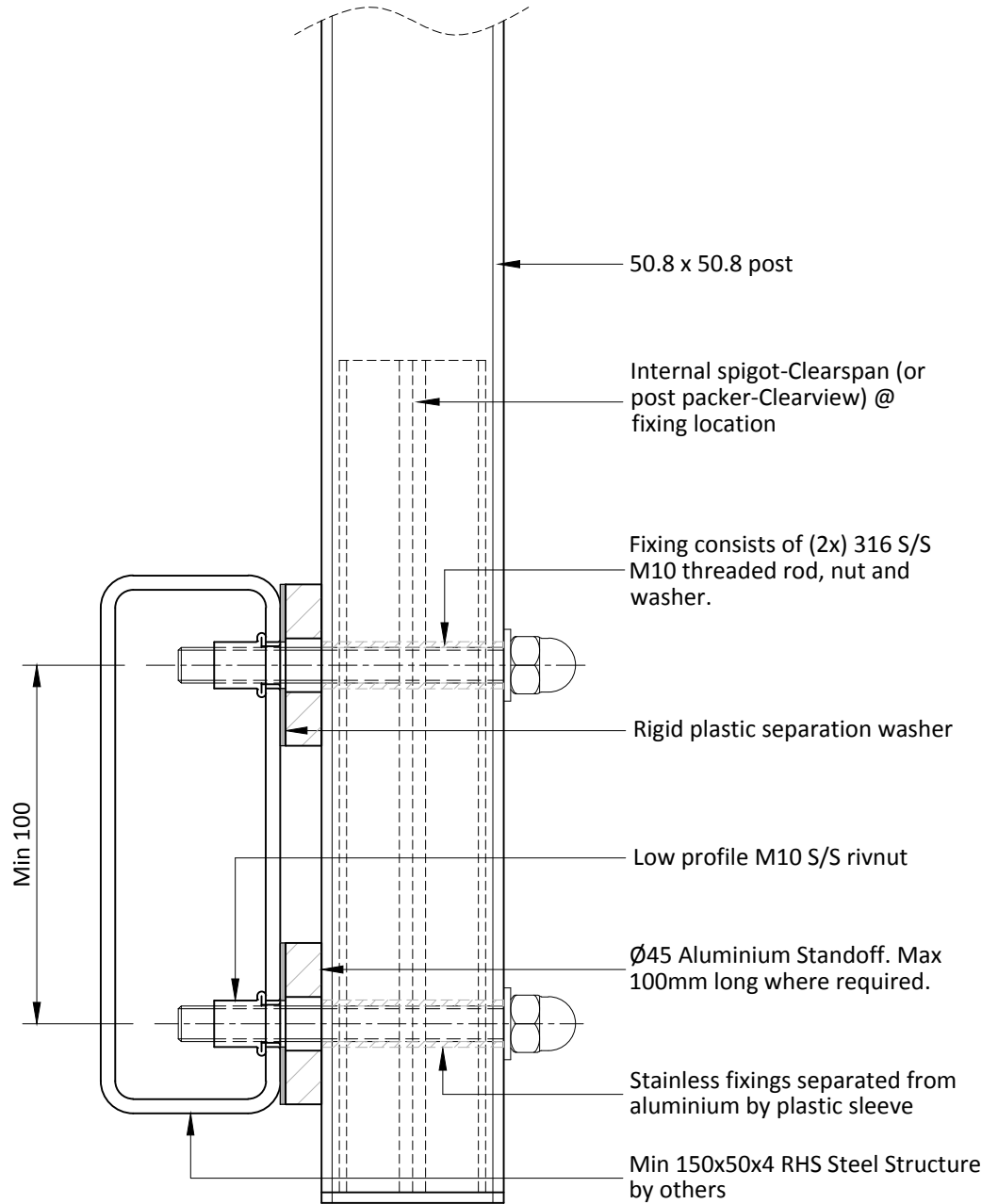


# CLEARSPAN or CLEARVIEW FACE FIXED TO STEEL RHS WITH RIVNUT



Leverage height max (distance from top of handrail to centreline of the upper fixing)

|  |                                   | 0.95m | 1.00m | 1.05m | 1.10m | 1.15m | 1.20m | 1.25m | 1.30m | 1.35m |
|--|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Glass or Solid infill (Vista, Classic, Clearview)      | Up to very high wind zone (50m/s) | 1.40m | 1.40m | 1.35m | 1.30m | 1.20m | 1.15m | 1.05m | 0.95m | 0.85m |
|  | Extra high wind zone (55m/s)      | 1.40m | 1.40m | 1.33m | 1.21m | 1.11m | 1.02m | 0.90m | 0.78m | 0.68m |
| 35% max closed area (Settler, Heritage, Face hung fin) | All wind zones (up to 55m/s)      | 1.40m | 1.40m | 1.35m | 1.30m | 1.20m | 1.15m | 1.05m | 0.95m | 0.85m |
| Maximum post ctrs                                      |                                   | 1.40m | 1.40m | 1.35m | 1.30m | 1.20m | 1.15m | 1.05m | 0.95m | 0.85m |

- Applicable to occupancy types A, B, C3 & E.
- This fixing detail PS1 should be used in conjunction with the appropriate system PS1.
- The barrier may extend above the handrail by max 200mm (e.g. Clearview offset or Face Hung Fin)
- This is a balustrade connection detail. Deck design, construction and water-proofing is the responsibility of others. For all other applications or non-standard or site specific connections not covered under the standard detail manual please contact Spectrum.

**PRODUCER STATEMENT – PS1 – DESIGN**
**ISSUE:A**

 (Guidance on use of Producer Statements is available at [www.engineeringnz.org](http://www.engineeringnz.org))

**ISSUED BY:** Kirk Roberts Consulting Engineers Ltd. **PROJECT NO: 1920274**  
(Design Firm)  
**TO:** Spectrum  
(Owner/Developer)  
**TO BE SUPPLIED TO:** Territorial Local Authority  
(Building Consent Authority)

**IN RESPECT OF:** Clearspan or Clearview Face Fixed to Steel RHS with RIVNUT (detail countersigned by myself and dated 14/12/20)  
(Description of Building Work)

**AT: Nationwide** **LOT: N/A** **DP: N/A** **SO**  
(Address)

We have been engaged by the owner/developer referred to above to provide **Structural Engineering Design** services in respect of the requirements of Clause(s) **B1/VM1** of the Building Code for All  or Part only  (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:  
 Compliance Documents issued by the Ministry of Business, Innovation & Employment **B1/VM1** or (verification method / acceptable solution)  
 Alternative solution as per the attached schedule.....

The proposed building work covered by this producer statement is described on **Spectrum** drawings detail titled “Clearspan or Clearview Face Fixed to Steel RHS with RIVNUT”, and numbered **BL.3.1.25, Rev:A 24.10.20** together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

- (i) All proprietary products meeting their performance specification requirements;
- (ii) Maximum Site Wind Speed of 55m/s at Ultimate Limit State.
- (iii) Compliance Documents issued by the Ministry of Business, Innovation & Employment provisions of B1/VM1: AS/NZS1170:2002 (loads), AS/NZS1664.1:1997 (aluminium)
- (iv) This PS1 is for the balustrade system listed above only. The design of the supporting structure for loads imposed from the balustrade system (including torsional loads) is the responsibility of others.
- (v) This certificate does not cover weather-tightness.
- (vi) Compliance with B2 is achieved on the following specific items using the standards noted below.
  - Steel members – coating in accordance with the specification to AS/NZS2312
  - Concrete members – covers in accordance with the specification to NZS 3101
  - Aluminium members – coatings in accordance with the specification to AS/NZS 1664.1.1997
- (vii) This Producer Statement - Design is valid for a building consent issued within 2 years from the date of issue;
- (viii) Inspections of the structural elements shall be undertaken by the Building Consent Authority (council). As Kirk Roberts Consulting Engineers are not undertaking inspections, we cannot issue a Producer Statement for Construction Review – PS4.

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation: (Refer note above)

CM1  CM2  CM3  CM4  CM5 (Engineering Categories) or  as per agreement with owner/developer (Architectural)

I, **Damian John McMillan** am:  CPEng **229150** #  
(Name of Design Professional)

I am a Member of:  Engineering New Zealand  NZIA and hold the following qualifications: **B.E.(Hons), CMEngNZ, CPEng**  
 The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000\*.  
 The Design Firm is a member of ACENZ:

SIGNED BY **Damian John McMillan** ON BEHALF OF **Kirk Roberts Consulting Engineers Ltd.**  
(Design Firm)

Date: 14/12/2020 (signature).....

*Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000\*.*

This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.