

General and product information

PURPOSE

This guide is for the installation of Proform Steel Metal Wall Cladding. The profiles are:

- Proform Steel Battenform Metal Cladding
- Proform Steel Euroform AS Metal Cladding
- Proform Steel Snapform Metal Cladding.

For the purposes of this Installation Guide, these profiles are termed collectively as Proform Steel Metal Wall Cladding.

IMPORTANT DOCUMENTS

This guide must be read in conjunction with:

- the relevant pass™ for the selected Proform Steel Metal Wall Cladding
- the Proform Steel Metal Wall Cladding Specification
- the Proform Steel Metal Cladding Care and Maintenance Guide.

SKILLS REQUIRED

Competent designers can use this guide. Where applicable, the person specifying the Proform Steel Metal Wall Cladding must be able to meet all RBW provisions.

FOR MORE HELP

For further information and assistance visit proformsteel.co.nz.

While all reasonable efforts have been made to ensure the accuracy of information provided, please note that this guide is subject to change and should be considered as a guide only.

FOR OUR WARRANTY

Refer to proformsteel.co.nz.

PRODUCT DESCRIPTION

Proform Steel Battenform Metal Cladding is a metal tray cladding profile manufactured from 240 mm to 600 mm wide 0.55 mm pre-painted steel (Colorsteelâ). The profiles have a wide pan and a 90° crest to the pan. The profiles incorporate an overlocking crest upstand of a maximum of 30 mm in height and a maximum 40 mm in width and have a variable pan width of 80 mm to 500 mm.

Proform Steel Euroform AS Metal Cladding is a metal tray cladding profile manufactured from 0.55 mm pre-painted steel, 0.80 mm pre-painted aluminium, 0.55 mm copper, and 0.70 mm zinc. It has a seam height of 25 mm to 38 mm and a variable pan size of 150 mm to 535 mm. For the Euroform AS profile, the jointing method is by way of hook and cover crest. The cover is 13 mm on the crest flat.

Proform Steel Snapform Metal Cladding is a metal tray cladding profile manufactured from 0.55 mm pre-painted steel and 0.80 mm pre-painted aluminium. It has a seam height of 38 mm and a variable pan size of 150 mm to 510 mm. For the Snapform profile, jointing method is by way of a male/female folded seam. The male is a 37 mm vertical crest with 30° racking return. Once fitted over and push down into position the female vertical crest is locked with a total cover of 25 mm.

SCOPE AND LIMITATIONS

For scope of use, limitations, conditions and statement of building code compliance, refer to the relevant pass™ for the selected Proform Steel Metal Wall Cladding.

Pre-Installation

HEALTH AND SAFETY

- › When cutting or drilling, ensure adequate ventilation.
- › Ensure proper support when cutting and fixing the cladding.
- › Wear appropriate safety equipment, clothing, footwear, and eye protection.
- › Use all tools in accordance with relevant instruction manuals.
- › Keep tools sharp.
- › Plan and monitor a safe approach for working at height; select and use the right equipment. Do not step directly on the sheets between roof purlins. Always use stepping ladders or crawling boards supported by a minimum of three roof structural elements.
- › Clear the work area of any obstruction before starting.

Further information can be found in the following documents:

- › Small Construction Sites, the Absolutely Essential Health and Safety Toolkit by WorkSafe. Available for download from worksafe.govt.nz/topic-and-industry/building-and-construction/absolutely-essential-toolkit/.
- › Health and Safety at Work, Quick Reference Guide by WorkSafe. Available for download from worksafe.govt.nz/managing-health-and-safety/getting-started/health-and-safety-at-work-quick-reference-guide/.

HANDLING AND STORAGE

Handling

Take care when transporting, handling, and storing the cladding to avoid damage.

Unload sheets manually and carry them on edge. If unloading mechanically, ensure there are at least two well-spaced supports or use a pallet to prevent excessive bending or sagging. When using a crane or Hiab, consider using a spreader bar.

Avoid handling of single sheets in high winds.

Storage

Storage is critical. Failure to follow these requirements could result in poor performance or appearance of the product.

Store the cladding in a dry and well-ventilated environment, away from direct sunlight.

Stack the cladding on a flat, dry surface, laying them flat on bearers positioned no more than 1 metre apart and at least 150 mm off the ground. Place plastic underneath the bearers and cover the stack with a tarpaulin to ensure the materials remain dry. If the product needs to be stored for an extended period (more than 14 days), it must be stored indoors.

TOOLS AND EQUIPMENT REQUIRED

Hand seamers, seaming pliers, rivet setters, turn up and turn down tools, nylon faced hammer, shears, and standard carpentry tools are required.

Follow good trade practice and the supplier's instructions when using the tools.

Installation

STEP 1 BUILDING CONSENT DOCUMENTATION

Access and view building consent documentation.

Access and view Proform Steel Metal Cladding details in building consent documentation/ specifications or access the relevant information from proformsteel.co.nz.

NZS 3604:2011 Timber-framed buildings, NZMRM Code of Practice and Acceptable Solutions E2/AS1 should also be available for reference.

STEP 2 CONFIRM THE SCOPE

Confirm the proposed use is within the scope and limitations of the relevant pass™.

STEP 3 CONFIRM THE PRIMARY STRUCTURE

Confirm the primary structure is installed in accordance with the building consent documentation and all the requirements for the selected substrate.

Confirm that the framing and substrate are straight and true and within the specified tolerances outlined in NZS 3604:2011 Timber-framed buildings Section 2 and NASH Standard Part 2:2019 Light Steel Framed Buildings, Table 2.1, Section 2.5.

Studs must be at maximum 600 mm centres, with nogs and dwangs fitted between the studs at maximum 600 mm centres for Euroform AS and 800 mm centres for Battenform and Snapform. Where eaves are to be installed, ensure a line of nogs or dwangs is installed below the soffit drop for top edge fixings.

Ensure the framing moisture content is less than 20 %.

STEP 4 CONFIRM THE BUILDING UNDERLAY

Ensure the building underlay installed complies with Table 23 of Acceptable Solution E2/AS1. Install the wrap in accordance with the manufacturer's instructions. Install the wrap into window openings in accordance with Wanz Guide to Window Installation instructions and Acceptable Solution E2/AS1. A rigid air barrier that complies with Table 23 of Acceptable Solution E2/AS1 must be installed where the cladding system to be used is in an extra high wind zone.

STEP 5 INSTALL THE FLASHINGS

Ensure the flexible flashing tapes are compatible with the building underlay and suitable for the specific location.

Proform supplied flashings must be used where detailed.

Where the joinery includes standard profile flashings (i.e., joinery supplier head flashings), refer to the building consent plans for profiles and ensure the dimensions are in keeping with the specific details specified.

Ensure all necessary flashings are installed; pipe, flue penetrations, kick-out, and back flashings with hems are installed at all corners; and head flashing stop ends are installed at windows and doors.

U shape flashing are to be installed at soffits.

Back flashings measuring 100 mm x 100 mm are required for internal and external corners; these must have solid backing. Aluminium flashings can be used if no solid backing is installed.

Install air seals to holes, penetrations, and voids using backing rod to suit the gap and sealant.

Repair and replace any rips or tears in building wrap.

Excess sealant and expanding foam should be trimmed back behind the framing external face.

STEP 6 INSTALL THE CAVITY BATTENS AND CLOSERS

Battens must be H3.2 treated castellated rear and smooth front face timber battens, minimum 40 mm x 18 mm. The battens must be structurally fixed horizontally to the framing in accordance with the BRANZ Build No. 154.

Install double battens to all corner junctions to ensure correct fixing of back flashings.

Ensure the cavity closers are installed continuously around the bottom of the cavity.

The top of the cavity must be closed off at the eave and/or roof cavity

Where studs are at 600 mm centres, an intermediate means of restraining the flexible underlay and insulation from bulging into the cavity shall be installed. An acceptable method to achieve this is using polypropylene tape at 300 mm centres fixed horizontally and drawn taut.

Install a suitable separation layer such as an additional layer of paper-based underlay over the cavity battens or strips of paper-based underlay on the face of the cavity battens.

Although E2/AS1 doesn't require a separation layer when timber has been treated with the less corrosive CuN treatment, it is prudent to still use a separation layer.

In locations in and above very high wind zones, when using the Proform Steel Metal Cladding system, it is advised to install 9 mm treated ply over the cavity battens. Additionally, apply an extra layer of paper-based underlay, tape, or anti-canning material to create an appropriate separation layer.

STEP 7 INSTALL THE CLADDING

Proform Steel Metal Cladding should be laid into the prevailing wind and sit neatly on the preceding sheet. They should be fixed within the recommended support spacings. Avoid 'stretching' the width of the sheet when installing, as this could allow wind and rain to enter. Edge fixing is mandatory for strength/spanning capability.

Clip fixing to be at 600 mm centres for Euroform AS and 800 mm centres for Battenform and Snapform, but this may vary according to wind loading and SED design.

Fixings are supplied in the specified finish. The length and size are determined as per the NZMRM Code of Practice or specific design.

Cut only by shears, power shears, or hand snips. Do not use metal friction blades or reciprocating saws as they generate fine hot particles that can embed deep into the coating surface and corrode rapidly.

STEP 8 COMPLETION

Check to ensure all components are installed correctly and in accordance with this document.

Ensure all drilling and cutting swarf is removed by mechanical blower or washing.

Ensure all care and maintenance information is available for the building owner.
