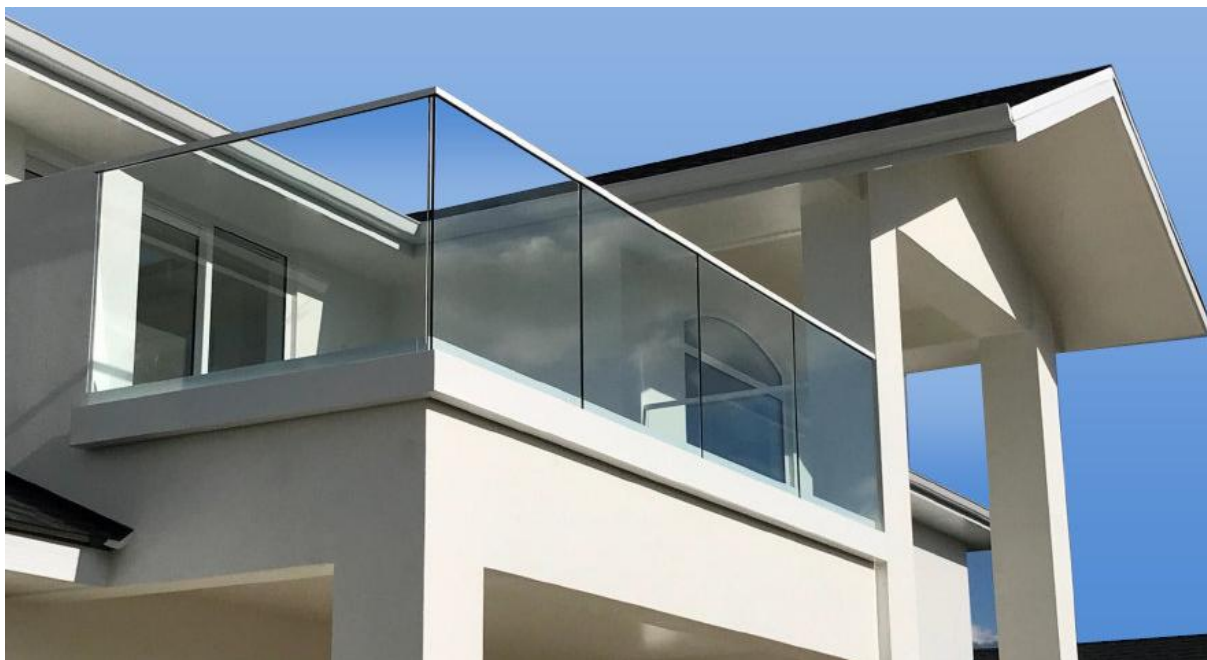




VISTA FRAMELESS CHANNEL



"THE CHOICE IS CLEAR"



CONTENTS

1. Product Introduction
2. General Notes
3. Clamp Section
4. Clamp Elevation
5. Connection Type 1 – Steel Deck
6. Connection Type 2 – Concrete Deck
7. Connection Type 3 – Timber Deck with Coach Screws
8. Connection Type 3 – Timber Deck with Coach Screws
9. Connection Type 3 – Timber Deck with Bolt
10. Vista Frameless Channel Typical Clamp Layouts

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COMMERCIAL & RESIDENTIAL BALUSTRADE DESIGN



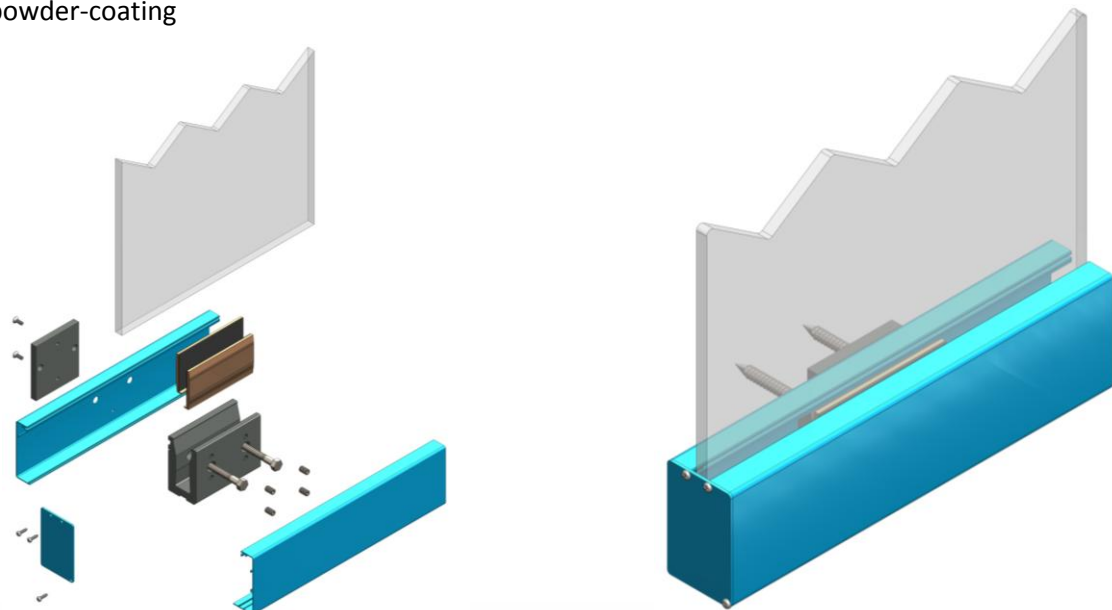
Semi Frameless Glass Balustrade

Description:

Provista Balustrade Systems Vista Frameless Glass balustrade system features a modern aluminum channel design suiting both classic and contemporary building design. The channel is a face-fixed design providing an ultra-clean look with completely hidden fixings. The channel can accept 12mm and 15mm toughened safety glass as well as 13.52mm laminated safety glass. An interlinking rail is available for balustrade applications using 12mm glass which is available in a stainless steel or powder-coated finish.

Key Features:

- Designed for residential and commercial applications including apartment balconies and decks
- Suitable for both interior or exterior applications, including pool fencing and gates
- Hidden-fixings for an ultra-clean look
- Choice of 12mm or 15mm toughened or 13.52mm toughened laminated safety glass
- Designed for all building structures including timber, concrete and steel
- T6 Temper Grade alloy used for all profiles, providing approx. 20% increased strength over typical grades
- Multiple finish options – can be powder-coated or anodised in all available NZ colours, including Dulux Duratec powder coating for high-corrosion zones
- National design service to assist with project specific design and detailing
- National network of fabricators and installers
- Complies with AS/NZS 1170, NZS3603, AS/NZS 1664, AS/NZS 2208 and NZS 4223.3 2016
- 5 year warranty on balustrade, 10 year warranty on Dulux Duralloy powder-coating, 20 year warranty on Dulux Duratec powder-coating



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Scope of Use:

The Vista Channel solution is designed to comply with A, B, E and C3 loadings for residential and commercial occupancy types and is suitable for decks, balconies, stairways, pool fences and gates.

Suitable building structures can be timber, concrete, steel and typical combinations of each. A stainless steel interlinking rail is available for 12mm glass applications, affixed directly to the top edge of the glass. The rail can also be supplied in a powder-coated finish which could be the same as that of the channel covers or in a contrast colour.

Address or Site-specific design and Producer Statements can be arranged as required.

Limitations on Use:

- The Vista Channel solution should only be used in accordance with the Provista Technical Manual. The Manual confirms installation requirements and fixing methods available
- Not suitable for Commercial Occupancy Type C5
- 1st Grade Toughened Safety Glass must be minimum 100Mpa
- Specified for use in Extra High Wind Zones. Site Specific PS1's and Calculations can be provided should the project require it.
- For high corrosion zones use Dulux Duratec powder-coating

NZS 3604 MAXIMUM SUITABILITY



Very High Wind Zone

In-service History:

Provista has over 10 years of balustrade and pool fence design, development and installation experience across New Zealand. Provista products are designed and manufactured for NZ conditions. Many kilometres of Provista balustrade and pool fence solutions have been installed across the length and breadth of NZ

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Statement of Building Code Compliance:

- Provista Balustrade Systems solutions have been designed and tested by independent engineers to comply with:
 - o AS/NZS 1170 Structural Design Actions
 - o NZS3603 Timber Structures Standard
 - o AS/NZS 1664 Aluminium Structures – allowable stress design
 - o AS/NZS 2208 Safety Glazing Materials in Buildings
 - o NZS 4223.3 2016 Glazing in Buildings – Human Impact Safety Requirements
- The Vista Frameless solution is designed for Occupancy A, B, E and C3
- Designs are engineered to comply with B1, B2, F2 and F4 of the NZ Building Code
- For applications outside of the Provista Product Technical Statement specifications, a Site Specific PS1 can be prepared upon request

NZBC DESIGNED TO COMPLY

B1

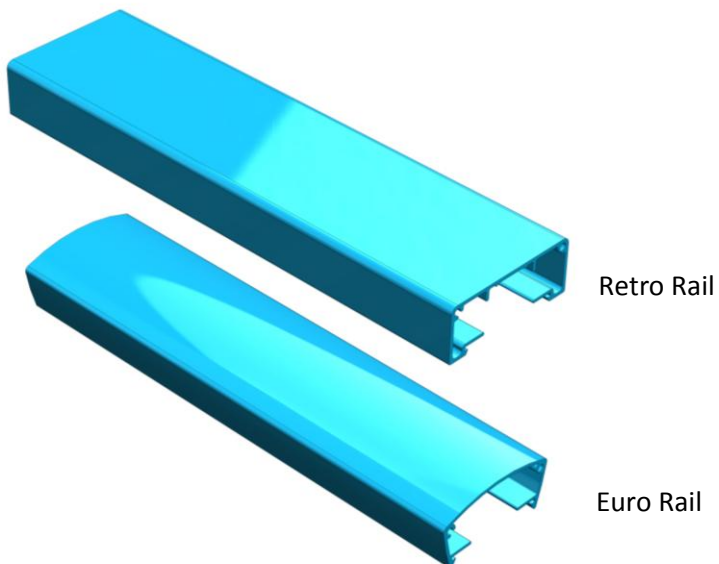
B2

F2

F4

Structure Durability Hazardous Materials Safety From Falling

Choice of Continuous Interlinking Stainless or Aluminum handrail profile options



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General Notes

GENERAL NOTE:

- (1) THE BALUSTRADE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTS AND ENGINEERS DRAWINGS.
 - (2) ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE AGAINST THE ARCHITECTS AND ENGINEERS DRAWINGS PRIOR TO COMMENCING WORK - ANY VARIATIONS OR DISCREPANCIES ARE TO BE REFERRED TO THE CONSULTANT FOR RESOLUTION.
 - (3) ALL WORK IS TO COMPLY WITH THE NZ BUILDING CODE.
 - (4) REMOVE ALL EXCESS MATERIALS AND RUBBISH FROM SITE AND REINSTATE ANY DAMAGE ON COMPLETION OF WORK.
 - (5) THE CONSULTANTS ARE TO BE GIVEN 24 HOURS NOTICE FOR ANY SITE INSPECTIONS AS REQUIRED - A PS4 CANNOT BE PROVIDED (PRODUCER STATEMENT FOR CONSTRUCTION REVIEW) IF THE CONSULTANT IS NOT INFORMED OF AND INSPECTS ANY WORK REQUIRING A SPECIFIC INSPECTION AS REQUIRED BY THE LOCAL TERRITORIAL AUTHORITY.
 - (6) THE BALUSTRADE HAS BEEN DESIGNED BASED ON RESIDENTIAL OCCUPANCY A, A(OTHER), OR C3, AND COMMERCIAL OCCUPANCY B, E AND C3 OF TABLE 3.3 AS/NZS 117 REFER TO GLASS MANUFACTURERS R NZS3604:2011.
 - (7) THE MAXIMUM BALUSTRADE HEIGHT 1300MM.
 - (8) FOR BALUSTRADE HEIGHT ABOVE FINISHED FLOOR LEVEL UP TO 1200MM, THE CLAMPS ARE TO BE SPACED AT MAX. 500MM CRS. TOUGHENED GLASS TO BE DESIGNED BY OTHERS. THE MAXIMUM DISTANCE FROM SIDE EDGE OF GLASS TO FIXINGS IS 250MM.
 - (9) FOR BALUSTRADE HEIGHT ABOVE FINISHED FLOOR LEVEL UP TO 1300MM, THE CLAMPS ARE TO BE SPACED AT MAX. 400MM CRS. TOUGHENED GLASS TO BE DESIGNED BY OTHERS. THE MAXIMUM DISTANCE FROM SIDE EDGE OF GLASS TO FIXINGS IS 200MM.
 - (10) THE MAXIMUM DISTANCE FROM THE FINISHED FLOOR LEVEL TO THE DECK FASTENER IS 100MM.
- DETAILS OF THE NEW STAINLESS STEEL BALUSTRADE AND GLASS FENCE/HANDRAIL:
- (3) ALL BOLTS AND COACH SCREWS CLASS 30 AND BRACKETS ARE TO BE 316 STAINLESS STEEL.
 - (4) ALL CHEMSET CONCRETE ANCHORS TO BE CLASS 80 STAINLESS STEEL AND FIXED TO MANUFACTURER'S SPECIFICATION.
 - (5) ALL COACH SCREWS ARE TO BE INSTALLED WITH HILTI HIT RE - 500 EPOXY AS PER MANUFACTURERS SPECIFICATION. THE DIAMETER OF DRILL BIT SHOULD BE BETWEEN 2 TO 6MM LARGER THAN THE FASTENER OUTSIDE DIAMETER. BLOW OUT THE DUST AND WOOD CHIPS FROM DRILLING USING OIL-FREE AIR. HOLES SHOULD BE CLEANED JUST BEFORE SETTING THE FASTENER. HOLES MUST BE FREE OF ICE, OIL/GREASE AND OTHER CONTAMINANTS.
 - (6) THE MAXIMUM TIGHTENING TORQUE FOR COACH SCREWS SHOULD NOT EXCEED HALF THE TIGHTENING TORQUE PUBLISHED IN THE "INSTRUCTIONS FOR USE" OR IN THE "HILTI FASTENING TECHNOLOGY MANUAL (FTM)".
 - (7) PREVENT CONTACT BETWEEN ALL DISSIMILAR MATERIALS IE: GALVANISED STEEL AND ALUMINIUM BY SEPARATING WITH NEOPRENE WASHERS.
 - (8) ALL GLASS PANELS ARE TO BE TOUGHENED GLASS TO COMPLY WITH THE NZ BUILDING CODE AND CLAUSE 22.4.3 OF NZS4223.3:2016.
 - (9) TYPICAL GLASS SIZES ARE 12MM OR 15MM TOUGHENED GLASS REFER GLASS MANUFACTURERS SPECIFICATIONS FOR GLASS SIZING.
 - (10) ALL STRUCTURAL GLASS BARRIERS SAFEGUARDING A FALL OF 1000MM OR MORE REQUIRE INTERLINKING HANDRAIL AS PER CLAUSE 22.4.3 OF NZS 4223.3:2016 UNLESS SPECIFICALLY DESIGNED TO COMPLY WITH 22.4.3(C).
 - (11) ALL GLASS PANELS ARE TO BE SEATED ON NYLON WASHERS OR BUSHES AT ALL SUPPORT BRACKETS AND BOLTS.
 - (12) ALL SEALANTS ARE TO COMPLY WITH THE REQUIREMENTS FOR THE SPECIFIC USE INTENDED DURING CONSTRUCTION.
 - (13) A RUBBER, EPDM OR FOAM TAPE LAYER MUST BE INSTALLED BETWEEN THE CLAMP AND DECK.


EXISTING SUPPORT STRUCTURE:

- (1) THE EXISTING DECK, BALCONY OR PAVING STRUCTURE MUST HAVE BEEN CONSTRUCTED TO COMPLY WITH THE LOCAL TERRITORIAL AUTHORITY REGULATIONS AND REQUIREMENTS, THE NZ BUILDING CODE AND NZS 3604.
- (2) ALL STEELWORK IS TO BE PROTECTED AS REQUIRED BY THE NZ BUILDING CODE.
- (3) THE DESIGN OF CONCRETE, STEEL OR TIMBER SUPPORT FOR THE BALUSTRADE IS THE RESPONSIBILITY OF OTHERS.

NEW CONSTRUCTION NOTES:

- (1) THE EXISTING SUPPORTING STRUCTURE DETAILS ARE NOT COVERED BY THESE DRAWINGS.
- (2) THESE DRAWINGS ONLY COVER INSTALLATION

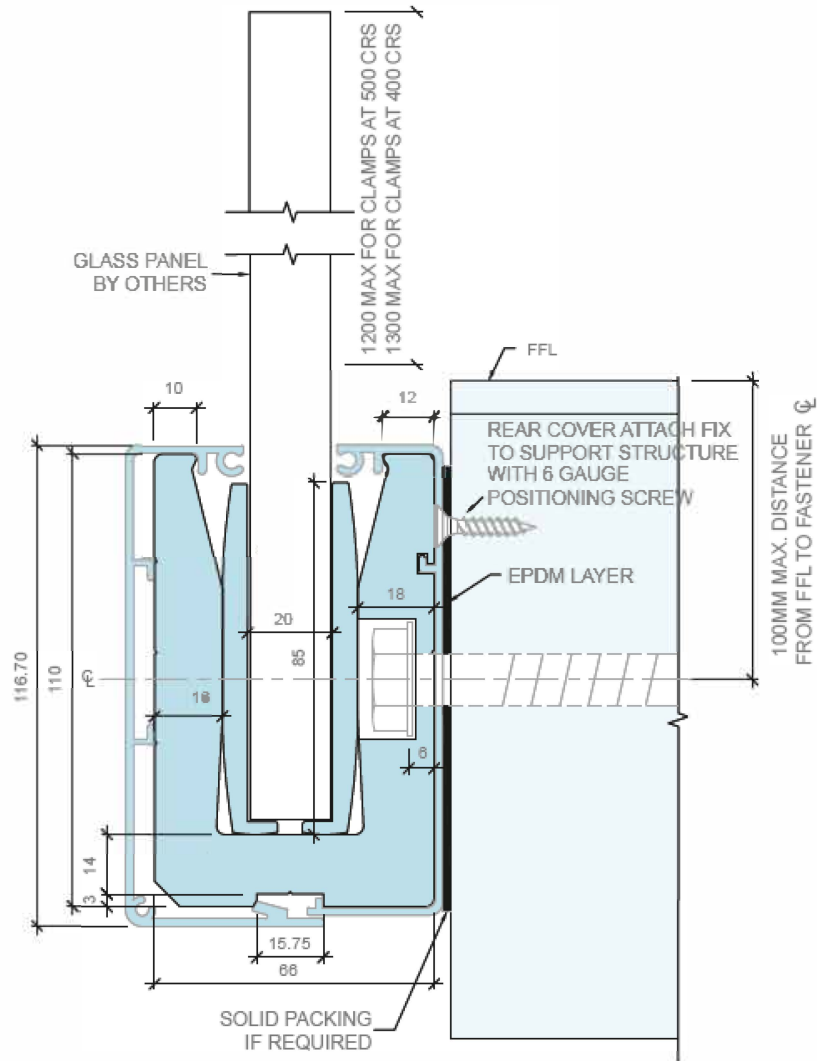
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VERIFIED BY: JOE CALLEJA	SIGNED: 	DATE: 10/09/20


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COMMERCIAL & RESIDENTIAL BALUSTRADE DESIGN

Clamp Section



Note: Refer to original drawing sheet no. S01

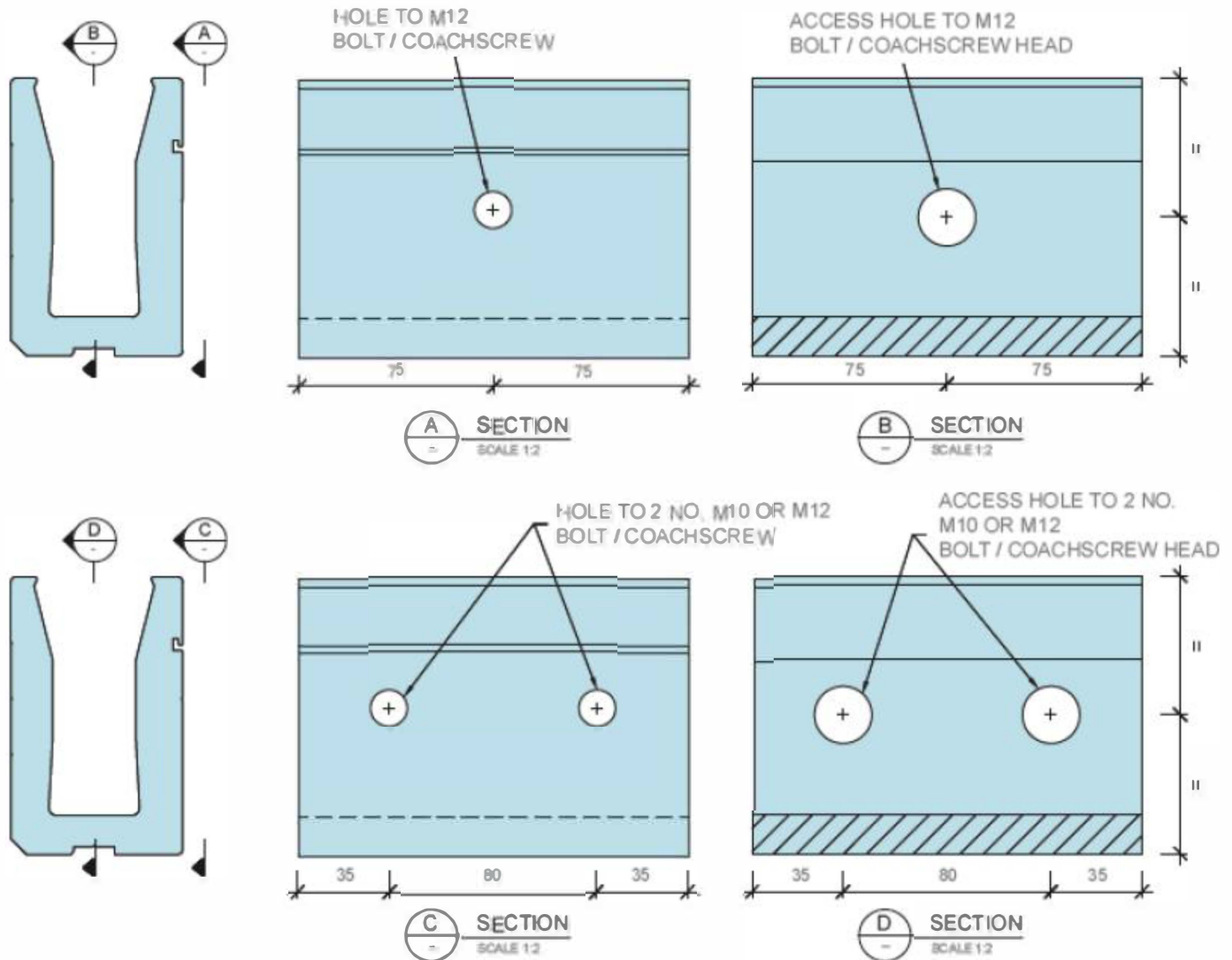
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VERIFIED BY: JOE CALLEJA	SIGNED: 	DATE: 10/06/20

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COMMERCIAL & RESIDENTIAL BALUSTRADE DESIGN

Clamp Elevation

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BALUSTRADE SYSTEMS



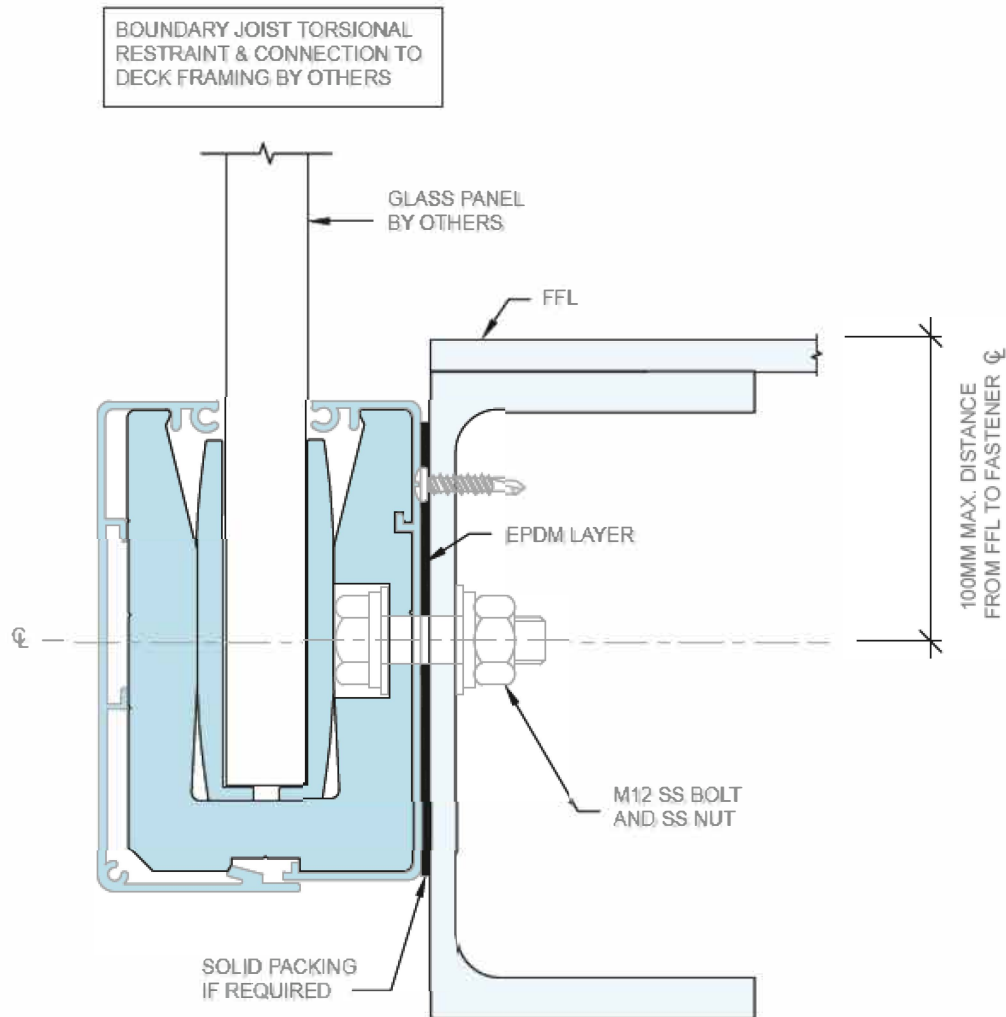
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
COMMERCIAL & RESIDENTIAL BALUSTRADE DESIGN

Connection Type 1 - Steel Deck



1 CONNECTION TYPE 1 - STEEL DECK
SCALE 1:2

Note: Refer to original drawing sheet no. S03

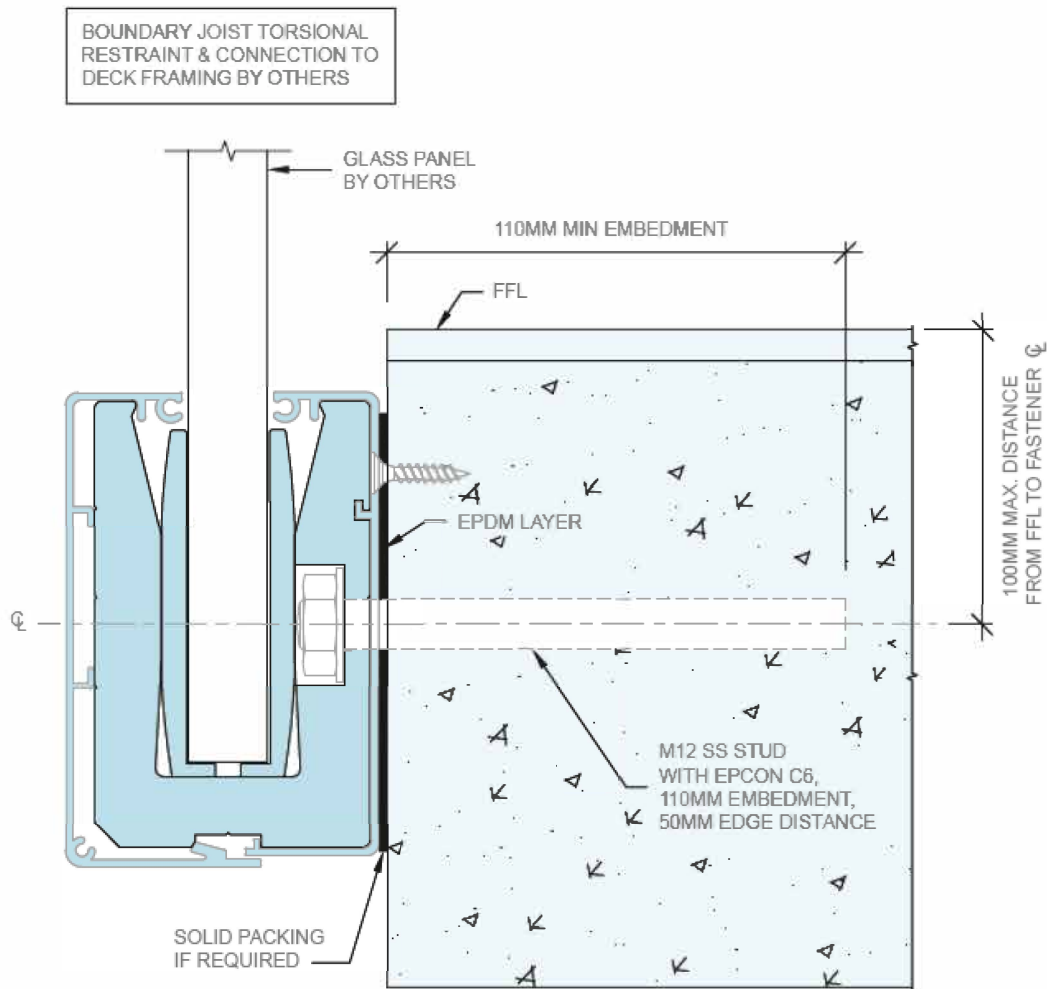
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VERIFIED BY: JOE CALLEJA	SIGNED: 	DATE: 10/06/20

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Connection Type 2 - Concrete Deck

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BALUSTRADE SYSTEMS



2 CONNECTION TYPE 2 - CONCRETE DECK
SCALE 1:2

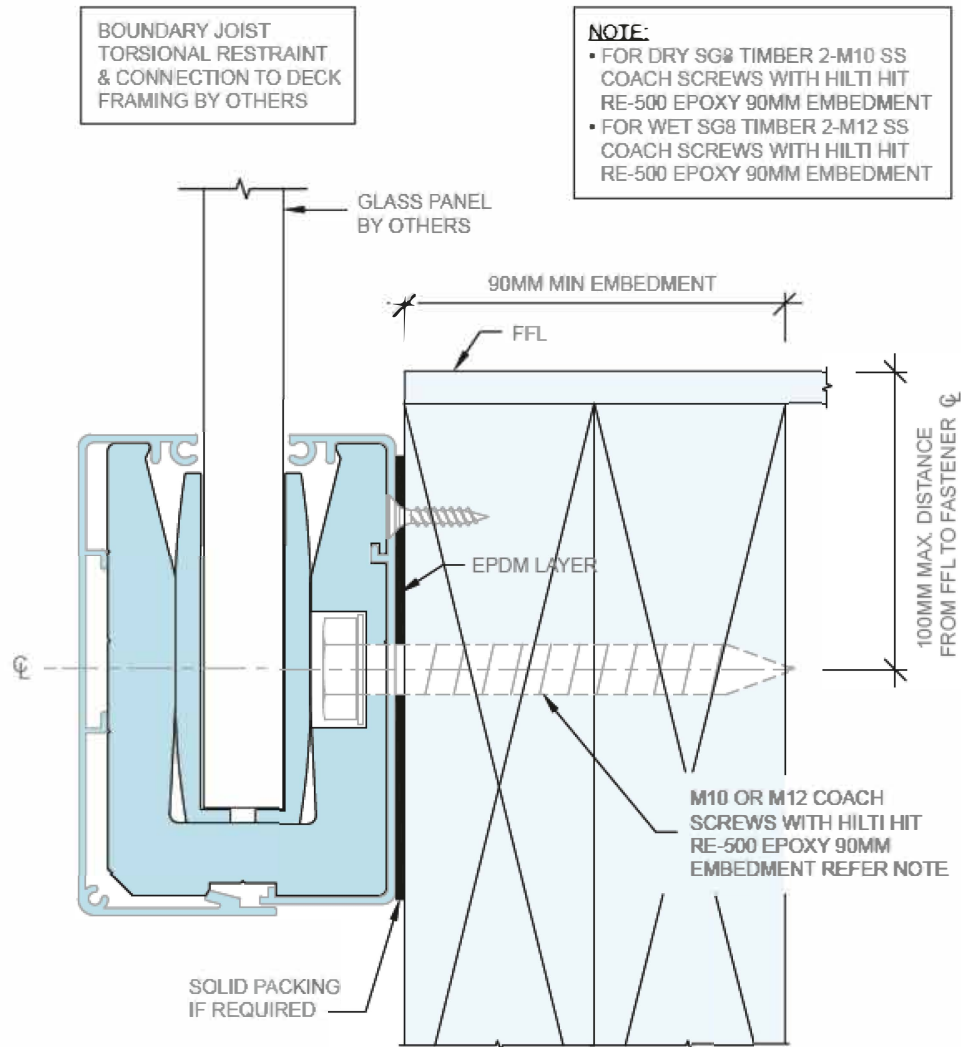
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Connection Type 3 - Timber Deck With Coach Screws



CONNECTION TYPE 3A - TIMBER DECK WITH COACH SCREWS

SCALE 1:2

Note: Refer to original
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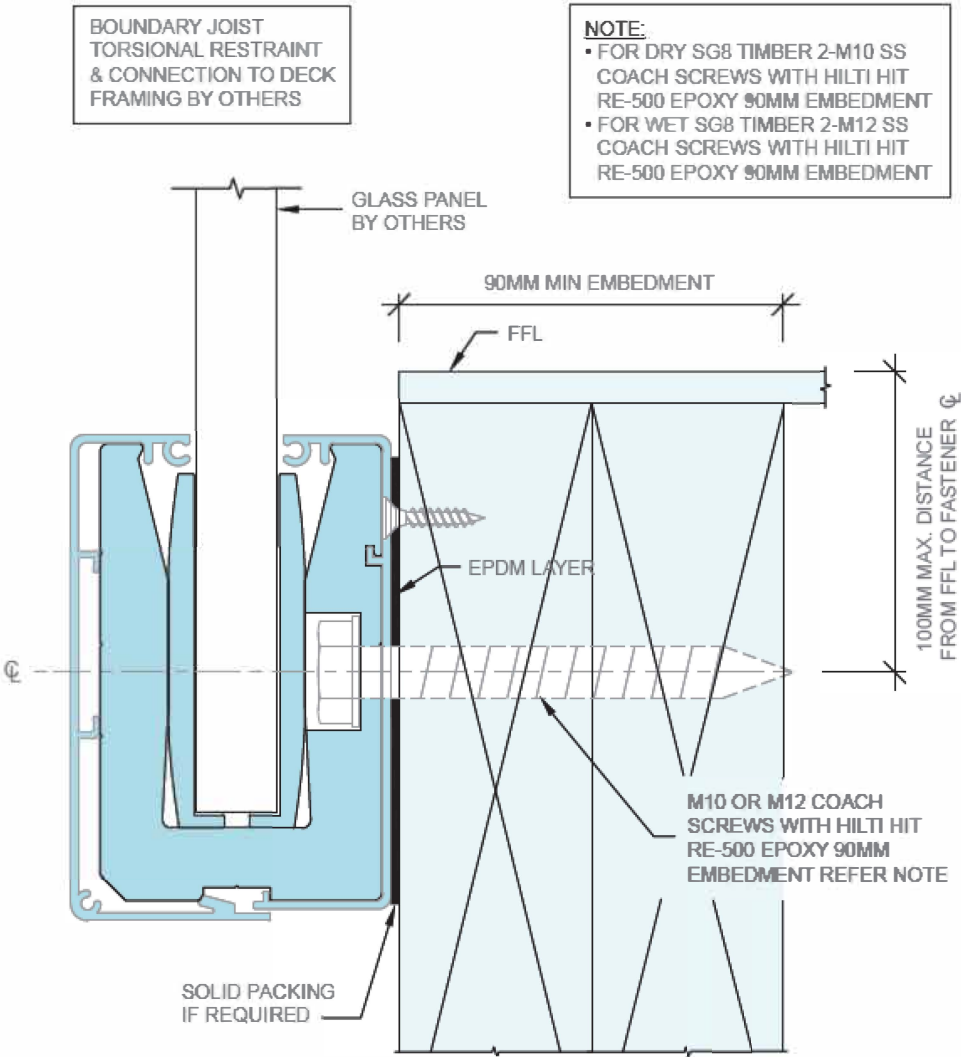
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VERIFIED BY: JOE CALLEJA	SIGNED: 	DATE: 10/09/20

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Connection Type 3 - Timber Deck With Coach Screws



3A CONNECTION TYPE 3A - TIMBER DECK WITH COACH SCREWS
SCALE 1:2

Note: Refer to original
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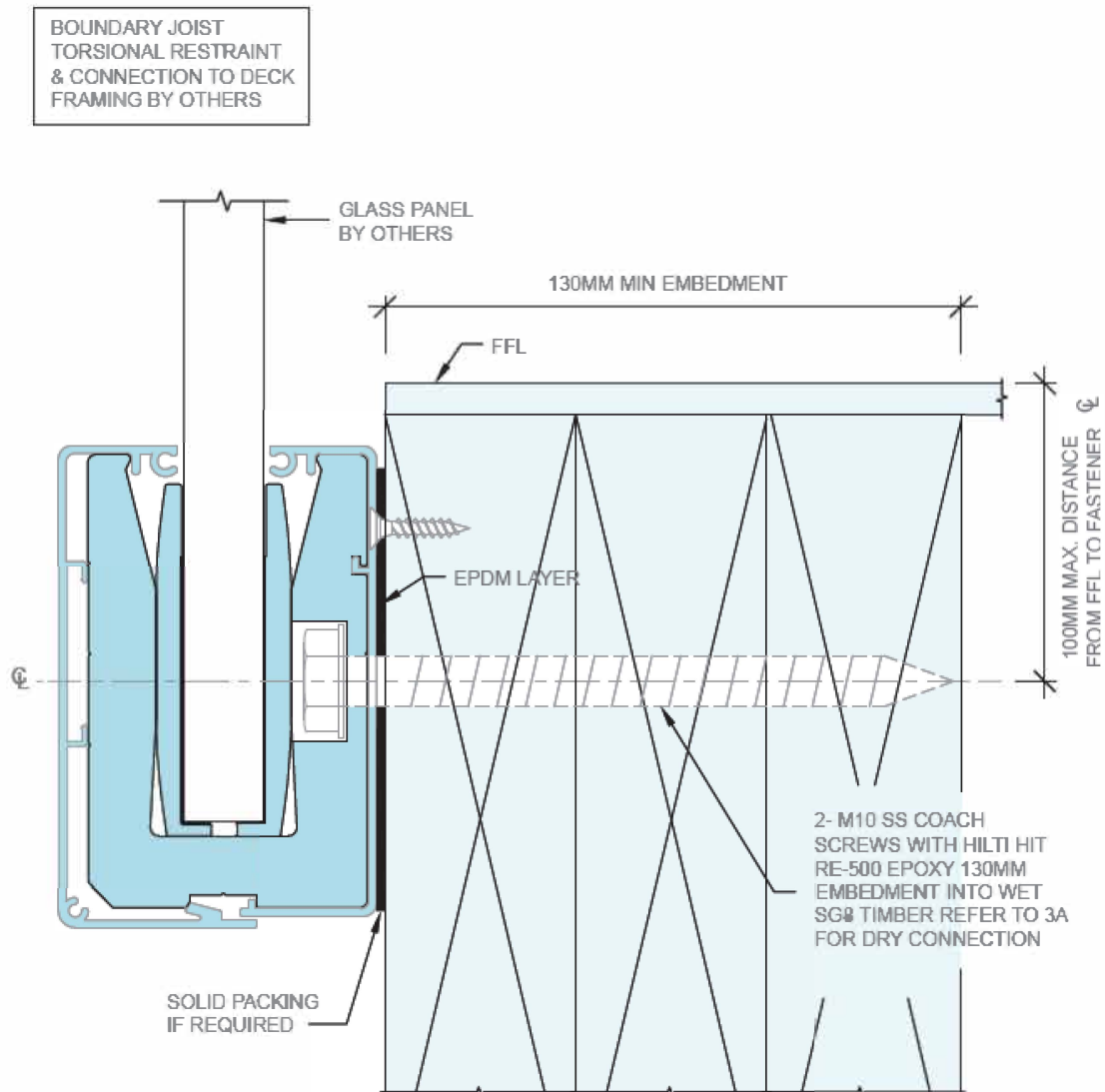
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Connection Type 3 - Timber Deck With Coach Screws



3B CONNECTION TYPE 3B - TIMBER DECK WITH COACH SCREWS
SCALE 1:2

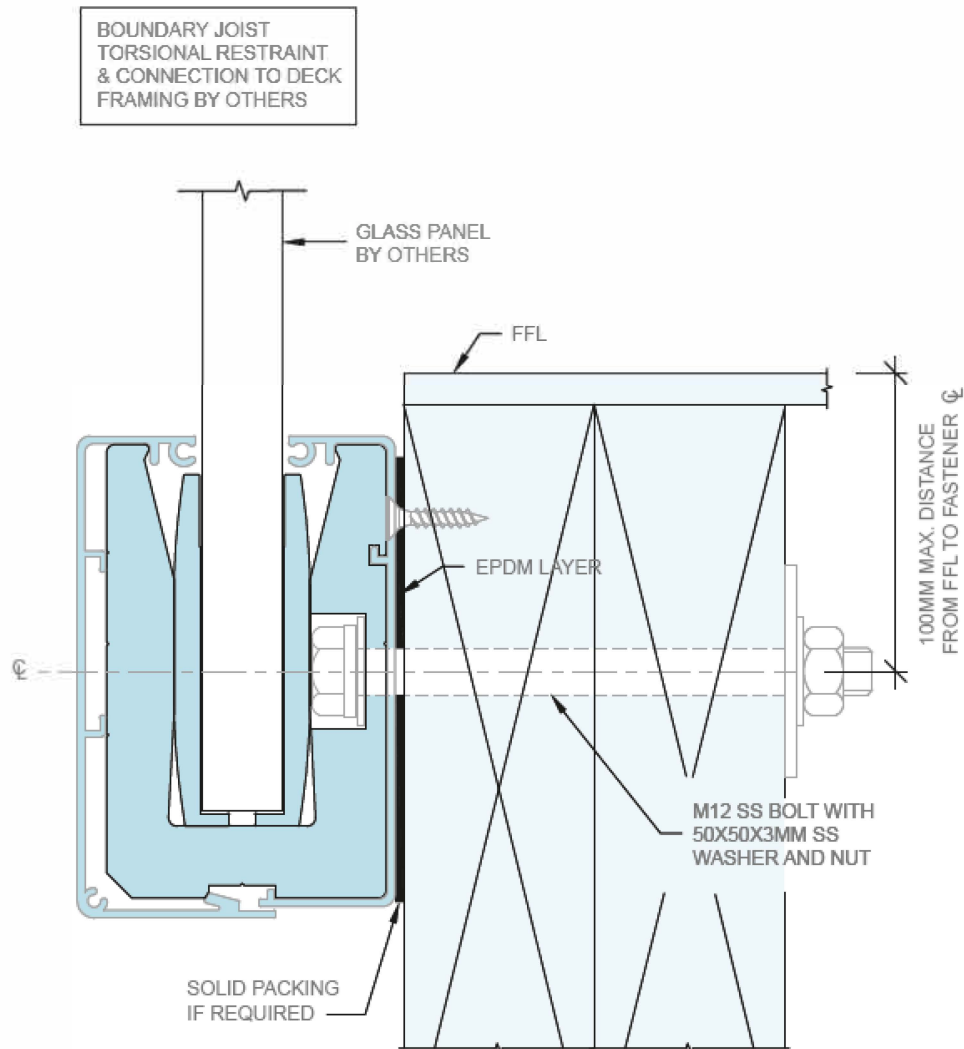
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COMMERCIAL & RESIDENTIAL BALUSTRADE DESIGN

Connection Type 3 - Timber Deck With Bolt



3C CONNECTION TYPE 3C - TIMBER DECK WITH BOLT
SCALE 1:2

Note: Refer to original
drawing sheet no. S05

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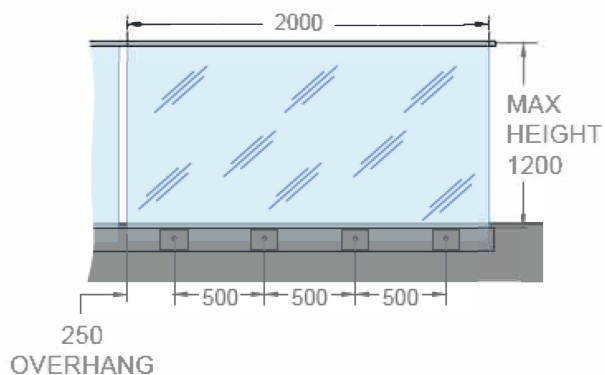
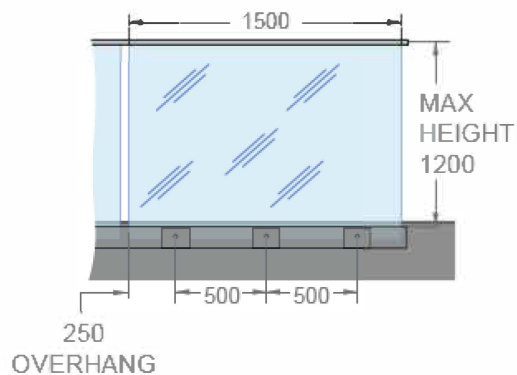
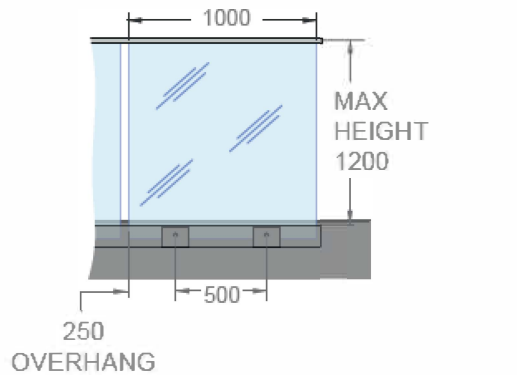
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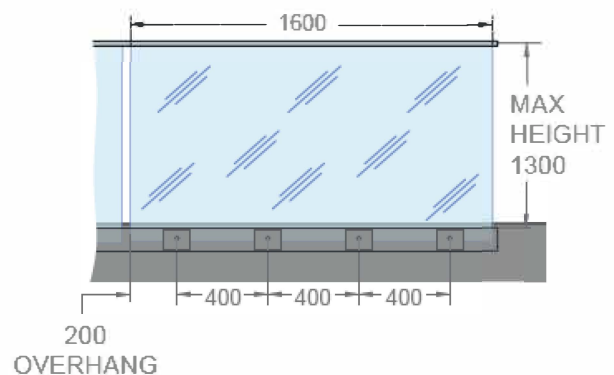
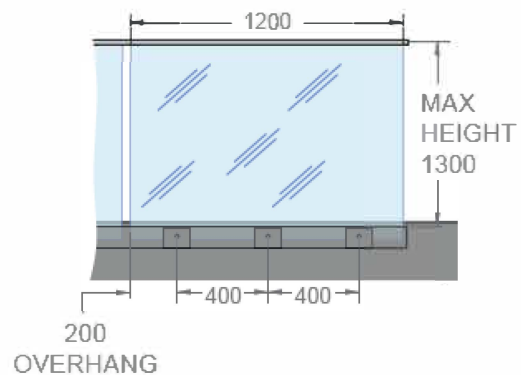
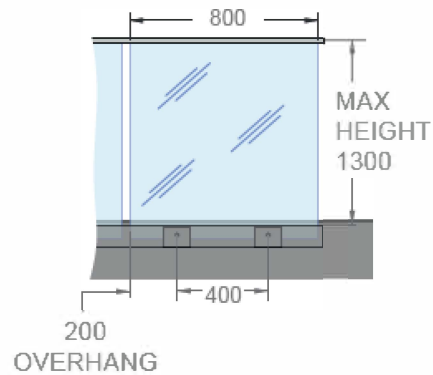
Vista Frameless Channel
Typical Glass Clamp Layouts

PROVISTA
BALUSTRADE SYSTEMS

● OCCUPANCY - RESIDENTIAL
A, C3 & POOL FENCE



OCCUPANCY - COMMERCIAL
B, E & C3



NOTE: ALL DIMENSIONS IN MILLIMETRES

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