

## TRS INTERLOCKING WALL CLADDING SYSTEM

### PURPOSE

TRS Interlocking Panels are supplied for use as an external metal cladding system that is installed over a 20 mm drained and ventilated cavity system and as an internal lining that may be direct fixed or fixed on battens.

### EXPLANATION

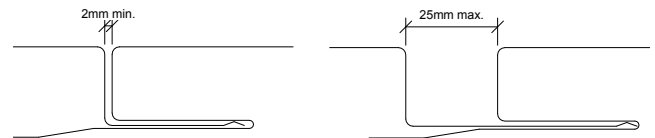
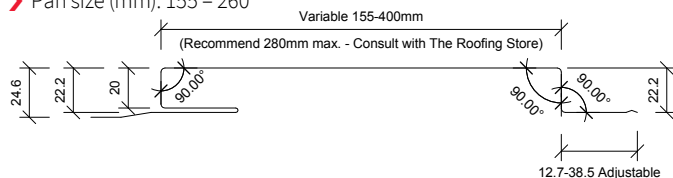
The panels are long-run metal sheets fabricated from:

- Vitor+, Vitor+<sup>ZX</sup> or LUX (with base metal thickness of 0.55 g)
- Copper
- Pre-painted Aluminium (0.8 mm thick)
- Stainless steel.

The panels incorporate an interlocking groove that provide the appearance of a recessed joint. The panels may be installed horizontally or vertically.

Panel dimensions are as follows:

- Length (maximum) (m): 4.0, and 6.0 (pre-painted steel only)
- Recommended negative joint size (mm): 15.
- Pan size (mm): 155 – 260



For further assistance please contact:

- ☎ 0800 277 271
- ✉ info@theroofingstore.co.nz
- 🌐 [www.theroofingstore.co.nz](http://www.theroofingstore.co.nz)

TRS Interlocking Panels are available in a number of different colours and can also be finished to resemble rusticated weatherboards.

### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> In all wind zones as defined in NZS 3604:2011 or up to a calculated wind design pressure of 2.5 kPa. All exposure zones as defined in NZS 3604:2011. On buildings located any proximity to a relevant boundary.	<ul style="list-style-type: none"> <li>➤ Fixing to be in accordance with TRS Span Tables.</li> <li>➤ Where exposure zone D applies Vitor+ and Lux may not be used.</li> <li>➤ Where 'microclimatic conditions' (sec 4.2.4, NZS 3604:2011) apply, contact The Roofing Store for technical advice.</li> <li>➤ TRS Interlocking panels are non-combustible.</li> <li>➤ The balance of the external wall (design &amp; construction) must comply with the relevant fire provisions of the NZ building code.</li> </ul>
<b>Building</b> On all building uses. In conjunction with a primary structure (timber or steel structural framing, or over structural panels) that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work. As an external wall.	<ul style="list-style-type: none"> <li>➤ Where material group 1 or greater is required.</li> <li>➤ All building heights subject to the limitations of the TRS span tables. The balance of the external wall (design &amp; construction) must comply with the relevant fire provisions of the NZ building code.</li> <li>➤ Where installed over steel framing and where part of an insulated building, a thermal break is required.</li> <li>➤ Must be installed over a drained and ventilated cavity</li> <li>➤ Where installed horizontally, castellated cavity battens are required.</li> <li>➤ Flashings, flexible and rigid building underlays and TRS Interlocking Panel fixings must be in accordance with E2/AS1 and/or the NZMRM Code of Practice (V3.0).</li> <li>➤ Contact with other materials must be in accordance with E2/AS1 and NZMRM Code of Practice (V3.0).</li> </ul>
As an internal lining	<ul style="list-style-type: none"> <li>➤ Where material group 1 or greater is permitted.</li> <li>➤ The panel must be earthed where a power socket is installed in the panel or wires run behind it.</li> </ul>

### USEFUL INFORMATION

For design, installation, maintenance and warranty information for the TRS Interlocking Panels, and for supply and manufacturing information, and the statement made about s26 of the Building Act 2004, refer to [www.theroofingstore.co.nz](http://www.theroofingstore.co.nz).

### OTHER CERTIFICATIONS AND APPROVALS

KiwiColour as manufacturer of the coated steel product provide assurance that the steel:

- has been manufactured in accordance with AS:1397
- is coated in accordance with AS/NZS 2728.

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all The Roofing Store requirements, TRS Interlocking Panels will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
<b>B1 Structure</b> B1.3.1, B1.3.2, B1.3.3 (a, b, c, d, g, i)	ACCEPTABLE SOLUTION B1/AS1	<ul style="list-style-type: none"> <li>➤ AS/NZS 1397:2011.</li> <li>➤ AS/NZS 1170:2002 (for span tables).</li> <li>➤ The Roofing Store. Wind uplift strength of interlocking claddings under static and cyclic wind loading. [n.d.]</li> </ul>
<b>B2 Durability</b> B2.3.1 (b), B2.3.2 (b)	ACCEPTABLE SOLUTION B2/AS1	<ul style="list-style-type: none"> <li>➤ Coated in accordance with AS/NZS 2728:2013 cited in E2/AS1 which provides for profiled metal roofing and cladding solutions including the durability attributes of the building elements.</li> </ul>
<b>C3 Fire Affecting Areas Beyond the Fire Source</b> C3.4 (a), C3.5, C3.7 (a)	ACCEPTABLE SOLUTION C/AS2	<ul style="list-style-type: none"> <li>➤ Steel, Aluminium, S/Steel &amp; Copper are non-combustible.</li> <li>➤ Material Group 1S, Table A1, C/VM2.</li> </ul>
<b>E2 External Moisture</b> E2.3.1, E2.3.2, E2.3.7 (a, b, c)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Generally in accordance with E2/AS1</li> <li>➤ The Roofing Store. Weathertightness testing of the TRS interlocking panel claddings. [n.d].</li> <li>➤ E2 Evaluation of wall cladding system demonstrates compliance with Clause E2 [TBB, 10/2022].</li> </ul>
<b>E3 Internal Moisture</b> E3.3.4, E3.3.5, E3.3.6	ACCEPTABLE SOLUTION	<ul style="list-style-type: none"> <li>➤ Metals are impervious to water.</li> <li>➤ Where E3 applies, the panel is to be installed in accordance with E3/AS1.</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Use in accordance with supplier's safety information.</li> <li>➤ Coating system is inert once dry.</li> </ul>
<b>G3 Food Preparation and Prevention of Contamination</b> G3.3.2 (b)	ACCEPTABLE SOLUTION	<ul style="list-style-type: none"> <li>➤ Para 2.2.3 requires that building elements and any joints in construction be impervious and easily cleaned. TRS Interlocking Panels meet this requirement.</li> </ul>

## SOURCES OF INFORMATION

- BRANZ [n.d.] *Fire Testing & Assessment*. Retrieved from [https://www.branz.co.nz/cms\\_display.php?sn=338&st=1&pg=18353](https://www.branz.co.nz/cms_display.php?sn=338&st=1&pg=18353) (16/12/2019).
- The Roofing Store. [n.d.] *Wind uplift strength of interlocking claddings under static and cyclic wind loading*. Report no TRS-RPT-001.
- The Roofing Store [n.d.] *Weathertightness testing of the TRS interlocking panel claddings*. Report no. TRS-RPT-002.
- TBB. [10/2022]. *E2 Evaluation of TRS Standing Seam™, TRS Super Seam™ and TRS Interlocking Wall Cladding for use as wall cladding*.

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.
3. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™.
4. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

The Roofing Store Ltd confirms that if TRS Interlocking Wall Cladding System is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

**Date of first issue:** 20/12/2019

**Date of current issue:** 28/06/2023

**NZBN:** 9429030587328

Scan or click this QR code for a full download of Compliance Documentation for this pass™.  
[www.theroofingstore.co.nz](http://www.theroofingstore.co.nz)



*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of The Roofing Store Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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