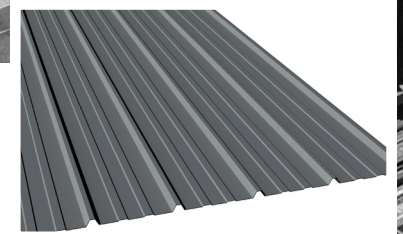
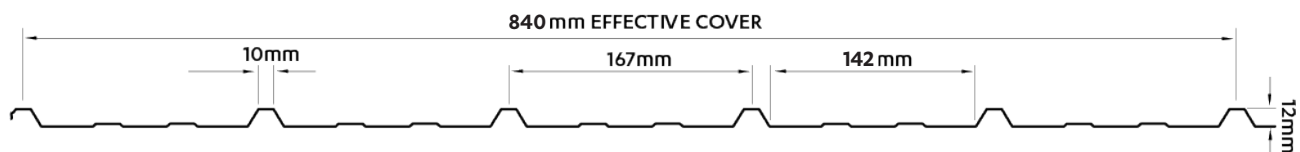


TRIMKLAD

PRODUCT TECHNICAL STATEMENT



Trimklad is a low rib propriety cladding profile. Trimklad has an unobtrusive rib and a wide pan to give a neat appearance and greater economy for many internal and external cladding and lining situations. Its low rib makes installation details and washing down a breeze – great for hygiene areas.

DESIGN GUIDELINES

- **Effective Cover (mm):** 840mm
- **Applications:** Wall Cladding, Specialty Cladding, Ceilings and Linings.
- **Available nationwide:** Manufactured in Hamilton.
- **Materials:** Specify coating and material based on environmental conditions in accordance with NZS E2/AS1. Available in metallic coated and pre-painted steel in 0.40mm and 0.55mm BMT (base metal thickness). Matching translucent sheeting is available in G.R.P. (fibreglass).
- **Durability:** All material selections must be compatible with prevailing environmental conditions and adjacent materials.

NEW ZEALAND BUILDING CODE COMPLIANCE

The product will, if used in accordance with Steel & Tube's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B1 Structure: Performance B1.3.3(a), B1.3.3(b), B1.3.3(g), B1.3.3(h)
- Clause B2 Durability: Performance B2.3.1(b), B2.3.1(c)
- Clause C3 Fire affecting areas beyond the fire source: Performance C3.9
- Clause E2 External moisture: Performance E2.3.1, E2.3.2
- Clause G12 Water supplies: Performance G12.3.2
- Clause F2 Hazardous building materials

To comply with the performance clause of NZBC clause E2 roof cladding to be installed in accordance with:

- Acceptable Solution NZS E2/AS1
- NZ Metal Roofing Manufacturers Code of Practice
- Steel & Tube specifications
- Steel & Tube details are available on steelandtube.co.nz

Steel & Tube Trimklad is not subject to a warning or ban under section 26 of the New Zealand Building Act 2004.

ENVIRONMENTAL PRODUCT DECLARATION

All Steel & Tube roofing and cladding profiles are accredited with Environmental Choice and New Zealand Made when manufactured from COLORSTEEL®.

Refer to **COLORSTEEL® Environmental Product Declaration Brochure**.



Pre-painted and Resin Coated Steel Products
Licence No. 5717145



MAINTENANCE

Regular maintenance is required to maximise the lifetime of metal roofing and wall cladding products. Areas not exposed to rain washing such as soffits, wall cladding under eaves, undersides of gutters, fascias, sheltered areas such as garage doors will require programmed maintenance.

Refer to **New Zealand Steel Maintenance Recommendations Bulletin & Environmental Categories, Warranty & Product Maintenance Recommendations Brochure**.

When access to the roof is necessary after construction, it is best practice to place foot in the pan of the profile when walking up the roof and follow purlin lines when traversing roofs. If ribs are too close together, so workers cannot place their feet in the pan, their weight must be spread evenly over at least two ribs when walking up the roof.

PERFORMANCE DATA

METAL CLADDING TESTING

Metal Cladding Testing is carried out in accordance to the NZMRM Code of Practice section - Testing and MRM Standards.

MATERIAL	MASS kg/lm
G550 0.40 BMT Steel	3.15
G550 0.55 BMT Steel	4.27

MAXIMUM SPANS

Distributed loads in kPa using 3 fasteners per sheet per support (pan-fixed with no LSW). Loads for alternative fastener frequencies available on request.

MATERIAL	SPAN TYPE	SPAN mm					
		600	900	1200	1500	1800	2100
0.40 mm	Internal	7.83	5.31	3.87	3.45	2.57	2.25
	End	7.2	4.77	3.43	2.79	2.30	2.07
	Single	10.80	6.98	4.95	4.14	3.96	-

Extra High

Very High/High/Medium

High/Medium

Medium

Allowable windzone in accordance with NZS 3604:2011.

FASTENERS

For roof and wall cladding, minimum 30mm embedment is required for screws into timber or three threads engagement for screws into steel. When fastening through a non-structural building element such as cavity battens, sarking or thermal breaks, increase the screw length to ensure a minimum of 30 mm penetration into timber structure or three full screw threads engagement through a steel support.

The durability of fasteners should equal or exceed that of the material being fastened, and the fastener metal or coating must be compatible with the cladding material if in contact. Refer to NZS E2/AS1 Table 20.

STEEL AND ALUMINIUM WALL CLADDING COMMON FIXINGS¹ (PAN-FIXED)

ROOF CLADDING MATERIAL	TIMBER PURLINS	STEEL PURLINS OR GIRTS UP TO 2.5mm	STEEL PURLINS OR GIRTS 2.5mm TO 4.5mm	WASHERS (IF REQUIRED)
Steel Direct Fix	12g x 35mm T17 with neoprene seals	12g x 20mm steel SDS with neoprene seals	12g x 20mm steel SDS with neoprene seals	Load spreading profiled washer and 30mm EPDM sealing washer
Steel On 20mm Cavity Batten	14g x 55mm dual point or 12g x 55mm T17 with neoprene seals	14g x 55mm dual point or 12g x 45mm steel SDS with neoprene seals	12g x 45mm steel SDS with neoprene seals	Load spreading profiled washer and 30mm EPDM sealing washer

¹ In a Category 5 environment, a Class 5 fixing is recommended.

SPECIFICATIONS

Recommended specifications, including matching Steel & Tube Profiled Natural Lighting are available in the branded sections of Masterspec, SMARTSPEC or from your local Steel & Tube branch or visit steelandtube.co.nz

DESIGN DETAILS

Design details covering many applications are available on steelandtube.co.nz in .DWG, .PDF and .RVT under each product section.

THERMAL NOISE

All profiled metal roofs and wall cladding will exhibit thermal roof noise at times. Thermal roof noise is caused by the roof expanding or contracting due to temperature fluctuation and darker colours may increase thermal noise, this is covered in the NZMRM Code of Practice.

As stated in the **MBIE document - Guide to tolerances, materials and workmanship in new residential construction 2015**, "Noise from the thermal expansion of the metal roofing is normal and should be expected."

TRADEMARK NOTE

Trademarks apply to the following products presented in this publication: COLORSTEEL, Masterspec and SMARTSPEC.

CALL US TODAY

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Technical helpline: **0800 333 247**

Technical email: roofing@steelandtube.co.nz

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OIL CANNING

Oil canning or undulations in the pan is an architectural feature that may occur in flat areas of metal claddings. However, this feature does not affect the strength or performance of the cladding. Oil canning may occur during its roll-forming process and/or installation stage and during the product's thermal expansion.

IMPORTANT PUBLICATIONS

For your installation to perform to its potential, it is essential that it is designed, installed and maintained in accordance with good trade practice. For further information, please refer to:

- NZS E2/AS1
- BRANZ: Good Profiled Metal Roofing Practice
- MBIE - Guide to tolerances, materials and workmanship in new residential construction 2015
- NZMRM: New Zealand Metal Roofing and Wall Cladding Code of Practice
- NZMRM: Installation Guide – Metal Long Run Roofing and Cladding
- RANZ: How To Guides
- Steel & Tube Roofing Solutions Product Guide
- New Zealand Steel: Installers Guide
- New Zealand Steel: Maintenance Recommendations Bulletin
- New Zealand Steel: Environmental Categories, Warranty & Product Maintenance Recommendations Brochure

INSTALLERS

A list of local installers for your area and contract type is available from your local Steel & Tube branch or visit steelandtube.co.nz/installer