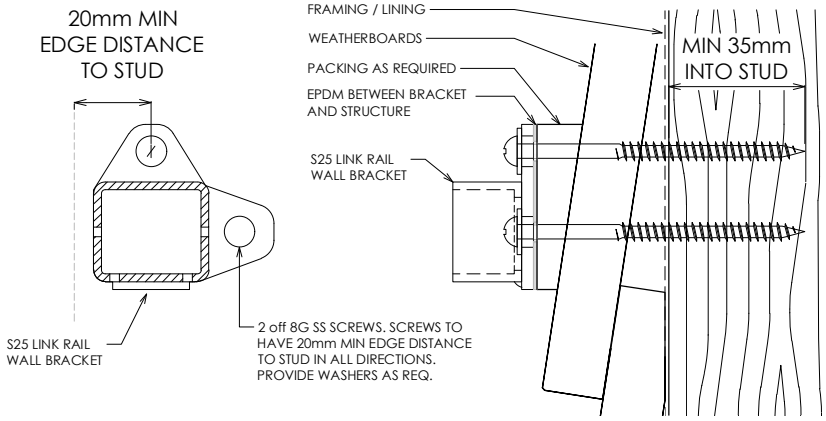


S25-07
S25 RAIL – END BRACKET WEATHERBOARD ATTACHMENT

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.

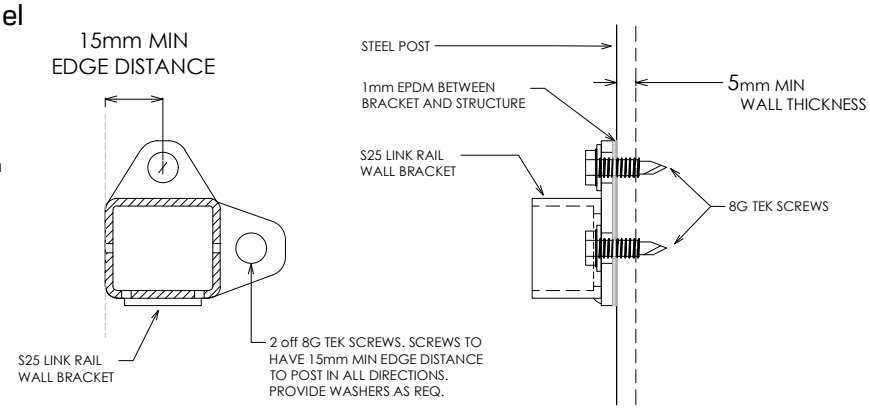


S25-08
S25 RAIL – END BRACKET STEEL POST ATTACHMENT

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.
4. Minimum steel grade = 300MPa.

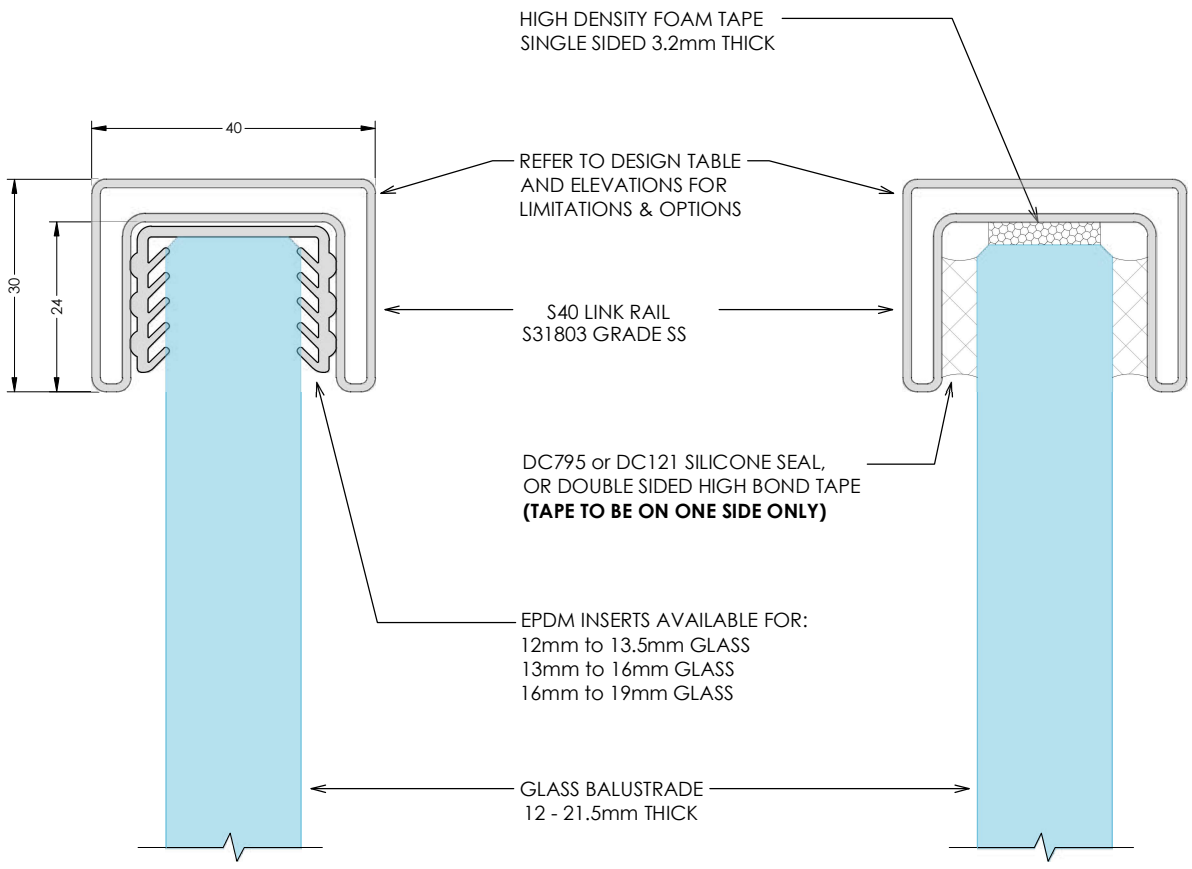


IMPORTANT NOTE: Conforming to NZS 4223.3.2016 and Building Code Clause B1/AS1 Cl 7.3.1

METROVIEW CHANNEL RAIL & BRACKETS

Metroview 40mm Edgecap (S40 stainless)

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).
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 Cl 7.3.1

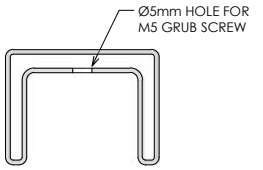
METROVIEW CHANNEL RAIL & BRACKETS

Metroview 40mm Edgecap (S40 stainless)

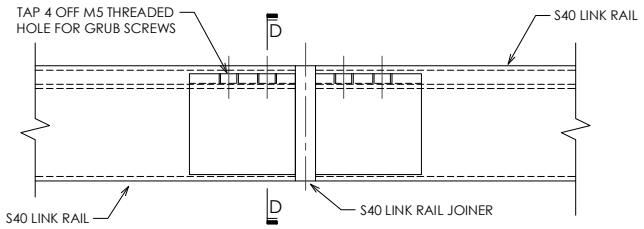
S40-02
S40 RAIL - SPLICE CONNECTION DETAIL

All fixings to be stainless steel

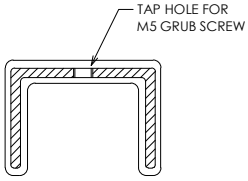
S40 LINK RAIL SECTION



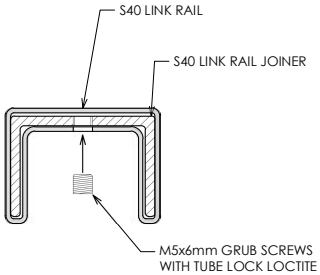
S40 LINK RAIL - SPLICE CONNECTION ELEVATION

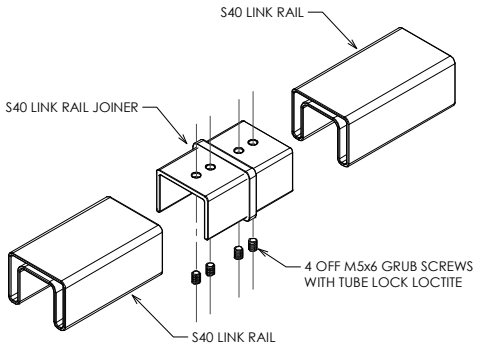


S40 LINK RAIL INLINE JOINER



SECTION D-D

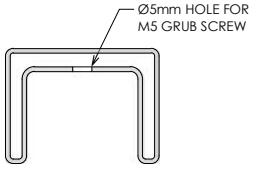




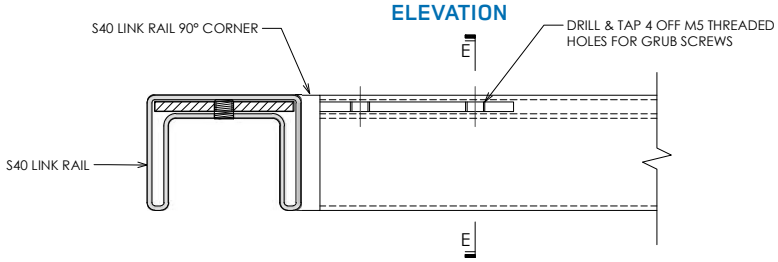
S40-03
S40 RAIL - 90° CORNER CONNECTION DETAIL

All fixings to be stainless steel

S40 LINK RAIL SECTION

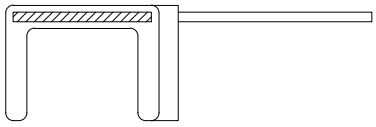


S40 LINK RAIL - 90° CORNER CONNECTION ELEVATION

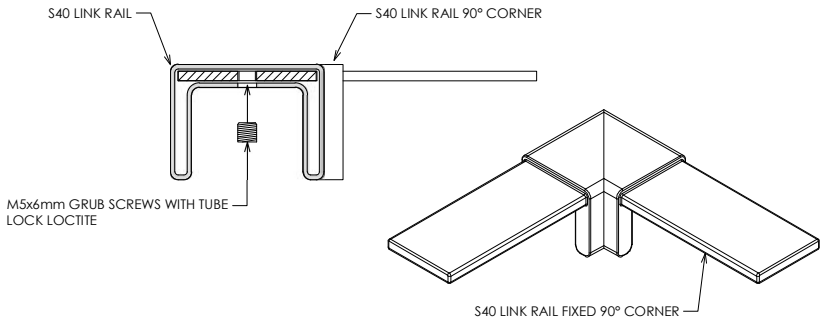


S40 LINK RAIL - 90° CORNER CONNECTION ELEVATION

S40 LINK RAIL 90° CORNER



SECTION E-E



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

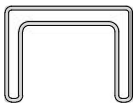
METROVIEW CHANNEL RAIL & BRACKETS

Metroview 40mm Edgecap (S40 stainless)

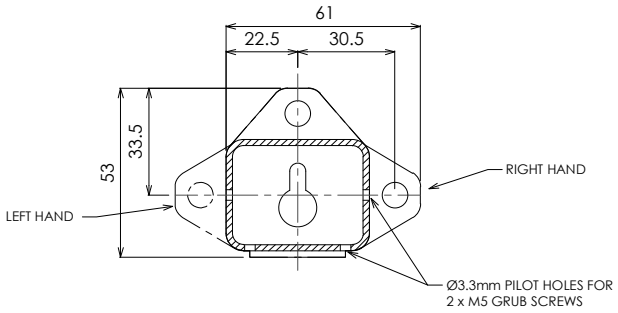
S40-04
S40 RAIL WALL BRACKET

All fixings to be stainless steel

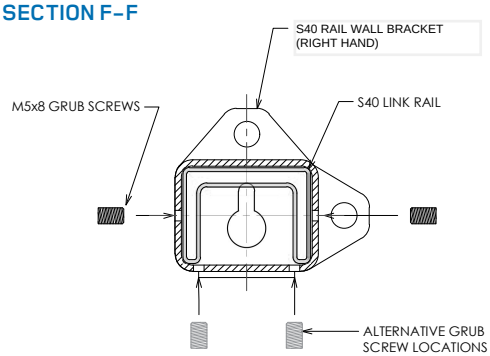
S40 LINK RAIL SECTION



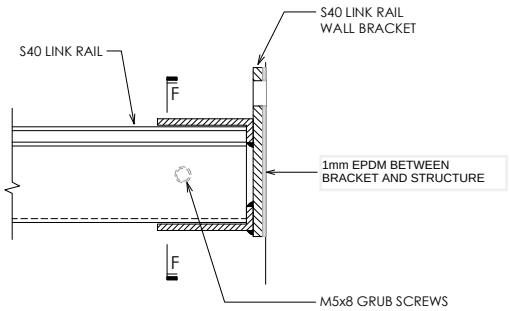
S40 LINK RAIL WALL BRACKET



SECTION F–F



S40 LINK RAIL – END BRACKET SECTION

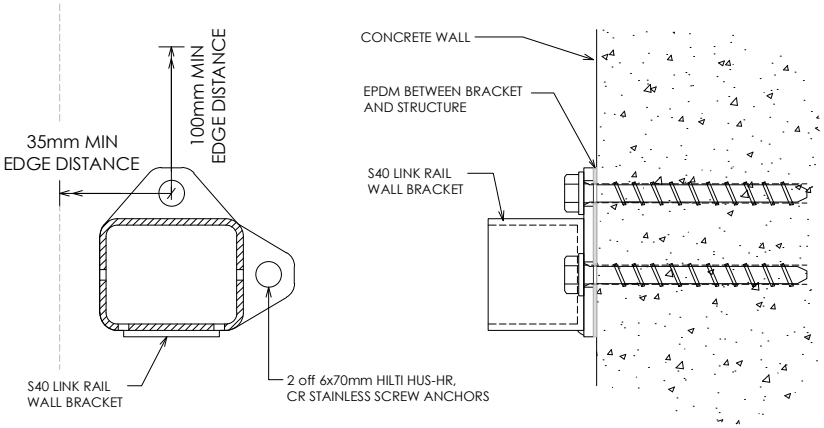


S40-05
S40 RAIL – END BRACKET CONCRETE WALL ATTACHMENT

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* = 0.9kN - 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.
4. Minimum concrete strength = 20MPa.



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

METROVIEW CHANNEL RAIL & BRACKETS

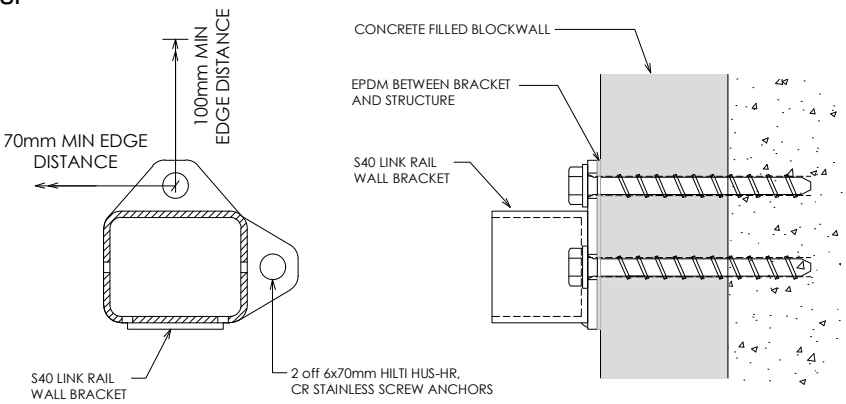
Metroview 40mm Edgecap (S40 stainless)

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.
4. Minimum corefill concrete strength = 17.5Mpa.

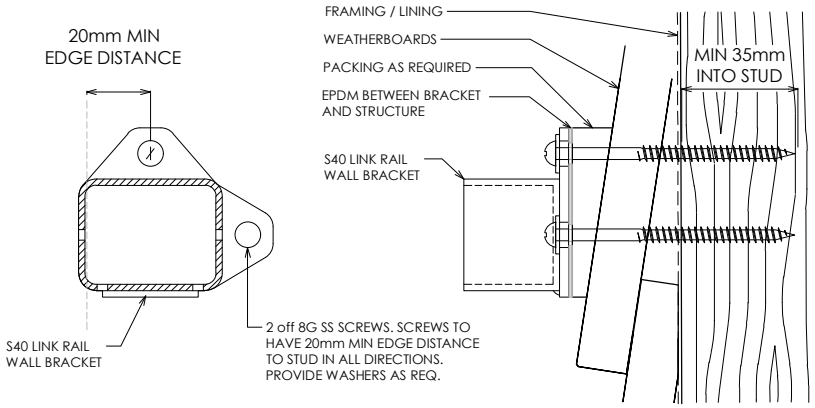


S40-07
S40 RAIL – END BRACKET WEATHERBOARD ATTACHMENT

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* = 0.9Kn - 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.

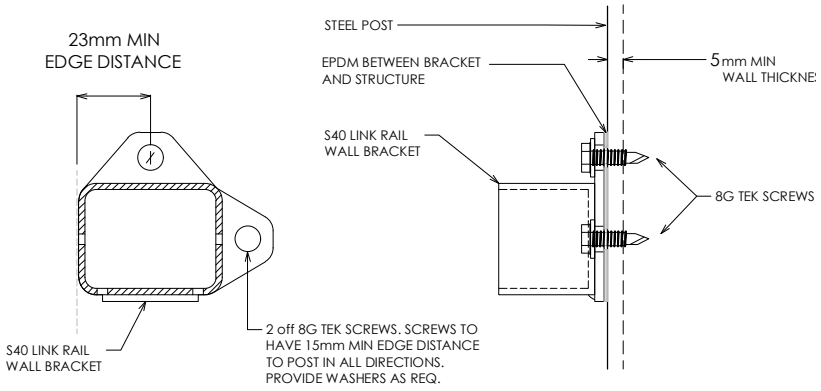


S40-08
S40 RAIL – END BRACKET STEEL POST ATTACHMENT

All fixings to be stainless steel

NOTES:

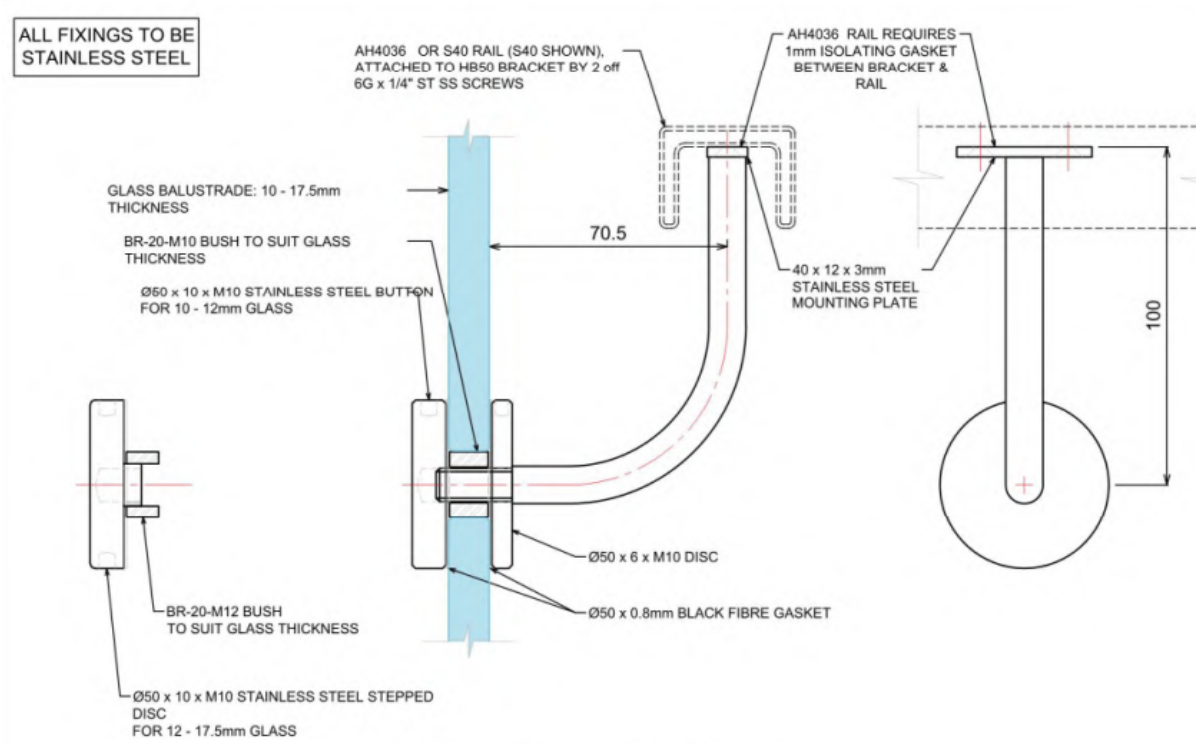
1. Steel post is to be designed by project structural engineer for loads imposed by balustrade. ULS point load, n* = 0.9kN - inwards, outwards or down.
2. Building designer to ensure durability requirements of connection are met.
3. Minimum steel post wall thickness = 5mm.
4. Minimum steel grade = 300MPa.



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

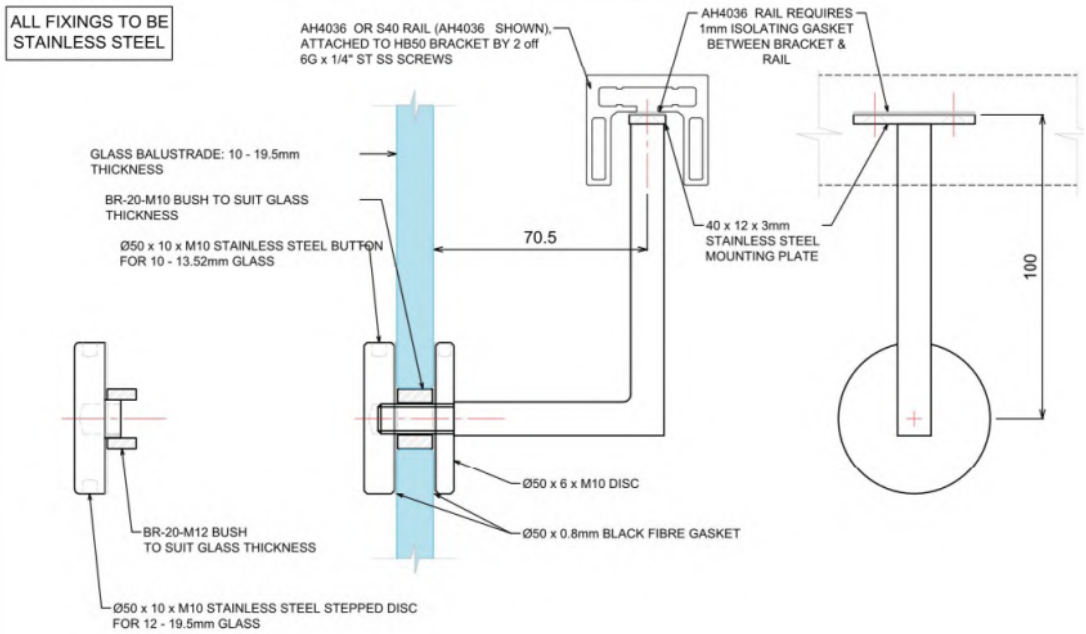
METROVIEW CHANNEL RAIL & BRACKETS
MB50 RAIL BRACKETS

HB50-R-90 HANDRAIL BRACKET



HB50-R recommended for residential installations, to reduce injury hazards where children are likely to be present

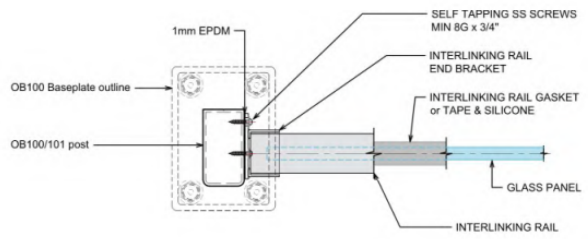
HB50-S-90 HANDRAIL BRACKET



METROVIEW CHANNEL RAIL & BRACKETS

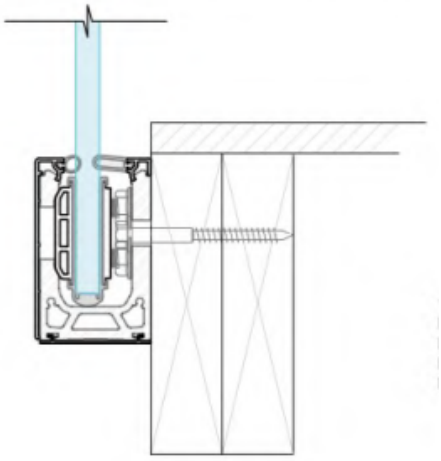
RAIL CONNECTIONS TO END POST (where wall fixing not suitable)

OB100/101 Structural End Post

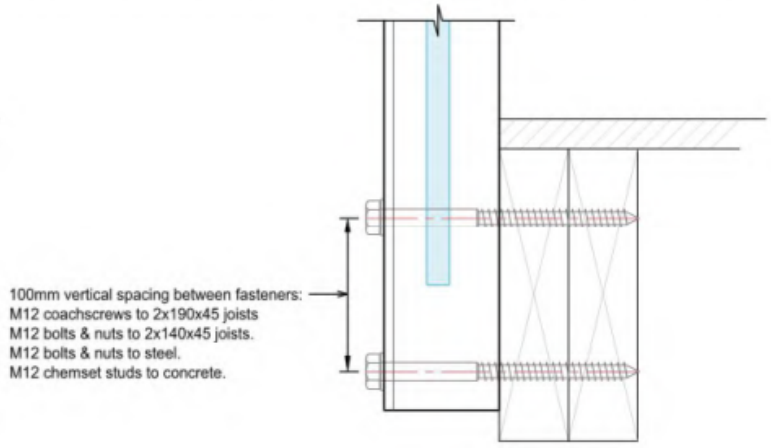


OB100/101 Structural End Post

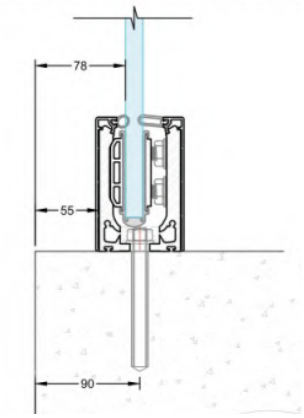
Metroview Channel Side Fix



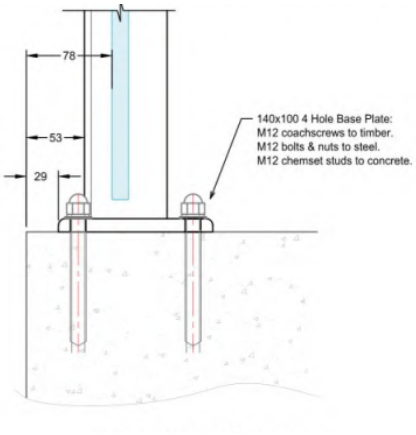
OB101 Frameless Post Extrusion Side Fix Post as an end Post.



Metroview Channel Base Fix



OB100 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