

## Product Technical Statement

VITOR<sup>+</sup> VITOR<sup>+ZX</sup> LUX<sup>+</sup>



# TRS Corrugate

## PROFILE DETAILS:

TRS Corrugate for roofing and cladding offers the timeless elegance and matchless adaptability of the traditional corrugated profile. G550 grade steel with minimum 0.40mm BMT and maximum 0.55 BMT gives more resilience to damage.

## APPLICATION

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

## GENERAL

Minimum Roof Pitch: 8 Degrees

Effective Cover: 762mm

## SPANS

End Span 0.40/0.55 BMT: 700 mm/900 mm

Internal Span 0.40/0.55 BMT: 900 mm/1300 mm

## FIXINGS

### LOW/MEDIUM WIND ZONE

Timber: class 4 12 x 55mm with neo washer and embossed washer.

Steeltite: 12 x 65mm with neo washer and embossed washer.

### HIGH WIND ZONE

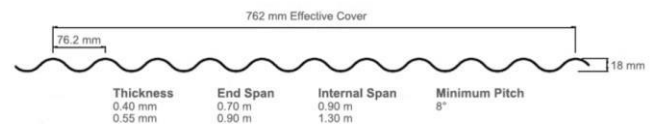
Timber: class 4 12 x 55mm with neo washer and embossed washer, approved profile's metal washer and EPDM washer.

### WALL CLADDING FIXINGS

Cladding fixing on 20mm

H 3.1 Treated Battens

12 Gauge class 4 screws with neo washers, miss 2 pans, miss 3 pans every second on ends.



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### Further information:

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## DESIGN STANDARDS

This Product Technical Statement covers the use of TRS corrugate 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
<b>Kiwicolour Pre painted Steel</b> 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 and testing in collaboration with the University of Auckland.	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	Service history of corrugate profile type roofing and cladding.	The building designer/ Architect is ultimately responsible for details to meet the NZ Building Code. For recommended TRS corrugate details, please check <a href="http://www.theroofingstore.co.nz">www.theroofingstore.co.nz</a>
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 corrugate 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 corrugate roof/wall claddings are within the acceptable limits of C/AS2 (Table 5.5).

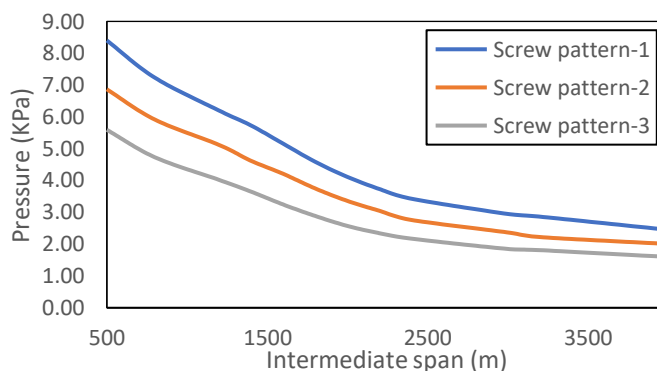
### SCREW PATTERNS:

**Screw pattern 1:** Screw in each crest

**Screw pattern 2:** Screw in alternate crests

**Screw pattern 3:** Hit one miss two pattern crew fixings at crests

### WIND LOAD GRAPHS:



Wind load-span graphs for 0.55 mm BMT TRS Corrugated profile