

Product Technical Statement

VITOR⁺ VITOR^{+ZX} LUX

 The Roofing Store

TRS 3

PROFILE DETAILS:

TRS 3 is a versatile profile, which can suit most residential and commercial roofing and cladding projects, whether for its low pitch capabilities or its visual appeal. Its concealed fixing system makes it ideal for harsher environments. A variety of coatings are available to suit environmental and aesthetic criteria.

APPLICATION

TRS 3 is ideal for use on new homes, and existing buildings as roofing and wall cladding system.

GENERAL

Effective Cover: 410mm Overall

Width: 412mm Minimum Roof

Pitch: 3 Degrees

SPANS

End Span: G300/0.55 BMT-1300mm

Internal Span: G300/0.55 BMT-1600mm

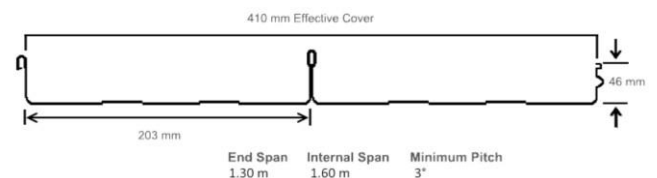
FIXINGS

Concealed clip and nails: 1 concealed fastener per sheet at each purlin.

All fixings and fasteners are to be of an approved type, compatible with all materials, the environment and meeting the requirements of the NZ Building Code. Installation is to be in accordance with the NZ Metal Roof and Wall Cladding Code of Practice or manufacturer's instructions.

ACCESSORIES

Flashing up to 8 metres. Pipe flashings, Rivets, underlays, netting and sealants, translucent roofing to match



DATE: 4/06/2021

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DESIGN STANDARDS

This Product Technical Statement covers the use of TRS 3 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.

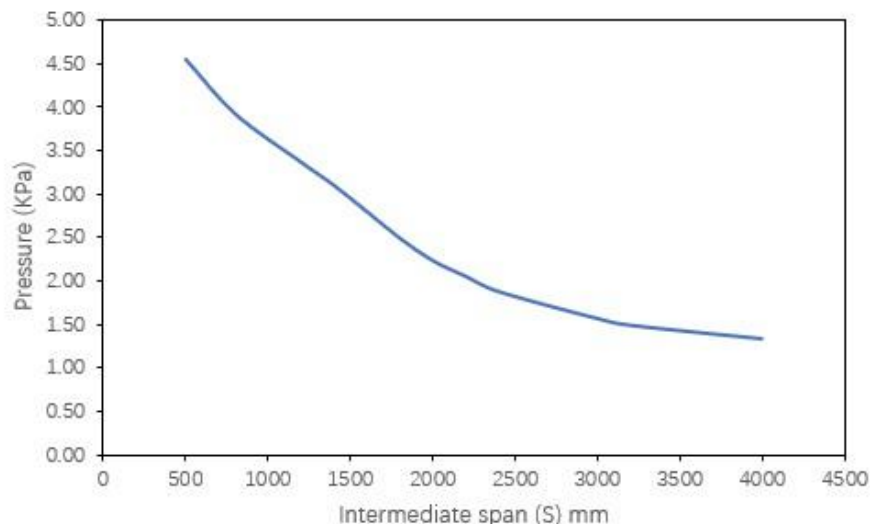
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Design standards	Basis of compliance	Remarks
B2 Durability and condensation tests Compliance with B2/AS1 and AS/NZS 2728: 2013 (Table 2.5)	<ol style="list-style-type: none"> 1. Steel coating's water resistance test. 2. T-bend adhesion test. 3. Cross hatch adhesion test. 4. Accelerated UV test. 5. Blistering 	<ol style="list-style-type: none"> 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 of wind-uplift and cyclic wind loadings in accordance with the E2/AS1.	<ol style="list-style-type: none"> 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 wider tray profile type roofing and cladding. TRS 3 has a profile height of 46 mm, which exceeds the minimum of 38 mm for trough profiles as per E2/AS1-Clause 6.4.4c.	The building designer/ Architect is ultimately responsible for details to meet the NZ Building Code. For recommended TRS 3 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 3 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 3 roof and wall claddings are within the acceptable limits of C/AS2 (Table 5.5).

WIND LOAD GRAPH



Wind load-span graph for 0.55 mm TRS 3 profile