

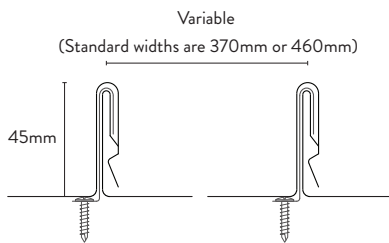
## DESCRIPTION

The Steelformers Quattro range consists of proprietary metal tray roofing and wall cladding systems manufactured by long-run roll forming processes, using a concealed fixing system directly onto purlins, a substrate or through cavity battens at recommended spans.

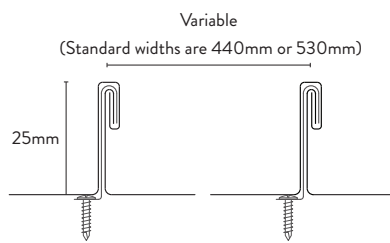
Offering versatility in design, the Quattro range is available in various profiles, including 45MM SNAPSEAM, DOUBLE STANDING SEAM, NAILSTRIP CLADDING, 25MM SNAPSEAM AND TCS CLADDING.

The pan (or tray) sizes range from 185mm to 530mm and are variable on request. It is mandatory practice the pans are run with swages for extra rigidity and strength, which is important in reducing wind driven roof noise, as well as assisting in the reduction of oil canning. *\*It will be at the discretion of Steelformers (on a case by case basis) to run the pans without swages.*

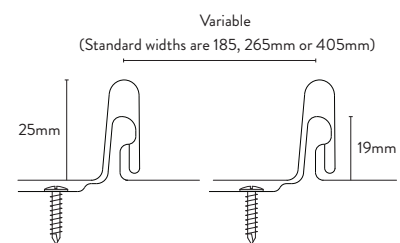
### 45mm SNAPSEAM



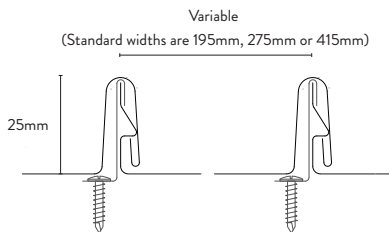
### DOUBLE STANDING SEAM



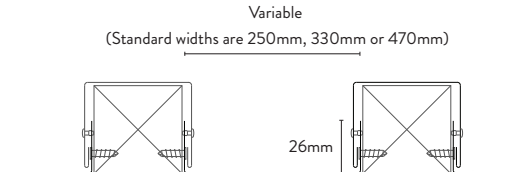
### NAILSTRIP CLADDING



### 25mm SNAPSEAM



### TCS CLADDING



## SCOPE OF USE

Generally used as roofing or cladding\* for residential and commercial purposes. *\*Nailstrip and TCS Cladding profiles are for use as cladding only.*

## LIMITATIONS

There are limitations on the use of the product and compatibility with other building materials. Incompatible products in contact with or run-off from may cause premature failure and not reach the required performance. Contact with other materials must be in accordance with E2/AS1 and the NZMRM Code of Practice.

There are location limitations for the coated steel products. Refer to the coated metal product manufacturers for location limitations and maintenance requirements.

The minimum pitch for Steelformers Quattro 45mm Snapseam, Double Standing Seam and 25mm Snapseam is 3°. Quattro Nailstrip Cladding and TCS Cladding is limited to use as cladding only.

## DESIGN

Design information is available from the NZMRM Code of Practice, at [www.metalroofing.org.nz/cop](http://www.metalroofing.org.nz/cop). The Acceptable Solutions E2/AS1 and E2/AS4 also have design solutions for some residential building applications.

## MATERIALS

1. Metallic coated grade G300/G550 steel complying with AS 1397 type AZ 150 coating
2. Prepainted grade G300/G550 steel complying with AS 1397 coated in accordance to AS/NZS 2728 to Type 4 (Colorcote® Zinacore™) or Type 6 (Colorcote® MagnaFlow™) and Colorsteel Maxam®
3. Unpainted or Prepainted H34/H36 aluminium (Colorsteel Altimate®/Colorcote® Alumiguard™)

## INSTALLATION

Installation should be carried out by a suitable qualified practitioner in accordance with manufacturers recommendations, the NZMRM Code of Practice, RANZ Metal Roofing and Wall Cladding Guide and for Residential housing E2/AS1 and E2/AS4.

Installers should take appropriate safety measures when working at height.

For new residential construction, a Licensed Building Practitioner is required for the installation.

### Roofing applications

Only 45mm Snapseam\*, Double Standing Seam and 25mm Snapseam may be used as a roofing product and are installed over open purlins or a solid substrate, using a concealed fixing for timber framed buildings designed and constructed in accordance with B1/AS1, NZS3604 and E2/AS1 and designed steel framed buildings to NASH 3405. Panels are joined by clipping and/or seaming and do not have any external through fixings. The minimum roof pitch allowance is 3°. Flashings, building underlays and fixings must be in accordance with E2/AS1 and/or the NZMRM Code of Practice. *\*45mm Snapseam can be installed over purlin supports in low, medium and high wind zones.*

### Fixing patterns

Fixing is recommended at 450mm centres in all wind zones.

In addition, a breather type underlay (such as Dupont™ Tyvek® Metal Roof Underlay, or an equivalent product at Steelformers discretion) is recommended over the substructure. Tyvek® metal roofing underlay is vapour-permeable, yet water resistant and airtight, helping reduce condensation, improve airtightness, add thermal efficiency and protect structural integrity.

## Cladding applications

The Quattro range, when used as a cladding, are installed over a drained and ventilated cavity system (make reference to E2 and the New Zealand Building Code for cavity requirements). In unlined areas, a cavity system is not required. Steelformers recommends nog spacing at 600mm centres. Flashings, building underlays and fixings must be in accordance with E2/AS1 and/or the NZMRM Code of Practice.

## MAINTENANCE

Maintenance must be carried out in accordance with the manufacturer's recommendations.

New Zealand Steel: Refer to the "Residential Warranty, Environmental Categories, & Product Maintenance" brochure. Available for download at [www.colorsteel.co.nz](http://www.colorsteel.co.nz)

Pacific Coil Coaters: Refer to the "Minimum Maintenance Schedule" brochure. Available from [www.colorcote.co.nz](http://www.colorcote.co.nz)

Unwashed areas (areas that are not rain-washed), such as wall cladding under eaves, soffits and sheltered roof areas including those under trees must be regularly manually washed to avoid the build-up of salt and debris.

## COMPLIANCE WITH THE NEW ZEALAND BUILDING CODE (NZBC)

The Steelformers Quattro range and associated flashings made from the equivalent material, used in combination with fasteners, underlays and clear sheeting accredited by NZMRM as complying to their product performance standards, will contribute to meeting the following performance requirements of the NZBC:

### NZBC B1 Structure

The Steelformers Quattro range has been tested in accordance with AS/NZS 1170:2002.

### NZBC B2 Durability

The Steelformers Quattro range is 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.

### NZBC C Fire

Colorsteel Maxam®, Colorcote® ZinaCore™ and Colorcote® Magnaflow™ are rated as a Group 1-S material when tested in accordance with ISO 5660:2002 Part 2.

### NZBC E2 External Moisture

The Steelformers Quattro range is generally in accordance with the NZMRM Code of Practice & E2/AS1. Roofing and wall cladding systems demonstrate compliance with clause E2.

### NZBC E3 Internal Moisture

When used with an absorbent, permeable underlay complying with NZS 2295:2006, the products in the Steelformers Quattro range will contribute to compliance with NZBC E3.3.1. Ceiling spaces of sarked roofs, skillion roofs, barrel curved roofs, flat roofs and roofs over moisture laden environments must have provision for adequate ventilation.



# STEELFORMERS QUATTRO RANGE

PROFILED METAL ROOFING AND CLADDING

## NZBC F2 Hazardous Building Materials

The Steelformers Quattro products manufactured from metallic coated, prepainted metallic coated or pre-painted aluminum will meet the performance requirements of F2, 2.3.1.

## NZBC G12 Water Supplies

Colorsteel and Colorcote® tested in accordance with AS/NZS 4020:2005 passed the requirements for products in contact with drinking water.

## Evidence

The product has and can make available the following additional evidence to support the above statements:

NZ Metal Roofing Manufacturers Association Inc. (NZMRM) Code of Practice.

## PRODUCT BAN

The products from the Steelformers Quattro range are not subject to any warning or bans under the Building Act 2004.



**STEELFORMERS**

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WANGANUI STEELFORMERS KING COUNTRY LONGRUN

THE ROOF OVER TARANAKI'S HEAD SINCE '83

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