

TRS WEATHERBOARD

Architectural Cladding



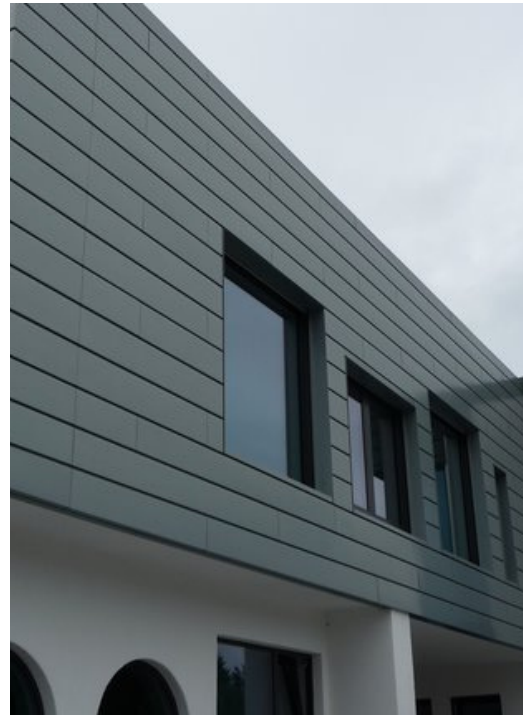
About TRS WEATHERBOARD

TRS weatherboard is a low-maintenance alternative to timber weatherboard, with the appeal of a classic paneling and simplicity of installation. TRS metal weatherboard is a very cost effective and attractive system that can give classic finish for existing or new buildings. The system belongs to the rain-screen sector (wall cladding installed with a pressure equalized, ventilated air space). It requires vapour barrier or waterproof membrane behind the supporting framework.



The KiwiColour® range of pre-painted steel products have been developed specifically to withstand the higher levels of UV and salt air in the New Zealand environment.

- Combines form, function and durability to meet your design and project requirements from roofing products and rainwater systems through to building cladding and interior.
- Opens a vast world of design possibilities for architects, product designers and manufacturers in an extensive range of colour available on our colour charts.
- Ensures a superior, longer lasting finish to steel products and is available in three paint finishes; VITOR+, VITOR+ZX or LUX, depending on your environmental and aesthetic requirements.



VITOR⁺ **VITOR^{+ZX}**
LUX[™]





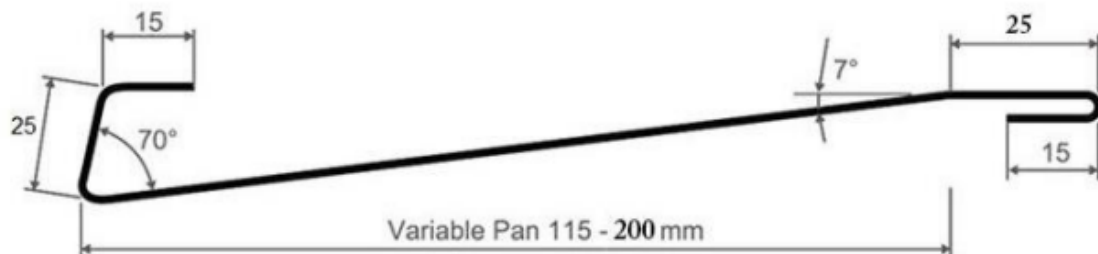
APPLICATION

TRS weatherboard step panels are ideal for use on new or existing buildings. They are installed as conventional weatherboard planks, resembling the look of a bevel back weatherboard wood paneling.

Areas of application include:

- Facade
- Chimney cladding
- Interior feature walls

PANEL DETAILS



Suitable for wall cladding

Variable pan A from 115 to 200 mm
Max panel length - 6.0 m for pre-painted steel
4.0 m for any other material

Can be manufactured in full range of materials:

- o Copper
- o Stainless Steel
- o Titanium Zinc
- o Aluminum
- o VITOR+, VITOR ZX or LUX 0.55 Steel

DIMENSIONS

Panel depth is fixed to 25 mm.

Maximum panel width will depend on the material chosen.

Thermal expansion/contraction are the key deciding factors.

We will recommend maximum 4.0 m length for copper, zinc, aluminum or stainless steel.

For any pre-painted steel, we recommend 6.0 m maximum.

DESIGN CONSIDERATIONS

TRS weatherboard step panels can be only installed horizontally.

Special attention is needed to position any penetrations in the walls so that they are aligned with the joints - horizontally and /or vertically.

Because of waterproofing requirements, TRS weatherboard step panels cannot be notched around any penetrations.

Please consult with The Roofing Store for specific design dimensions.

SUPPORTING FRAMEWORK

A. Metal sub-frame

The system can be fixed on a metal framework composed of adjustable brackets and cladding rails made of galvanized steel or aluminum.

The brackets fixed to the structure are used to adjust the cladding rails (minimum thickness 2.5 mm for aluminum) which act as a support for the cladding.

The minimum support of the rails is 40 mm.

Screws protected against corrosion and rawl plugs are used according to the framework manufacturer's specification.

Consult our technical department for further information.

Setting out, assembling the angle brackets, fixing the insulation and installing the panels must be carried out in accordance with the appropriate manufacturer's recommendations.

To meet the requirements for mechanical resistance (intrinsic weight and resistance to wind pressure), the maximum centre to centre distance between the brackets is 600 mm.

The elbow brackets are fixed in place to provide cross fixing in the longitudinal direction of the panels.

Transverse joints - for horizontal fixing, the framework must provide a minimum support surface of 100 mm. For vertical fixing, one rail must be placed at each side of the joint.



B. Timber Framework

The timber supports used as supports for fixing the cladding must be soft wood (e.g. pine).

They should be sufficiently durable to meet the conditions of use dictated by the façade in question.

Any wood treatment products (fungicides, insecticides) must be water based.

The timber supports must present a minimum supporting surface of 40 mm for fixing the panels.

To fix timber battens to the support, galvanized (adjustable or non-adjustable) steel brackets are used.

The timber framework and any thermal insulation used must be fixed in compliance with local standards to ensure a flat support for the cladding.

The maximum centre to centre distance of the battens is 600 mm.

These battens must be positioned so that they are perpendicular to the longitudinal direction of the profiles.

Ventilation at the top and bottom of the cladding is provided by air inlets and outlets which should be protected by a perforated grid.

Sections are calculated to ensure satisfactory ventilation.

For horizontally fixed panels or panels fixed vertically with reinforcement on the back (in accessible area), there must be a minimum continuous space of 20 mm between the insulation (if any) and the edges of TRS weatherboard step panels.

FIXINGS

TRS weatherboard step panel is fixed with concealed U-clips to the supporting framework.

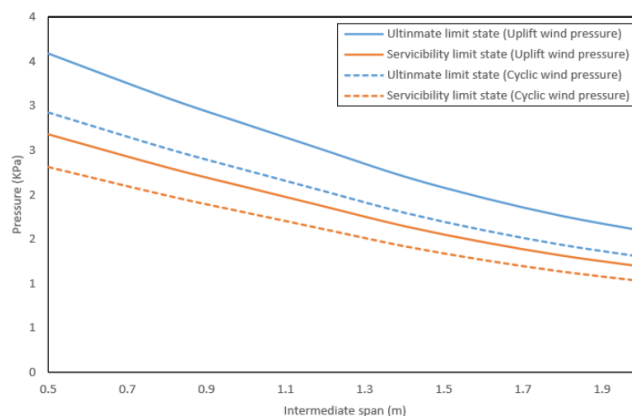
Factors that can affect the lengths of panels are:

- o Manufacturing location
- o Access to work area
- o Design and detailing
- o Choice of profile

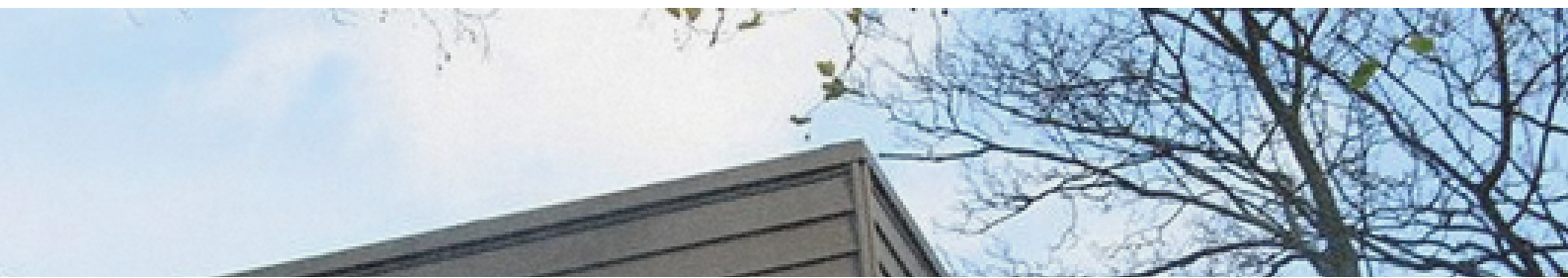
Please consult with The Roofing Store for technical advice.

WIND LOADS

Wind loads to be determined by designer for each project. For wall cladding and high wind loads areas narrower pan widths should be used. We can recommend suitable materials and sizes. Please consult with The Roofing Store.



Load-span graphs for 0.55 mm thick, G300 grade steel TRS weatherboard



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QUALITY ROOFING MADE EASY

For further information regarding interlocking or other products within our range please visit or contact your local branch.

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**The Roofing Store**

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