

## EUROSPAN, DOUBLE STANDING SEAM, ANGLE SEAM AND SNAP LOCK ROOF AND WALL ARCHITECTURAL EUROPEAN-STYLE METAL TRAY CLADDING

### PURPOSE

EuroSpan, Double Standing Seam, Angle Seam and Snap Lock Roof and Wall Architectural European-Style Metal Tray Cladding (EuroSpan Metal Tray Cladding) is supplied by MDS for use in external roof and wall cladding systems.

### EXPLANATION

EuroSpan Metal Tray Cladding features are metal tray profiles for long runs, with wide pan trays and wide caps manufactured from 0.55 BMT pre-painted steel, 0.7 mm Zinc and 0.9 BMT aluminium, 0.6 BMT copper or 0.7 BMT zinc. The Double Standing Seam profile and Angle Seam profiles incorporate traditional standing seams or vertical ribs and the Snap Lock profile and EuroSpan profiles incorporate expressed standing seams.

The EuroSpan profile can be swaged or incorporated in a fully vented design.

Standard sizes are:

- EuroSpan – interlocking edge crest of 45 mm, swag pan typically 463 mm o/a
- Double Standing Seam interlocking edge crest of 38 mm, flat pan typically 500 mm o/a
- Angle Seam – interlocking edge crest of 25.5 mm and 38 mm, flat pan typically 500 mm o/a
- Snap Lock – edge crest of 25 mm and 38 mm, flat pan, typically 500 mm o/a.

Custom sizes are available.

The profiles lock together at the seam and are fixed with hidden clips.

The Double Standing Seam, Angle Seam and Snap Lock profiles are fixed to a plywood substrate and EuroSpan roofing can be directly layed over a self-supporting building wrap or wrap and cavity battens when used as a wall cladding.



For further assistance  
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- ☎ 09 640 0009
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### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b>	
In wind zones up to and including Extra High as defined in NZS 3604:2011 or a maximum wind design pressure (ULS) of 2.1 kPa.	➤ Fixing spacings must be calculated in accordance with section 3.9 of the NZ Metal Roofing Manufacturers (NZMRM) Code of Practice, version 23.09 or specifically designed.
In all exposure zones as defined in NZS 3604:2011.	➤ Where microclimatic conditions apply (section 4.2.4, NZS 3604:2011), contact MDS for technical advice.
	➤ In exposure zone D, steel must not be used.
On buildings located any proximity to a relevant boundary.	➤ The design of the other external envelope elements must comply with the relevant fire provisions of the NZ Building Code.
<b>Building</b>	
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.	➤ A thermal break is required where installed over steel framing.
As a roof cladding.	<ul style="list-style-type: none"> <li>➤ Minimum roof pitch must be 3°. Minimum roof pitch for Angle Seam is 5°.</li> <li>➤ A substrate of minimum 15 mm plywood with a building wrap must be installed for Double Standing Seam, Angle Seam and Snap Lock profiles. EuroSpan must be fixed through the substrate into structural members. The substrate must be a self-supporting underlay at a minimum. Where a plywood substrate is required, a minimum of 15 mm should be used.</li> <li>➤ Flashings, flexible building underlays, and fixings must be in accordance with E2/AS1 and/or the NZMRM Code of Practice, version 23.09.</li> <li>➤ Contact with other materials must be in accordance with E2/AS1 and the NZMRM Code of Practice, version 23.09.</li> </ul>
As an external wall cladding.	<ul style="list-style-type: none"> <li>➤ Must be installed over a drained and ventilated cavity.</li> <li>➤ A substrate of minimum 15 mm plywood with a building wrap must be installed for Double Standing Seam, Angle Seam and Snap Lock profiles. EuroSpan must be fixed through the substrate into structural members. The substrate must be a self-supporting underlay at a minimum or a minimum of 15 mm plywood if requested.</li> <li>➤ Where the cladding is installed vertically, H3.1 LOSP or H3.2 CCA castellated cavity battens are required.</li> <li>➤ Flashings, flexible and rigid building underlays, and fixings must be in accordance with E2/AS1 and/or the NZMRM Code of Practice, version 23.09.</li> <li>➤ Contact with other materials must be in accordance with E2/AS1 and the NZMRM Code of Practice, version 23.09.</li> <li>➤ Where the building has a building height greater than 10 m and upper floors contain sleeping uses or other property, then the external wall must be subject to specific fire engineering design in respect of vertical spread of flame.</li> </ul>

### USEFUL INFORMATION

For design, installation and maintenance information, refer to [mds.net.nz](https://mds.net.nz).

### OTHER CERTIFICATIONS HELD BY MDS

- Member of the New Zealand Metal Roofing Manufacturers Association Inc (NZMRM) and Roofing Association of New Zealand (RANZ).

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all MDS requirements, Standing Seam Metal Tray Cladding 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) B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Manufactured in accordance with AS 1397-2001.</li> <li>Generally, in accordance with the NZMRM Code of Practice, version 23.09 and E2/AS1.</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>Materials in accordance with E2/AS1 and the NZMRM Code of Practice version 23.09, which provides for profiled metal roofing and cladding solutions including the durability attributes of the building elements.</li> <li>System componentry materials in accordance with Table 20 of Acceptable Solution E2/AS1 and section 4 NZS 3604:2011 and Table 1 of Acceptable Solution B2/AS1.</li> </ul>
<b>C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE</b> C3.4 (a), C3.7 (a)	ACCEPTABLE SOLUTION C/AS2 1st Edition, June 2019 VERIFICATION METHOD C/VM2	<ul style="list-style-type: none"> <li>Metal is defined in C/AS1 and C/AS2 as non-combustible.</li> </ul>
<b>E2 EXTERNAL MOISTURE</b> E2.3.1, E2.3.2, E2.3.5, E2.3.7 (a, b, c)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Generally, in accordance with the NZMRM Code of Practice, version 23.09 and E2/AS1.</li> <li>Evaluation of the profiles demonstrates compliance with Clause E2 [TBB, 11/2023].</li> </ul>
<b>F2 HAZARDOUS BUILDING MATERIALS</b> F3.2.1	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>

## SOURCES OF INFORMATION

- TBB. [11/2023]. *E2 Evaluation of Metal Design Solutions EuroSpan, Double Standing Seam, Angle Seam and Snap Lock Roof and Wall Architectural European-Style Metal Tray Cladding*. V1.0.

SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

[mds.net.nz](https://mds.net.nz)



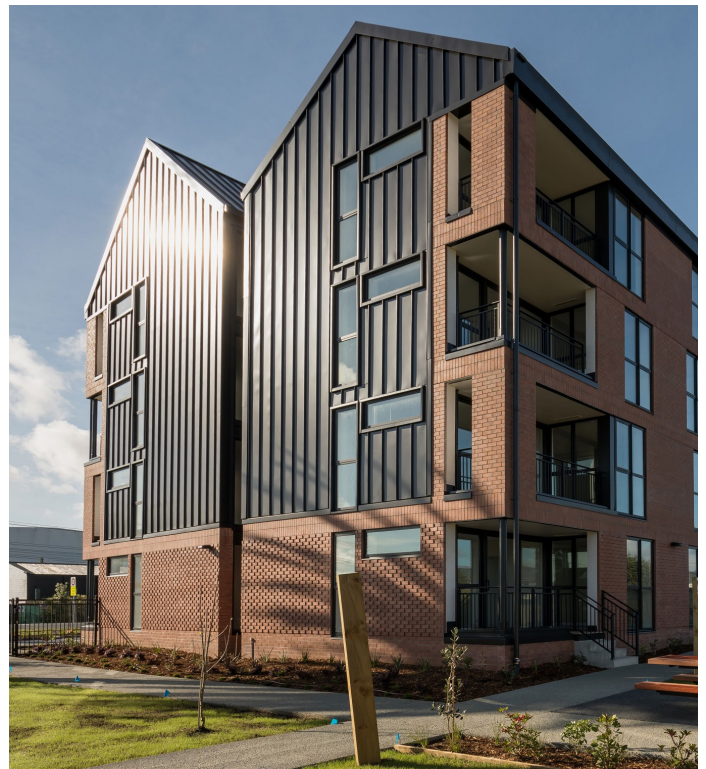
1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. 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™. 6. 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™.

Metal Design Solutions Ltd (MDS) confirms that if Standing Seam Metal Tray Cladding 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:** 28/11/2023

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**NZBN:** 9429037336424



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Metal Design Solutions Ltd (MDS) 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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