

EURO SLAT BALUSTRADE & POOL FENCE







CONTENTS

- **1.** Product Introduction
- **2.** General Notes
- 3. Connection Type 1 Timber Side Fix (Coach Screws)
- **4.** Connection Type 2 Bolt Side-Fix
- **5.** Connection Type 3 Timber Top-Fix
- **6.** Connection Type 4 Timber Top-Fix
- **7.** Connection Type 5 Concrete Top-Fix
- **8.** Connection Type 6– Concrete Side-Fix
- 9. Gutter Bracket Timber and Concrete Fixing
- 10. Gutter Bracket Design
- **11.** Base Plate Design Semi Frameless
- **12.** Handrail Dimensions



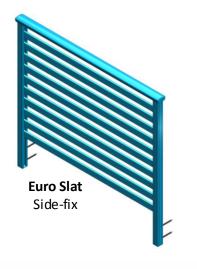
Euro Slat Balustrade & Pool Fence

Description:

Provista Balustrade Systems Aluminum Euro Slat product features a pleasing rectangular profile suiting both classic and contemporary building design. Provista Euro Slat is a versatile solution for deck and pool screening as well as garden and driveway gates. Sizes of screen panels and gaps between slats can be fabricated to suit the required design and completed panels are held within the rebates of our semi-frameless post profiles. As such a balustrade or pool fence can comprise a combination of semi-frameless glass and Euro Slat, tailored to the desired look. For deck balustrade applications, there's a choice of flat or rounded handrail profiles and the Euro Slat panel can either be full height finishing at underside of the handrail or a gap can be left for a different visual perspective.

Key Features:

- Designed for residential and commercial applications including apartment balconies and decks
- Suitable for both interior or exterior applications
- Hidden-fixings for face-fixed solutions
- Designed for all building structures including membrane decks
- T6 Temper Grade alloy used for all profiles, providing approx. 20% increased strength for greater post spacings
- 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





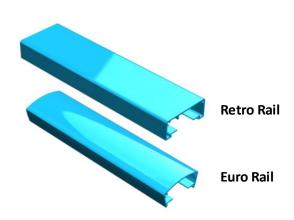
Scope of Use:

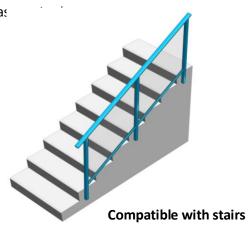
Provista Euro Slat solutions are designed to comply with A, B, E and C3 loadings for residential and commercial occupancy types and are suitable for decks, balconies, stairways, gates and landscape screening.

Suitable building structures can be timber, concrete, steel and typical combinations of each. Provista Euro Slat balustrade and pool fence solutions can also be used in conjunction with the Provista Gutter Bracket – a robust stainless steel product designed to be specified where membrane decks and gutters are required.

A rectangular ('Retro') handrail and rounded ('Euro') handrail options are available.

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





Limitations on Use:

- Provista Aluminium Euro Slat solutions should only be used in accordance with the Provista Technical Manual.
 The Manual confirms post spacings and fixing methods available
- Not suitable for Commercial Occupancy Type C5
- Specified for use in Very High Wind Zones but Site Specific PS1 and Calculations can be provided for Extreme Wind Zones
- 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. The Provista Euro Slat styles have been installed in thousands of homes, apartments, schools, aged care villages etc.

Many kilometers of Provista framed balustrade solutions are installed across the length and breadth of NZ

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
 - NZS3603 Timber Structures Standard
 - 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
- Euro Slat Aluminium solutions are 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 the Provista Technical Manual 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

Exclusive to Provista Balustrade Systems 53mm x 53mm Heavy duty Ultra 3 way post for unparalleled strength and versatility.



33142 Ultra post 53x53

PROVISTA BALUSTRADE SYSTEMS

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.

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 CONCRETE USED IS TO HAVE A CRUSHING STRENGTH OF 20 MPA AT 28 DAYS AND IS TO COMPLY WITH NZS 3109.
- (3) ALL WELDS ARE TO BE 5MM FILLET WELDS ALL ROUND UNLESS NOTED OTHERWISE ALL WELDING TO BE CARRIED OUT BY WELDERS QUALIFIED IN ACCORDANCE WITH NZS4711.
- (4) ALL BOLTS AND BRACKETS ARE TO BE HOT DIP GALVANISED UNLESS NZS 3604: 1999 CORROSION ZONE TABLES REQUIRE A BETTER PROTECTION.
- (5) ALL CHEMSET ANCHORS TO BE FIXED TO MANUFACTUR'S SPECIFICATION.
- (6) ALL STEELWORK IS TO BE PROTECTED AS REQUIRED BY THE NZ BUILDING CODE.

NEW CONSTRUCTION NOTES:

- THE EXISTING SUPPORTING STRUCTURE DETAILS ARE NOT COVERED BY THESE DRAWINGS.
- (2) THESE DRAWINGS ONLY COVER INSTALLATION DETAILS OF THE NEW STAINLESS STEEL BALUSTRADE AND GLASS FENCE/HANDRAIL.
- (3) ALL BOLTS CLASS 80 AND BRACKETS ARE TO BE 316 STAINLESS STEEL.
- (4) ALL DYNABOLTS OR CHEMSET CONCRETE ANCHORS TO BE CLASS 80 STAINLESS STEEL AND FIXED TO MANUFACTURER'S SPECIFICATION.
- (5) ALL DAMAGE TO EXISTING STRUCTURE CAUSED BY CONSTRUCTION TO BE REINSTATED.
- (6) PREVENT CONTACT BETWEEN ALL DISSIMILAR MATERIALS IE: GALVANISED STEEL AND ALUMINIUM BY SEPARATING WITH NEOPRENE WASHERS.
- (7) ALL GLASS PANELS ARE TO BE TOUGHENED GLASS TO COMPLY WITH THE NZ BUILDING CODE.
- (8) ALL GLASS PANELS ARE TO BE SEATED ON NYLON WASHERS OR BUSHES AT ALL SUPPORT BRACKETS AND BOLTS.
- (9) ALL SEALANTS ARE TO COMPLY WITH THE REQUIREMENTS FOR THE SPECIFIC USE INTENDED DURING CONSTRUCTION.



DRAWING SHEET #: S13

REVISION:

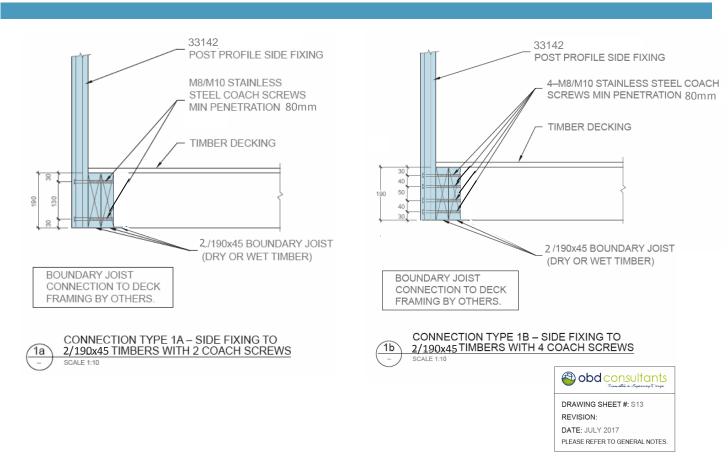
DATE: JULY 2017

PLEASE REFER TO GENERAL NOTES.



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 1 – Timber Side-Fix 2 x 190x45 (Coach Screws)



Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

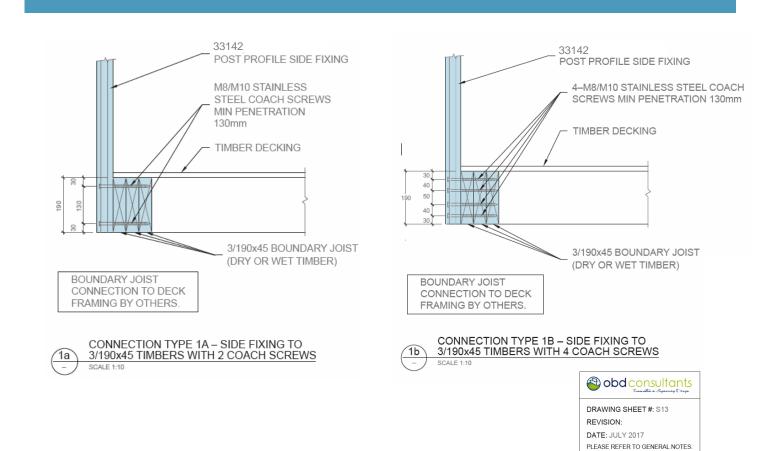
| Balustrade Height | | | Maximum Post Spacing (M) Type 1a & 1b ing Coach Screw with HIT-RE 500 Epoxy Side Fixing to Timber Deck pe 2/190x45 Boundary Joist | | | | | |
|----------------------|-------------|-------|---|------|------|------|--|--|
| | | | 2/M10 | 4/M8 | | M10 | | |
| 104 | 22442 114 | C: da | Dry | Dry | Dry | Wet | | |
| 1M | 33142 Ultra | Side | 0.80 | 0.90 | 1.10 | 0.85 | | |
| 1.1M | 33142 Ultra | Side | 0.80 | 0.80 | 1.00 | 0.80 | | |
| 1.2M | 33142 Ultra | Side | - | - | 0.85 | - | | |
| 1.3M | 33142 Ultra | Side | - | - | - | - | | |
| 1.4M | 33142 Ultra | Side | - | - | - | - | | |
| 1.5M | 33142 Ultra | Side | - | - | - | | | |
| 1.6M | 33142 Ultra | Side | - | - | - | - | | |
| 1.7M | 33142 Ultra | Side | - | - | - | - | | |
| 1.8M | 33142 Ultra | Side | - | - | - | - | | |

The above table summarises the maximum balustrade postspacing that can be achieved based on balustrade poststrength and connection strengths for coach screws with Hilti HIT-RE Epoxy.



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 1 – Timber Side-Fix 3 x 190x45 (Coach Screws)



Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

| | | | | | Maxi | mum Post | Spacing (I | M) | | |
|------------|--------------|--------|--------------|---------|------|------------|------------|--------------|-------------|--|
| | | | Type 1a & 1b | | | | | | | |
| Balustrade | Post Section | Fixing | Coach | Screw w | | | | xing to Timb | er Deck | |
| Height | Model | Туре | | | 3/1 | .90x45 Bou | | | | |
| | | | 2/M8 | 2/1 | /110 | 4/N | /18 | 4/1 | VI10 | |
| | | | Dry | Dry | Wet | Dry | Wet | Dry | Wet | |
| 1M | 33142 Ultra | Side | 0.95 | 1.15 | 0.90 | 1.30 | 1.00 | 1.45 | 1.25 | |
| 1.1M | 33142 Ultra | Side | 0.85 | 1.05 | 0.80 | 1.20 | 0.90 | 1.30 | 1.15 | |
| 1.2M | 33142 Ultra | Side | 0.70 | 0.90 | | 1.05 | 0.80 | 1.10 | 1.00 | |
| 1.3M | 33142 Ultra | Side | - | 0.85 | | 1.05 | - | 1.20 | 0.80 | |
| 1.4M | 33142 Ultra | Side | - | 0.80 | | 0.95 | - | 1.10 | 0.75 | |
| 1.5M | 33142 Ultra | Side | - | 0.70 | | 0.85 | - | 0.95 | - | |
| 1.6M | 33142 Ultra | Side | - | - | | 0.75 | - | 0.85 | - | |
| 1.7M | 33142 Ultra | Side | - | - | | - | - | 0.75 | - | |
| 1.8M | 33142 Ultra | Side | - | - | | - | - | - | - | |

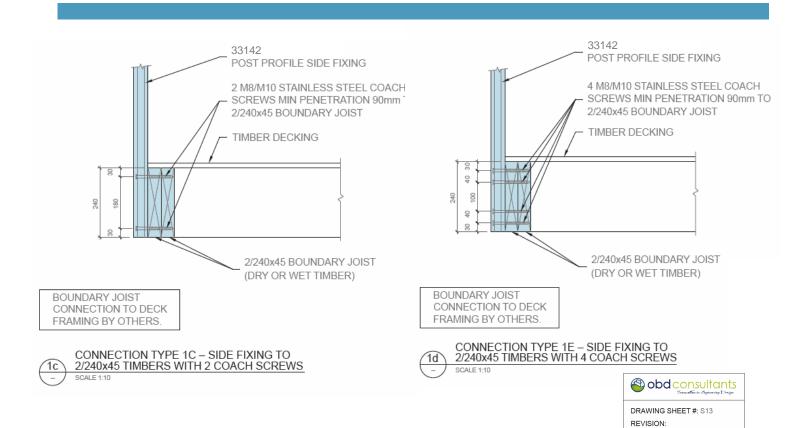
The above table summarises the maximum balustrade posts pacing that can be achieved based on balustrade posts trength and connection strengths for coach screws with Hilti HIT-RE Epoxy.



DATE: JULY 2017 PLEASE REFER TO GENERAL NOTES.

EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 1 – Timber Side-Fix 2 x 240x45 (Coach Screws)



Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind Zone Across New Zealand

| Balustrade Post Section Height Model | | Fixing Type | Maximum Post Spacing (M) Type 1c & 1d Coach Screw with HIT-RE 500 Epoxy Side Fixing to Timber 2/240x45 Boundary Joist | | | | | | Deck |
|---|-------------|----------------|--|------|------|------|------|-------|------|
| | | | 2/M8 | | | 4/M8 | | 4/M10 | |
| | | | Dry | Dry | Wet | Dry | Wet | Dry | Wet |
| 1M | 33142 Ultra | Side | 0.90 | 1.10 | 0.85 | 1.40 | 1.10 | 1.45 | 1.35 |
| 1.1M | 33142 Ultra | Side | 0.80 | 0.85 | 0.80 | 1.25 | 1.00 | 1.30 | 1.25 |
| 1.2M | 33142 Ultra | Side | - | 0.85 | - | 1.00 | 0.85 | 1.10 | 1.05 |
| 1.3M | 33142 Ultra | Side | - | 0.80 | - | 1.10 | 0.80 | 1.20 | 0.90 |
| 1.4M | 33142 Ultra | Side | - | 0.75 | - | 1.05 | 0.75 | 1.10 | 0.80 |
| 1.5M | 33142 Ultra | Side | - | - | - | 0.90 | - | 0.95 | 0.70 |
| 1.6M | 33142 Ultra | Side | - | - | - | 0.80 | - | 0.85 | - |
| 1.7M | 33142 Ultra | Side | - | - | - | 0.70 | - | 0.75 | - |
| 1.8M | 33142 Ultra | Side | - | - | - | - | - | 0.65 | - |

The above table summarises the maximum balustrade post spacing that can be achieved based on balustrade post strength and connection strengths for coach screws with Hilti HIT-RE Epoxy.

The above table summarises the maximum balustrade post spacing that can be achieved based on balustrade post strength

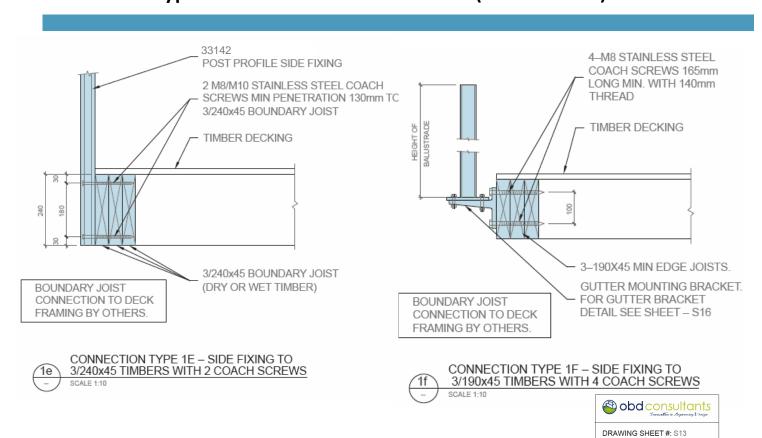


REVISION: DATE: JULY 2017

PLEASE REFER TO GENERAL NOTES.

EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 1 - Timber Side-Fix 3 x 240x45 (Coach Screws)



Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

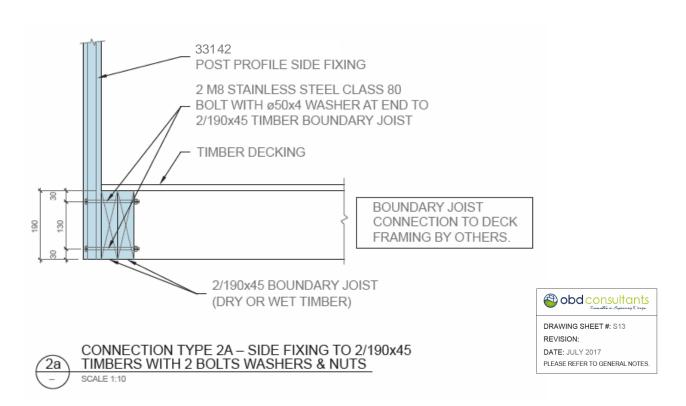
| | | | | IV | laximum Po | ost Spacing | g (M) | | | | |
|------------|--------------|--------|--|----------------------|------------------------------|-------------|---------------------|------|--|--|--|
| | | | Type 1 | | | | | | | | |
| Balustrade | Post Section | Fixing | Coach Screw with HIT-RE 500 Epoxy Side Fixing to Timber Deck | | | | | | | | |
| Height | Model | Type | 3/ | ^{240x45} Bo | 3 x 190x45 Boundary joist | | | | | | |
| | | | 2/1 | 2/M8 2/N | | 110 | 4/M8 Gutter Bracket | | | | |
| | | | Dry | Wet | Dry | Wet | Dry | Wet | | | |
| 1M | 33142 Ultra | Side | 1.30 | 1.00 | 1.30 | 1.25 | 1.30 | 1.00 | | | |
| 1.1M | 33142 Ultra | Side | 1.20 | 0.90 | 1.30 | 1.15 | 1.20 | 0.90 | | | |
| 1.2M | 33142 Ultra | Side | 1.00 | 0.80 | 1.10 | 1.00 | 1.00 | 0.80 | | | |
| 1.3M | 33142 Ultra | Side | 1.05 | - | 1.15 | 0.80 | - | - | | | |
| 1.4M | 33142 Ultra | Side | 0.95 | - | 1.10 | 0.75 | - | - | | | |
| 1.5M | 33142 Ultra | Side | 0.85 | - | 0.95 | - | - | - | | | |
| 1.6M | 33142 Ultra | Side | 0.75 | - | 0.85 | - | - | - | | | |
| 1.7M | 33142 Ultra | Side | - | | | - | - | - | | | |
| 1.8M | 33142 Ultra | Side | - | | | - | - | - | | | |

The above table summarises the maximum balustrade post spacing that can be achieved based on balustrade post strength and connection strengths for coach screws with Hilt-RE Epoxy.



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 2 - Bolt Side-Fix 2 x 190x45



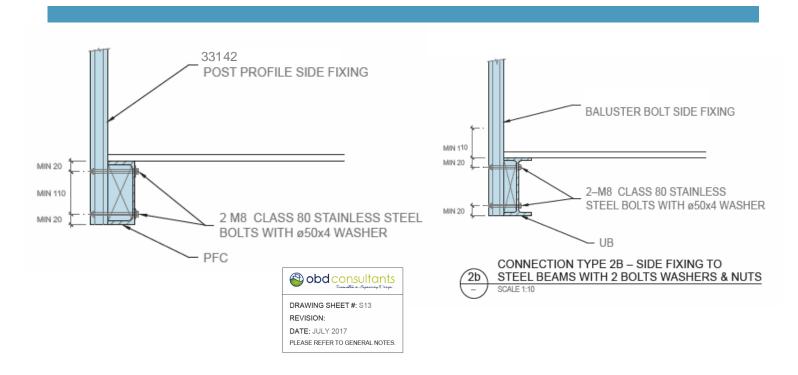
Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

| | | | Maximum Post Spacing (M) |
|------------|--------------------|-------------|---------------------------------------|
| Balustrade | Doot Coation Model | | Type 2 |
| Height | Post Section Model | Fixing Type | Bolt side fixing to timber 2 x 190x45 |
| | | | 2/M8 |
| 1M | 33142 Ultra | Side | 1.45 |
| 1.1M | 33142 Ultra | Side | 1.30 |
| 1.2M | 33142 Ultra | Side | 1.20 |
| 1.3M | 33142 Ultra | Side | 1.20 |
| 1.4M | 33142 Ultra | Side | 1.10 |
| 1.5M | 33142 Ultra | Side | 0.95 |
| 1.6M | 33142 Ultra | Side | 0.85 |
| 1.7M | 33142 Ultra | Side | 0.75 |
| 1.8M | 33142 Ultra | Side | 0.65 |



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 2 – Bolt Side Fix Steel Beam



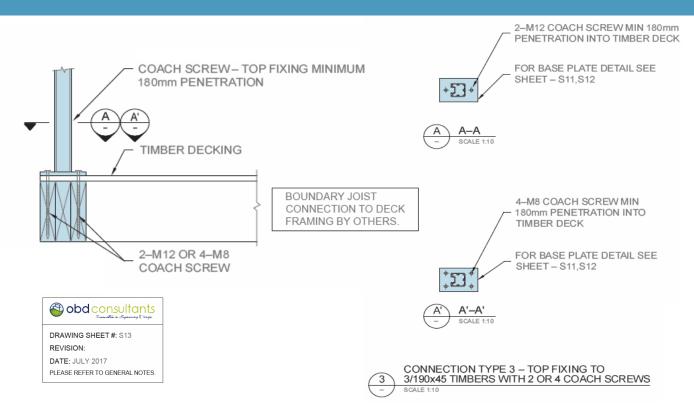
Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

| | | | Maximum Post Spacing (M) |
|----------------------|--------------------|-------------|----------------------------------|
| Balustrade Height | Post Section Model | Fixing Type | Type 2 Bolt Side Fix Steel Beam |
| | | | 2/M8 |
| 1M | 33142 Ultra | Side | 1.45 |
| 1.1M | 33142 Ultra | Side | 1.30 |
| 1.2M | 33142 Ultra | Side | 1.20 |
| 1.3M | 33142 Ultra | Side | 1.20 |
| 1.4M | 33142 Ultra | Side | 1.10 |
| 1.5M | 33142 Ultra | Side | 0.95 |
| 1.6M | 33142 Ultra | Side | 0.85 |
| 1.7M | 33142 Ultra | Side | 0.75 |
| 1.8M | 33142 Ultra | Side | 0.65 |



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 3 – Timber Top-Fix



Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

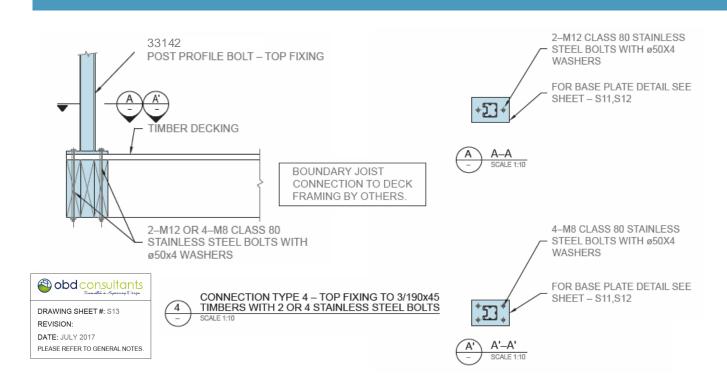
| | | | | Maximum Post | Spacing (M) | | | |
|-----------|--------------|----------------|-------------|----------------------|------------------|-------------|--|--|
| Balustrad | Post Section | et to a | Type 3 | | | | | |
| e Height | Model | Fixing Type | Coach Screw | with HIT-RE 500 Epox | ky Top Fixing to | Timber Deck | | |
| e neight | | .,,,,, | | 4/M8 | 2/N | 112 | | |
| | | | Dry | Wet | Dry | Wet | | |
| 1M | 33142 Ultra | Тор | 1.45 | 1.45 | 1.45 | 1.20 | | |
| 1.1M | 33142 Ultra | Тор | 1.30 | 1.30 | 1.30 | 1.10 | | |
| 1.2M | 33142 Ultra | Тор | 1.20 | 1.20 | 1.20 | 1.00 | | |
| 1.3M | 33142 Ultra | Тор | 1.10 | 1.10 | 1.10 | 0 | | |
| 1.4M | 33142 Ultra | Тор | 1.10 | 1.10 | 1.10 | - | | |
| 1.5M | 33142 Ultra | Тор | 1.00 | 1.00 | 1.00 | - | | |
| 1.6M | 33142 Ultra | Тор | 0.90 | 0.90 | 0.90 | - | | |
| 1.7M | 33142 Ultra | Тор | 0.80 | 0.80 | - | - | | |
| 1.8M | 33142 Ultra | Тор | 0.70 | - | - | - | | |

The above table summarises the maximum balustrade post spacing that can be achieved based on balustrade post strength and connection strengths for coach screws with Hilti HIT-RE Epoxy.



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 4- Timber Top-Fix



Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

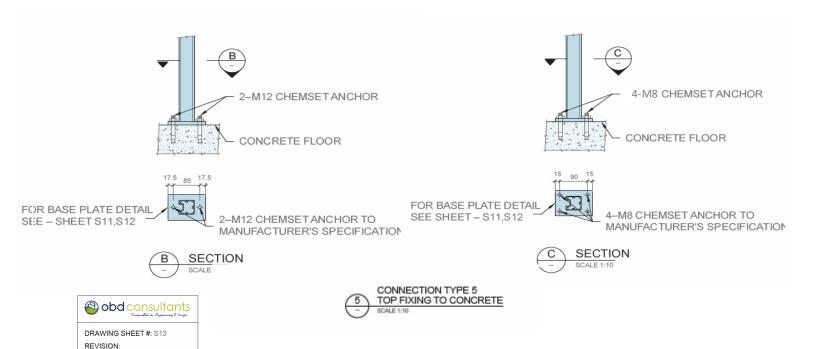
| | | | Maximum Post Spacing (M) | | | | |
|-----------|--------------|--------|--------------------------|-------------|--|--|--|
| Balustrad | Post Section | Fixing | Type 4 | | | | |
| e Height | Model | Type | Bolt Top Fixing 1 | limber Deck | | | |
| Cheight | Model | Турс | 4/M8 | 2/M12 | | | |
| | | | Dry & V | Vet | | | |
| 1M | 33142 Ultra | Тор | 1.45 | 1.45 | | | |
| 1.1M | 33142 Ultra | Тор | 1.30 | 1.30 | | | |
| 1.2M | 33142 Ultra | Тор | 1.20 | 1.20 | | | |
| 1.3M | 33142 Ultra | Тор | 1.10 | 1.10 | | | |
| 1.4M | 33142 Ultra | Тор | 1.10 | 1.10 | | | |
| 1.5M | 33142 Ultra | Тор | 1.00 | 1.00 | | | |
| 1.6M | 33142 Ultra | Тор | 0.90 | 0.90 | | | |
| 1.7M | 33142 Ultra | Тор | 0.80 | 0.80 | | | |
| 1.8M | 33142 Ultra | Тор | 0.70 | 0.70 | | | |

DATE: JULY 2017 PLEASE REFER TO GENERAL NOTES.



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 5 – Concrete Top-Fix



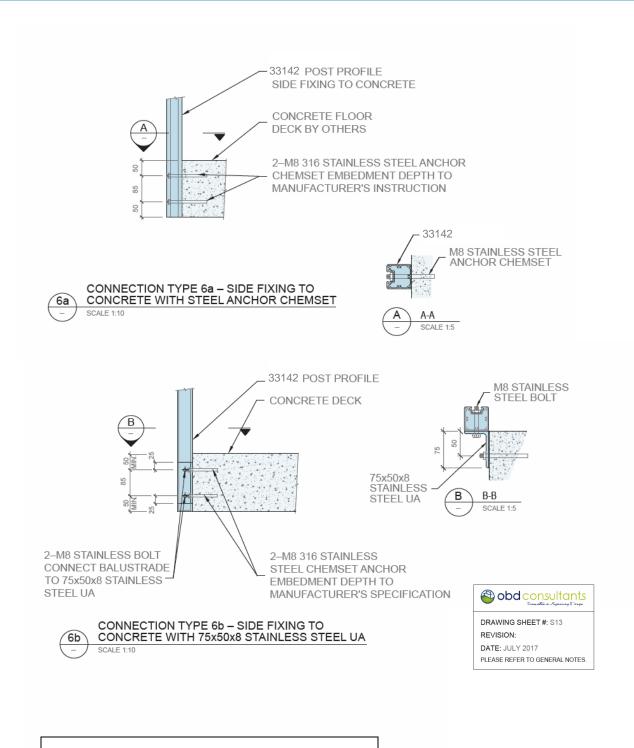
Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind

| | | | Maximum Post Spacing (M) |
|----------------------|-------------|----------------|------------------------------------|
| Balustrade Height | | Fixing Type | Type 5 |
| | | | Chemset Anchor Top Fixing Concrete |
| 1M | 33142 Ultra | Тор | 1.45 |
| 1.1M | 33142 Ultra | Тор | 1.30 |
| 1.2M | 33142 Ultra | Тор | 1.20 |
| 1.3M | 33142 Ultra | Тор | 1.10 |
| 1.4M | 33142 Ultra | Тор | 1.10 |
| 1.5M | 33142 Ultra | Тор | 1.00 |
| 1.6M | 33142 Ultra | Тор | 0.90 |
| 1.7M | 33142 Ultra | Тор | 0.80 |
| 1.8M | 33142 Ultra | Тор | 0.70 |



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 6 – Concrete Side-Fix

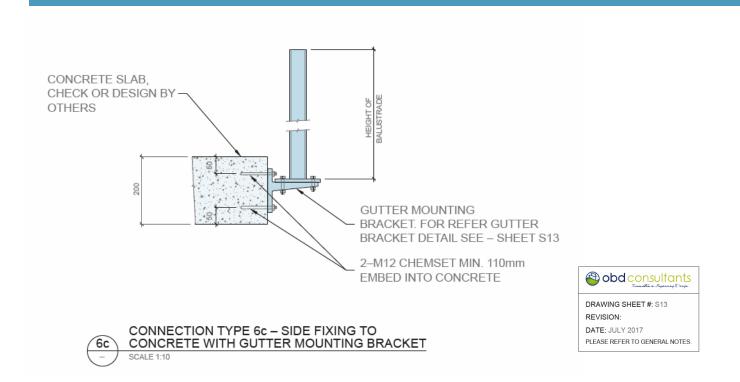


See Post Spacing table next page



EURO SLAT BALUSTRADE & POOL FENCE

Connection Type 6 – Concrete Side-Fix

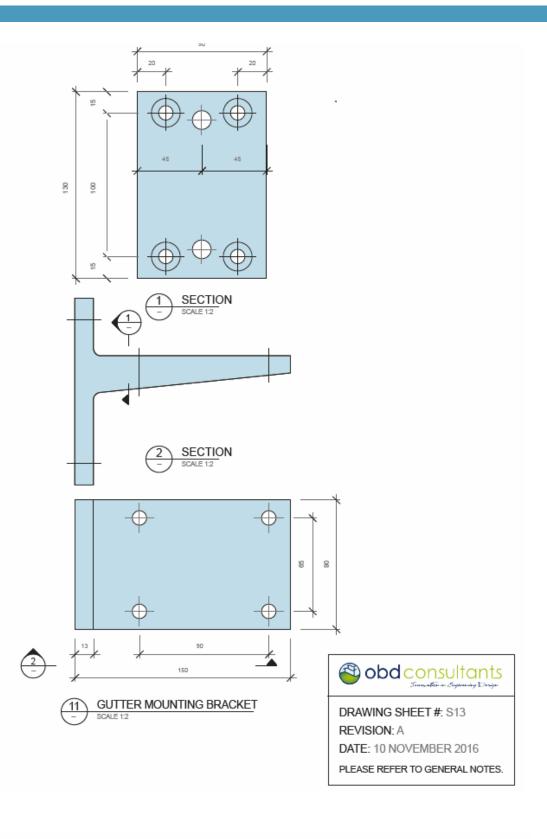


Balustrade Spacing summary Table to NZS:1170 Minimum Imposed Action to Barrier and NZS:3604 Very High Wind Zone Across

| Del stords | Delection Deat Continu | | Maximum Post Spacing (M) | | |
|----------------------|------------------------|-------------|--------------------------|--|--|
| Balustrade Height | Post Section Model | Fixing Type | Type 6 | | |
| | | | Side Fixing Concrete | | |
| 1M | 33142 Ultra | Side | 1.45 | | |
| 1.1M | 33142 Ultra | Side | 1.30 | | |
| 1.2M | 33142 Ultra | Side | 1.20 | | |
| 1.3M | 33142 Ultra | Side | 1.20 | | |
| 1.4M | 33142 Ultra | Side | 1.10 | | |
| 1.5M | 33142 Ultra | Side | 0.95 | | |
| 1.6M | 33142 Ultra | Side | 0.85 | | |
| 1.7M | 33142 Ultra | Side | 0.75 | | |
| 1.8M | 33142 Ultra | Side | 0.65 | | |

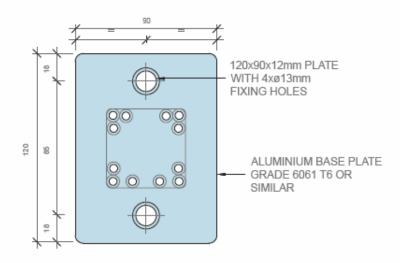


Gutter Bracket Design

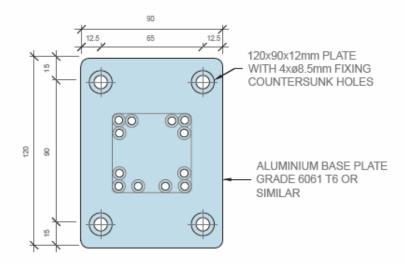


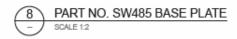


Base Plate Design - Euro Slat









NOTE - BOTH SC213 AND SW385 BASE PLATES MATE WITH 31557 AND 33142 POST PROFILES



DRAWING SHEET #: S11

REVISION: A

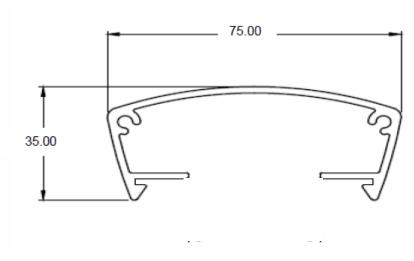
DATE: 10 NOVEMBER 2016

PLEASE REFER TO GENERAL NOTES.



Handrail Dimensions

Euro Handrail



Retro Handrail

