

Product Technical Statement



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(Manufactured by Industrial
Manufacturing Services)

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Product: Safetor Roof and Concrete Roof Anchors

Description: Safetor® Roof Anchors are a range of innovative permanent or temporary Fall-Arrest / Abseiling height safety anchor point systems that can be bolted to either timber or steel structural members. Safetor® Roof Anchors can also be provided with a fixing plate to be bolted to composite or cool store panels. The anchor stems can range in length from 235mm to 900mm long and can be provided without eyes to M12 - M16 threaded top.

A Dektite flashing provides weathertightness where the anchor stem passes through roof cladding.

Safetor® Concrete Roof Anchors are a range of roof anchors for use with concrete structures, and are available for use either bolted through the concrete member or cast into the concrete. Through bolt anchors are available in size from 16mm-30mm dia x 100mm-500mm long, with round disc washers 10mm thick placed on both sides to protect the concrete from chipping.

Safetor® Roof Anchors and Safetor® Concrete Roof Anchors are manufactured from mild steel (Grades 300PLUS, R300E, and HA250 to AS/NZS3679.1) and welded to ASME IX:2010 procedure IMS-MIG-ASME, and coated with Plascoat PPA 571 ES high durability corrosion protection coating.

All Safetor® anchors are certified to AS/NZS 5532.2013, AS/NZS 1891.2.2001 and AS/NZS 1891.4 2009.

Scope of Use: Safetor® Roof Anchors can be bolted to timber or steel structural members. Safetor® Roof Anchors can also be provided with a fixing plate to be bolted to composite or cool store panels.

Safetor® Concrete Roof Anchors are a range of roof anchors for use with concrete structures, and are available for use either bolted through the concrete member or cast into the concrete.

Safetor® Roof Anchors and Safetor® Concrete Roof Anchors are suitable for use in all exposure zones as described in NZS3604.

Conditions: The installation of Safetor® Roof Anchors and Safetor® Concrete Roof Anchors to the building structure must be supported by specific engineering design by a CPENG, who should provide a PS1 for the design and PS3 or PS4 verifying the installation of the anchor.

Limitations: For the Tri-Chem Concrete Anchor, each Tri-Chem bolt must be load tested to 3kN before bolting the mounting plate to the concrete structure, to enable the attached anchor to be rated at 12kN to 21kN.

Technical Literature: QSI Test Report TR2014026
SGS Welding Procedure Specifications File Reference INZ38809

When used as described above, Safetor Roof and Concrete Roof Anchors meet the following relevant performance requirements of the New Zealand Building Code

Relevant Code Clause:	Basis of Compliance:	Related documents:	Comments:
Structure B1.1	Verification method	B1/VM1; AS/NZS 5532:2013	Safetor® Roof Anchors and Safetor® Concrete Roof Anchors have been tested and comply with AS/NZS 5532:2013 Manufacturing requirements for single-point anchor device used for harness based work at height. The installation of Safetor® Roof Anchors and Safetor® Concrete Roof Anchors to the building structure must be supported by specific engineering design by a CPENG, who should provide a PS1 for the design and PS3 or PS4 verifying the installation of the anchor.
Structure B1.3.3b	Verification method	B1/VM1; AS/NZS 5532:2013	
Durability B2.3.1b	Verification method	B2/VM1; ISO 12944	Safetor® Roof Anchors and Safetor® Concrete Roof Anchors are powder coated with Plascoat PPA 571 ES to provide longterm durability in harsh environments. Plascoat PPA 571 ES is tough,flexible, abrasion and impact resistant, and highly adhesive to metal substrates. It is also highly resistant to long-term outdoor exposure, as well as to alkaline and acid chemical attack. Plascoat PPA 571 provides corrosion protection to ISO 12944 part 6 categories C5-M and Im3 High.
Hazardous building materials F2.3.1	Alternative solution		No harmful material is emitted by Safetor® Roof Anchors or Safetor® Concrete Roof Anchors.