Product Technical Statement

VITOR+ VITOR+ZX LUX

The Roofing Store

TRS 5

PROFILE DETAILS:

TRS 5 is a trapezoidal profile which is ideal for residential and industrial roofing and cladding. G550 grade steel with minimum 0.40mm BMT and maximum 0.55BMT gives more resilience to damage.

APPLICATION

TRS 5 is ideal for use on new homes, and existing buildings as roofing and wall cladding system.

SPANS

End Span 0.40/0.55 BMT: 1100mm/1500mm
Internal Span 0.40/0.55 BMT: 1600mm/2200mm

FIXINGS

LOW/MEDIUM WIND ZONE

Timber: class 4 12 x 65mm with neo washer and embossed washer

Steeltite: 12 x 55mm with neo washer and embossed washer

HIGH WIND ZONE

Timber: class 4 12 x 65mm with neo washer and embossed washer, approved profile washers with EPDM

Steeltite: 12 x 55mm with neo washer and embossed washer, approved profile washers with EPDM

VERY HIGH WIND ZONE

Only use 0.55 mm thick for very high wind zones

Screw patten: Screw at every crest

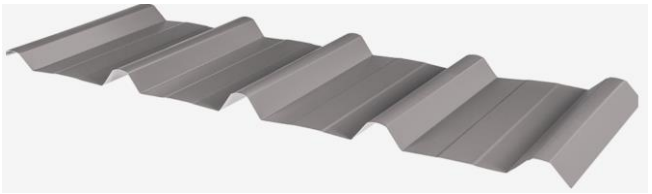
Timber: class 4 12 x 65mm with neo washer and embossed washer, approved profile washers with EPDM

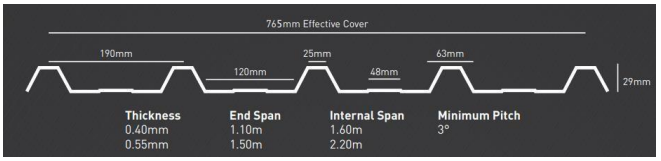
Steeltite: 12 x 55mm with neo washer and embossed washer, approved profile washers with EPDM

WALL CLADDING FIXINGS

Cladding fixing on 20mm:

Timber Battens (please ensure compatibility as some treatments may cause a reaction) Every pan with 12-gauge class 4 screws with neo washers.





DATE: 4/06/2021

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Position: Building Estimator

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Further information:

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DESIGN STANDARDS

This Product Technical Statement covers the use of TRS 5 as wall or roof cladding for non- specifically designed timber and steel framed buildings designed and constructed in accordance with B1/AS1, NZS3604 and E2/AS1, and specifically designed buildings in accordance with B1/VM1, AS/NSZ4040 and AS/NZS 1170 and AS 4040.3.

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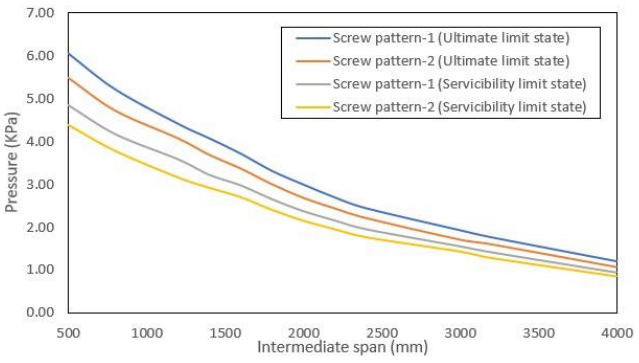
Design standards	Basis of compliance	Remarks
B2 Durability and condensation tests Compliance with B2/AS1 and AS/NZS 2728: 2013 (Table 2.5)	1. Steel coating's water resistance test. 2. T-bend adhesion test. 3. Cross hatch adhesion test. 4. Accelerated UV test. 5. Blistering	1. Passes 500 hour's-controlled condensation. 2. No coating removals.
Structure, B1/VM1, AS/NZS 1170:2002, AS/NZS 1397: 2011, AS 4040.3	Physical in-house testing, Static wind uplift and cyclic tests in accordance with VM1.	1. Meets the minimum wind load requirements for NZ building code. 2. Meets deflection requirement as per clause 6.2.2 and the ultimate strength test as per clause 6.3 of the AS/NZ building code.
E2-External moisture	Meets the requirements of NZ building code E2/AS1.	The building designer/ Architect is ultimately responsible for details to meet the NZ Building Code. For recommended TRS 5 details, please check www.theroofingstore.co.nz
Fire affecting areas beyond the fire source, C3.4(a), 3.5, 3.7 (a-c): External fire spread and external surface finish Peak rate of heat release and total heat release	Acceptable solution based on Building code performance: CAS2/ CAS7, Clause 5.8 External cladding systems and refer table 5.5 of C/AS2.	TRS 5 roof and wall claddings are non-combustible as per the AS/NZ building code. The peak rate of heat release and total heat release values for TRS 5 roof and wall claddings are within the acceptable limits of C/AS2 (Table 5.5).

SCREW PATTERNS:

Screw pattern 1: Screw in each crest
Screw pattern 2: Screw in alternate crests

WIND LOAD GRAPHS:



Wind load-span graphs for different types of screw patterns for 0.55 mm TRS 5 profile