

NAIL STRIP

INSTALLATION DOCUMENT

Cladding with broad flat pans and a lower rib combine to generate a visually dynamic facade design.

This versatile cladding profile provides a clean overall outlook that would be suitable for any architectural endeavour.

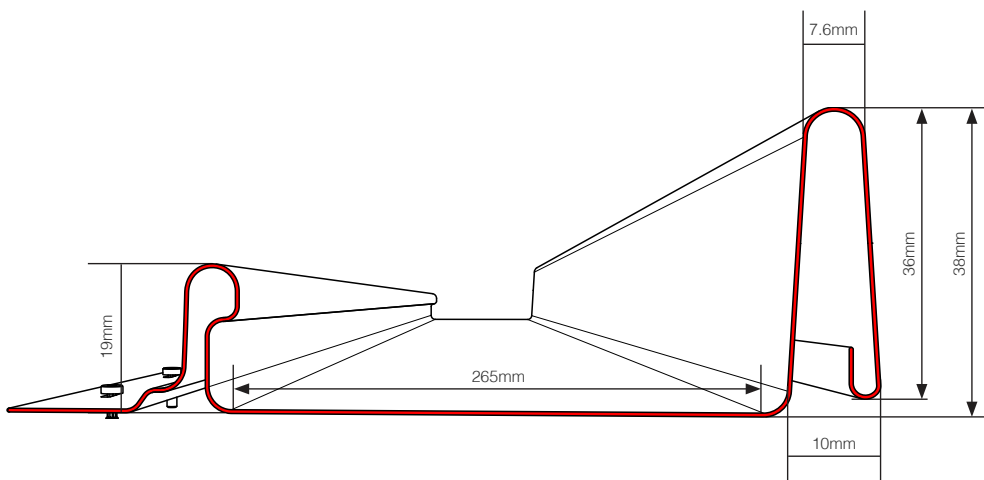
OVERVIEW

] COLORSPAN Nail Strip is an adjustable recessed panel cladding system.

] The panelling system results in a dynamic visual that consists of a series of continuous flowing thick bands neatly framed by thin ribs that lends to a range of effects through a combination of light and shadows.



Nail Strip Sheet Profile



SINGULAR PANEL SHEET PROFILE



] The profile comprises a wide recessed pan with a raised standing seam of 38mm in height.

Additional Notes:

This manual is a guide for Colorspan Nail Strip specifications and installation techniques only.

Colorspan is supported and guided by expert steel walling and roofing installers throughout the entire process to ensure proper quality control.



Compliant
checked and
verified by
Colorspan

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PRODUCT SPECIFICATIONS

Additional Notes:

Panel Coverage Distances is recommended to be at 265mm or below when installed onto battens.

However, it can be customised from a range of 180mm - 500mm if deemed necessary, with a flat substrate installed to ensure proper installation of the panel.

Coverage Distance (mm)	265mm
Metal Thickness (mm)	0.55mm
Rib Height (mm)	38mm
Sheet Length (mm)	850mm min. ~ 8000mm max.
Panel Tolerance (mm)	Sheet length: ± 7 mm Covering width: ± 4 mm
Thermal Expansion	2.9mm increase on average for every 5m @50°C change in temp.
Minimum Roof Pitch	3 Degrees

MATERIALS

Material	Thickness (mm)	Weight per m2	Warranty	Flammability
Colorbond	0.55mm	7.31kg	Up to 15 years	Non-Combustible
Greencoat	0.55mm	7.31kg	Up to 50 years	Non-Combustible
Nedzink	0.70mm	7.97kg	Up to 10 years	Non-Combustible
Aluminium	0.80mm	3.59kg	Up to 20 years	Non-Combustible
Copper	0.80mm	11.36kg	Up to 30 years	Non-Combustible
Weathering Steel	0.75mm	9.47kg	Up to 10 years	Non-Combustible

*Please contact our specialised Colorspan team for further information about material specifications.

FASTENER SPECIFICATIONS

] Colorspan Nail Strip is concealed & pierce-fixed to batten supports, where the fastener screws pass through the sheeting at the underlap edge.

] Fasteners are required to be screwed through the slotted holes or directly through.



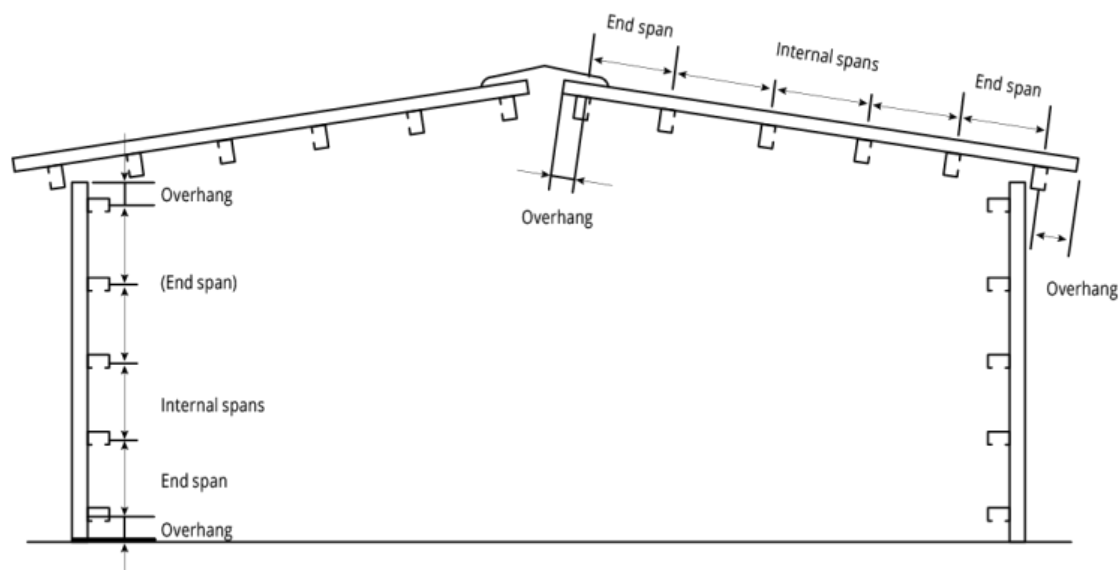
Wafer Head Metal Screw
(Steel)



Wafer Head Type-17 Metal Screw
(Plywood & Timber Battens)

Fixing-on Material	Application Technique
Fixing on Steel	10g-16x16 wafer head metal screw with a minimum Class-3 coating
Fixing on Plywood	10g-12x25 wafer head Type-17 metal screw with a minimum Class-3 coating
Fixing on Timber Battens	10g-12x25 wafer head Type-17 metal screw with a minimum Class-3 coating

LOAD SPAN TABLES (NON-CYCLONIC)



Sectional diagram showcasing Single, End & Internal & Overhang spans.

RECOMMENDED ROOF CLADDING SPANS (MAXIMUM)

Coverage Distance (mm)	Base Metal Thickness (mm)	Single Span (mm)	End Span (mm)	Internal Span (mm)	Overhang Span (mm)
265mm	0.55mm	600mm	600mm	600mm	600mm

RECOMMENDED WALL CLADDING SPANS (MAXIMUM)

Coverage Distance (mm)	Base Metal Thickness (mm)	Single Span (mm)	End Span (mm)	Internal Span (mm)	Overhang Span (mm)
265mm	0.55mm	900mm	900mm	1200mm	100mm

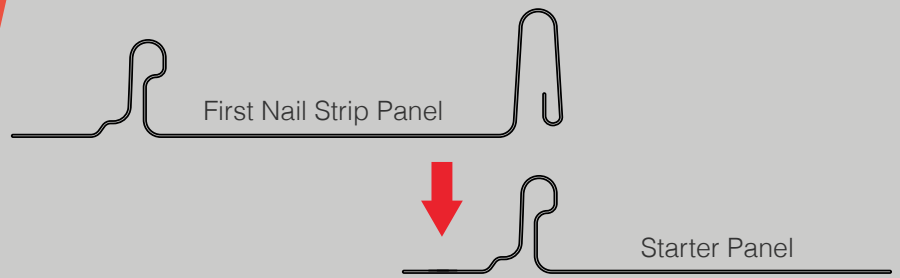
FLAMMABILITY & COMBUSTIBILITY

- All cladding profiles and materials from Colorspan are non-combustible.
- Colorspan products do not require a code mark certificate and is deemed to satisfy all requirements as per stated within the National Construction Code 2019 under AS1530.1 Section C1.9.(e).(v) and 3.7.1.1.(e).
- All pre-finished metal sheetings specified consists of a surface finish that is less than 1mm in thickness and has a Spread of Flame Index of 0.

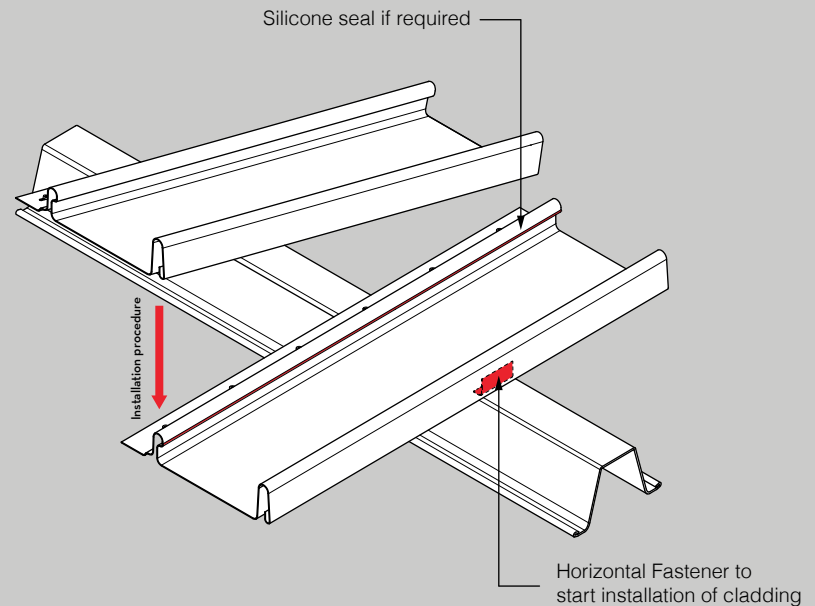
Additional Notes:

Colorspan's panelling products are the main components utilised in the construction of the built product, but they are not the only elements used throughout the process.

It is important to ensure that the other components used must also satisfy the necessary requirements instilled by the Australian Standards and the National Construction Code.



- A custom starter panel will be installed along the wall-edge before another Nail Strip panel is fixed over the under-lap edge to battens to ensure stability of the cladding.
- All panels can be directly installed on to steel battens, top hats and junction studs.



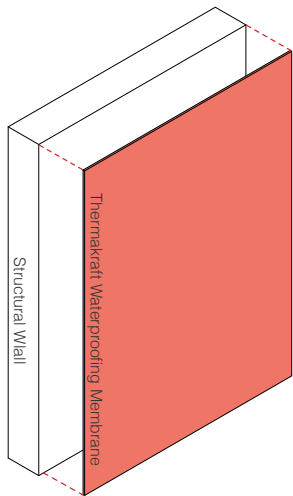
TOP HAT BATTENS

- Top Hat Battens are utilised in the fixation of support for lining material where the structural framework is not suitable for fixing directly to.
- A range of Junction Studs, Battens and Top Hats in various sizes and thicknesses are available from STUDCO to suit any cladding requirements for interior or exterior use.

Junction Stud Part No.	Rib Height (mm)	Total Coated Thickness (mm)
JS7515 	15mm	0.75mm
JS7525 	25mm	0.75mm
JS7535 	35mm	0.75mm

SYNTHETIC WALL WATERPROOFING MEMBRANE

- Watergate Plus by Thermakraft is a two-layer laminated pliable building membrane combining a Polyester non-woven layer with a high quality vapour permeable film.
- The membrane allows water vapour to pass through from inside the wall cavity whilst water from the exterior is kept out.



Thermakraft

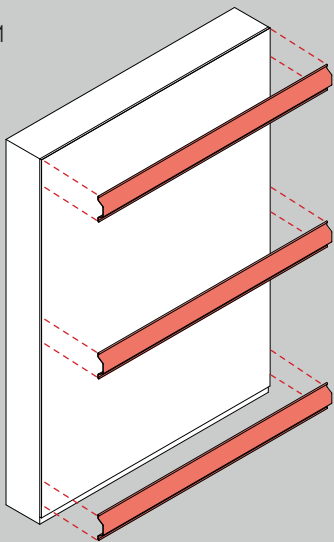
Watergate Plus comes in 5 roll sizes & 2 soffit roll sizes:

Width (mm)	Length (m)	Coverage (m2)
1370mm	36.5m	50m2
2740mm	30m	82m2
3000mm	30m	90m2

*Further information on Thermakraft Watergate Plus can be obtained at thermakraft.com.au

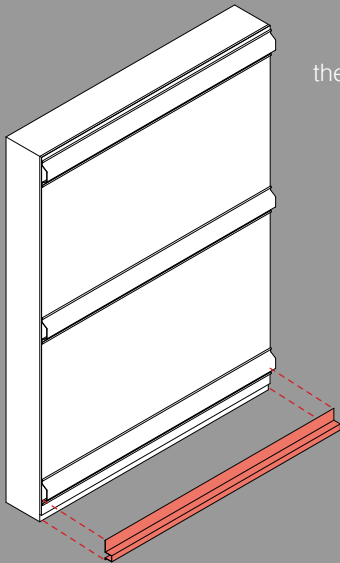
PANEL FIXING PROCEDURE

Step 1



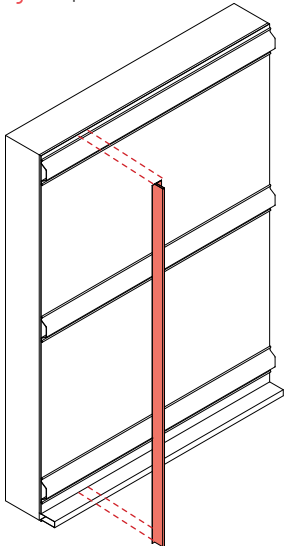
After applying the Thermakraft Watergate Plus Membrane on the structural wall, STUDCO Tophat Battens are then installed horizontally.

Step 2



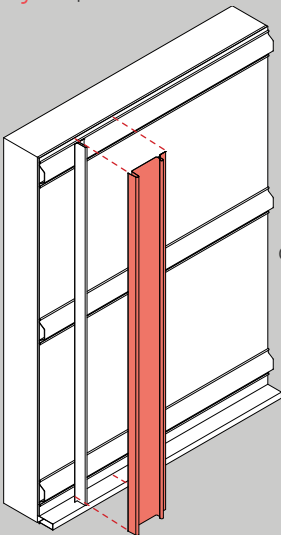
A Foot Mould is then installed at the bottom section of the wall.

Step 3



A Nail Strip starter flashing is attached and secured onto the wall after the substrate is waterproofed.

Step 4



When the positioning of the starter flashing is secured, the very first Nail Strip panel will be attached over the starter strip.

Additional Notes:

COLORSPAN Nail Strip panels are manufactured with a slotted side piece to allow for fasteners and screws to be used to allow for the fixing of panels directly onto substrate surfaces.

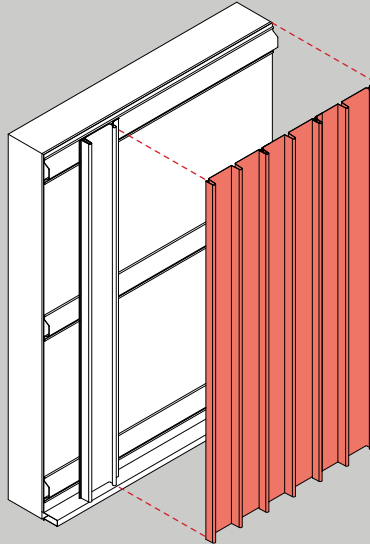
Disclaimer:

This installation sequence is just for general uses only.

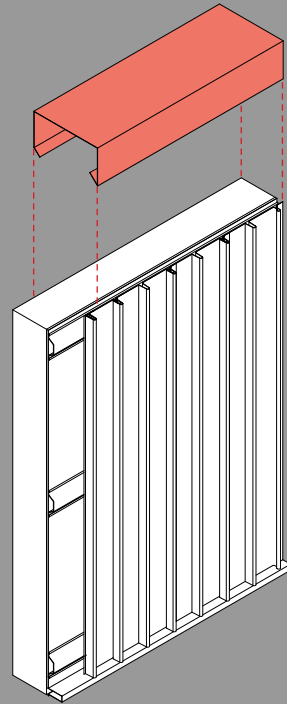
If a variable order is required, it is the responsibility of the installer to adhere to Australian Standards as well as the National Construction Code.

Step 5

Repeat Step 5 until the entire wall is fully cladded.



Step 6

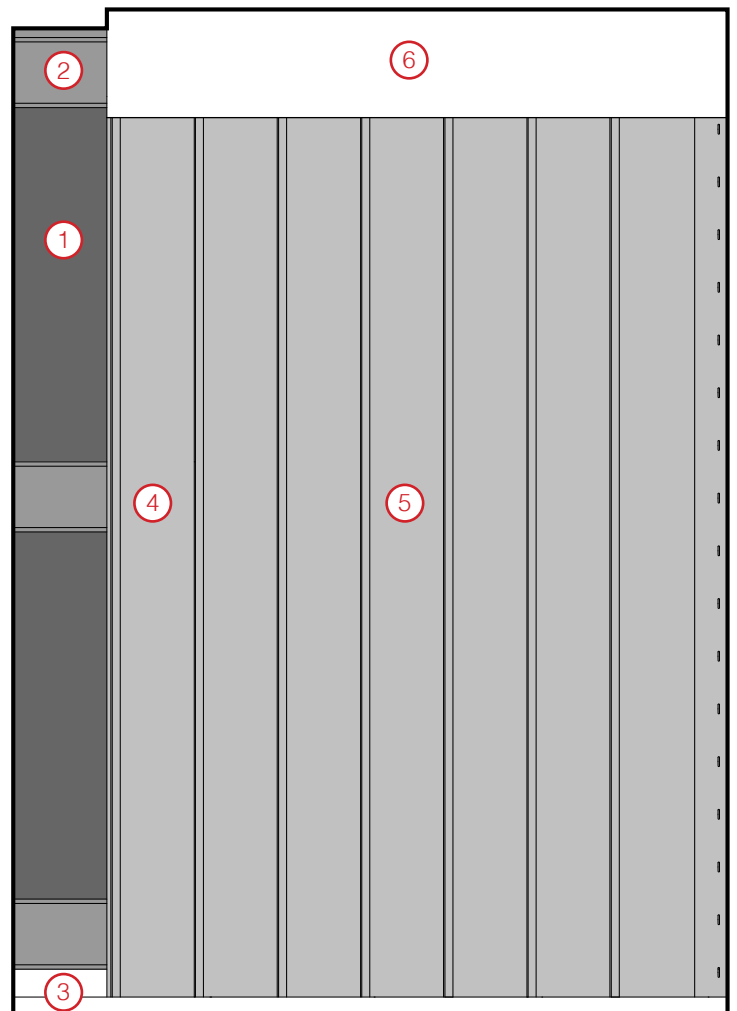


A Capping is placed on top to secure the panels in place and to ensure no water leakage.

Capping Profile



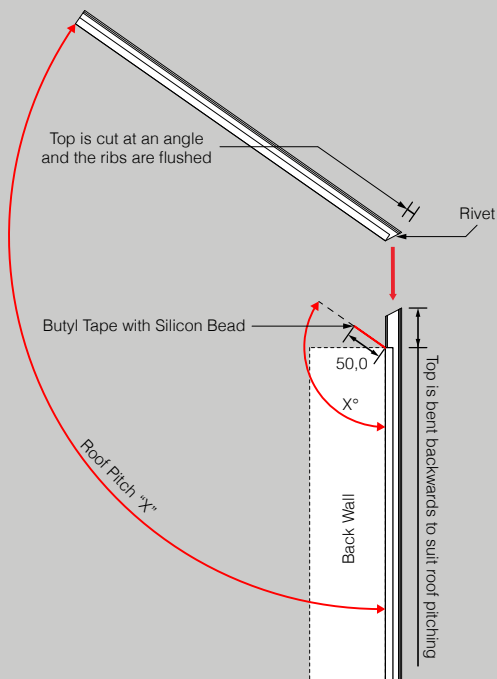
COMPLETED WALL PANEL INSTALLATION



1. Thermakraft Watertight Plus Weather Barrier Wall Wrap
2. STUDCO Tophat Battens
3. Foot Mould
4. Colorspan Nail Strip Starter Flashing
5. Colorspan Nail Strip Panel
6. Capping

ROOF-TO-WALL CONNECTION DETAIL

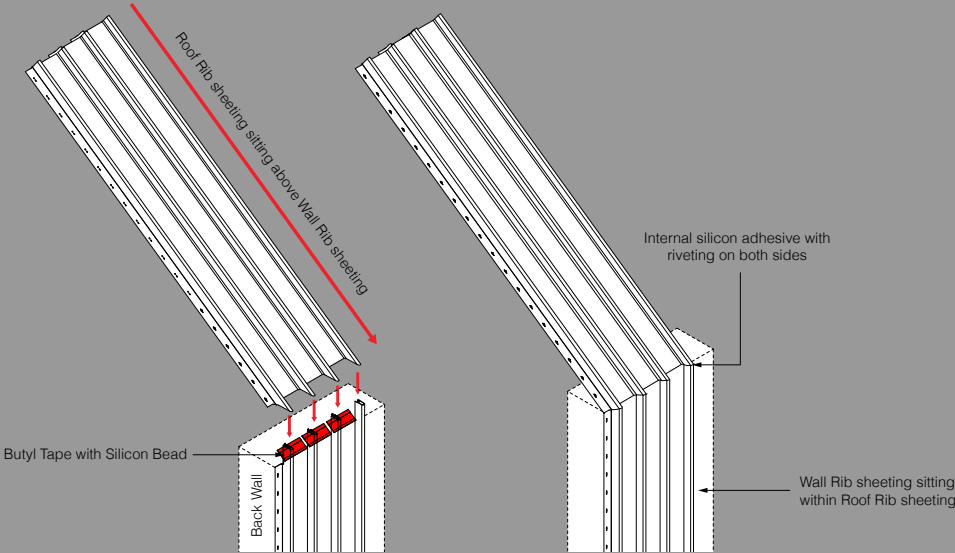
Step 1



A standardized 50mm (length can be increased if deemed required) underfold is bent at an angle to allow for easy installation of the Nail Strip Panel on to the wall or the roof.

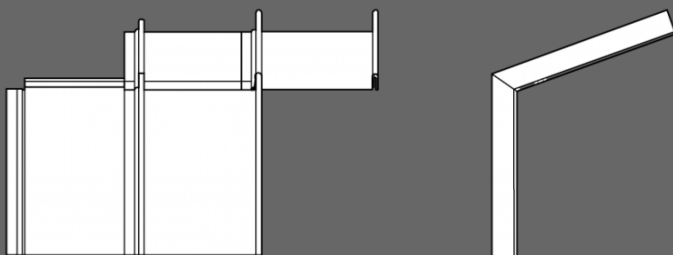
This installation method requires the wall cladding sheets to be fabricated 50mm in excess in comparison to the wall height.

Step 2

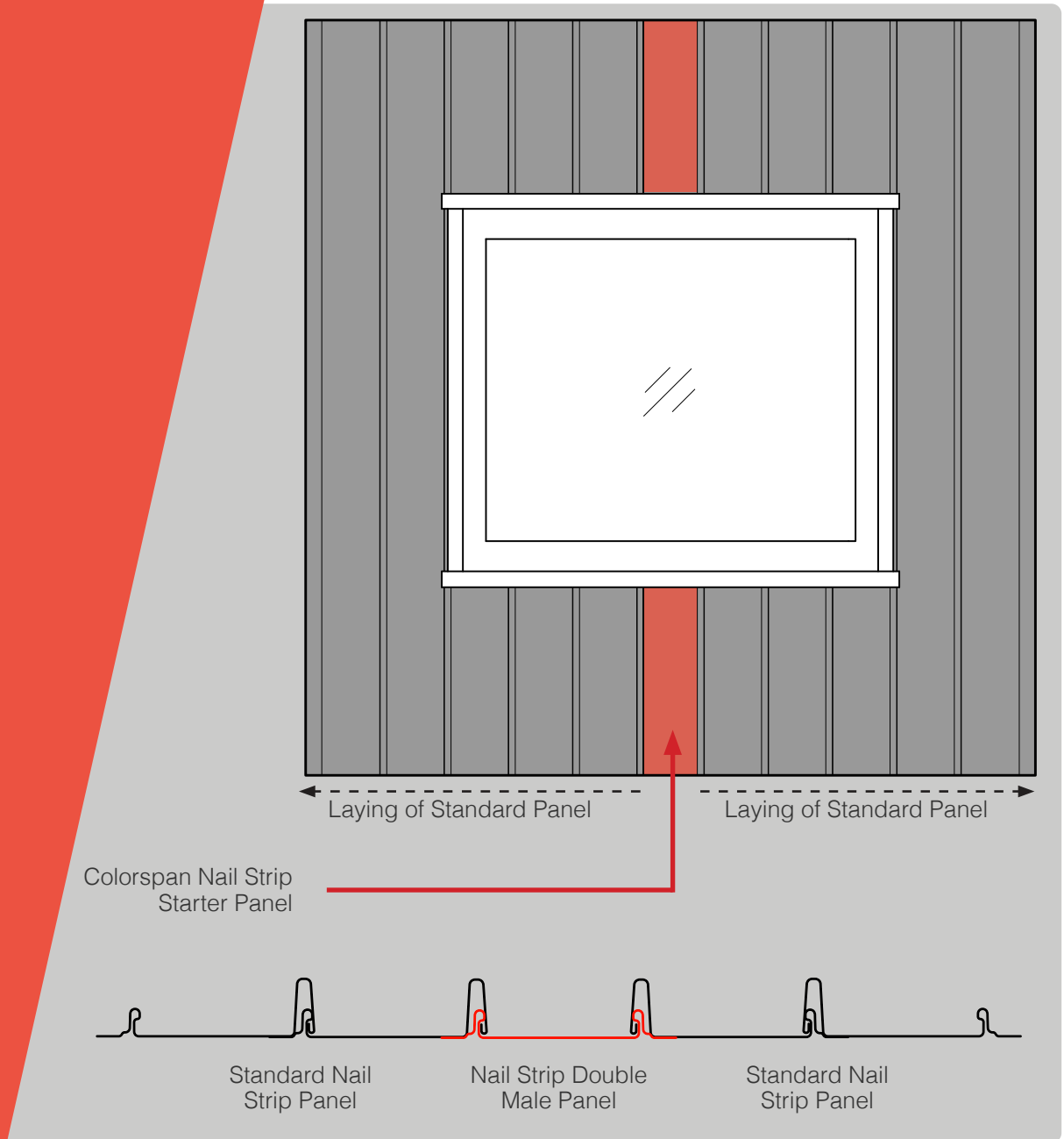


The roof sheet is notched at an angle to replicate the wall rib height, with the ribs being cut back to the pans.

Step 3



Butyl tape and silicone is used to ensure a weathertight sealing is achieved at the joint.



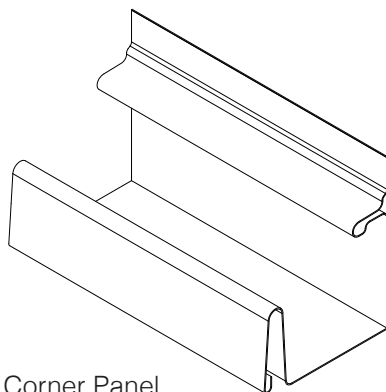
CUSTOM NAIL STRIP PANEL PROFILES



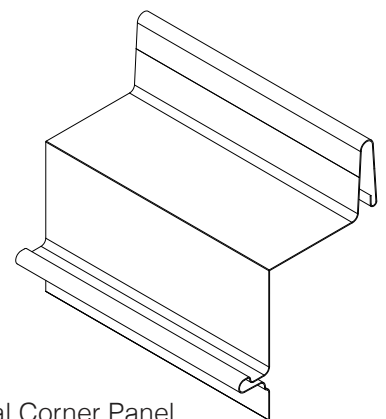
Nail Strip Double Female Panel



Nail Strip Double Male Panel

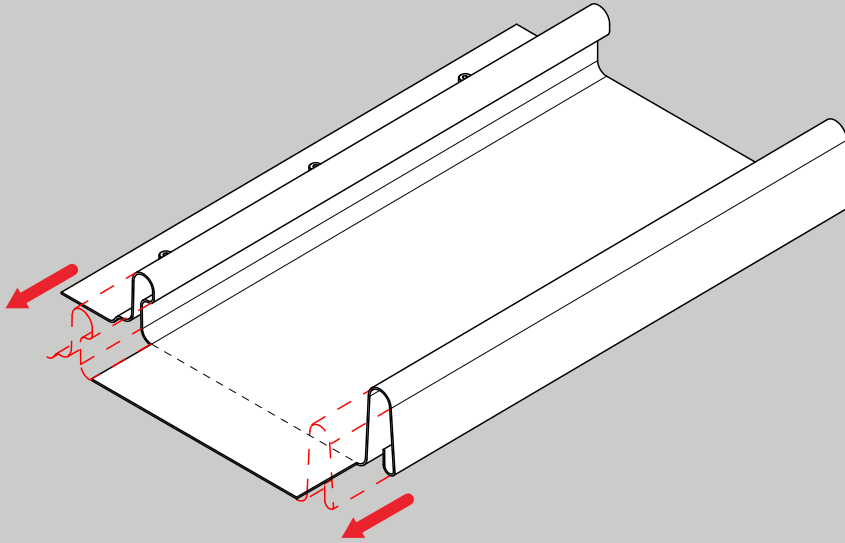


Internal Corner Panel



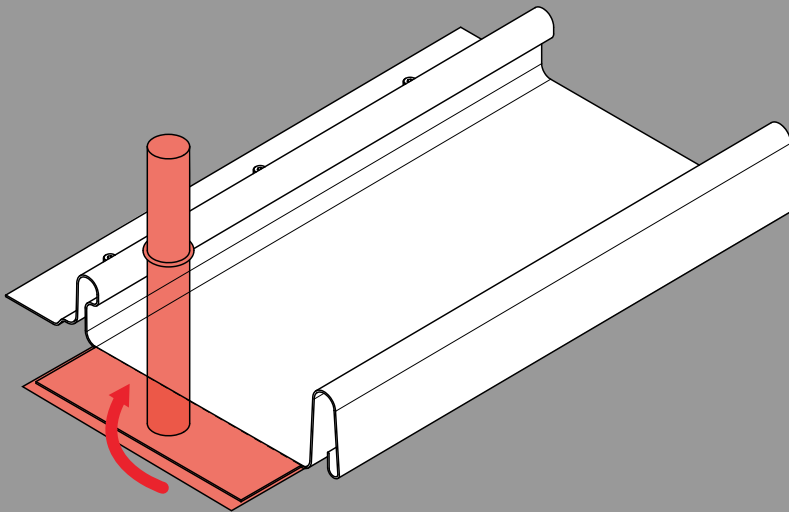
External Corner Panel

TYPICAL PANEL STOP-END PROCEDURE



Step 1

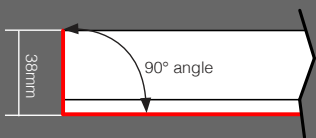
The panels of Nail Strip sheets require to be fabricated with an excess of 38mm in length in comparison to the original finished panel to be applicable for field hemmed ends.



Step 2

The plan of the sheet is placed into a hemming tool, with the front edge resting in between the ribs.

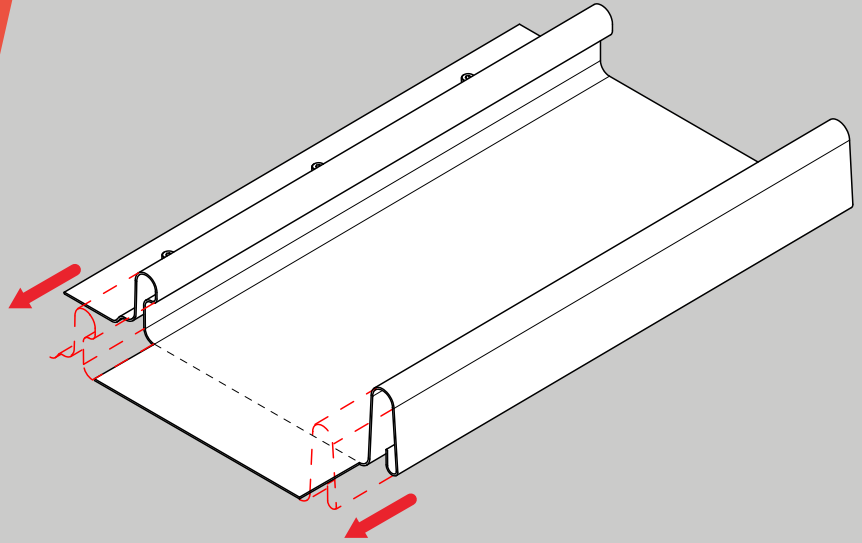
With pressure being placed against the sheet panel, the hemming tool is then rotated to a 90° angle upwards.



Step 3

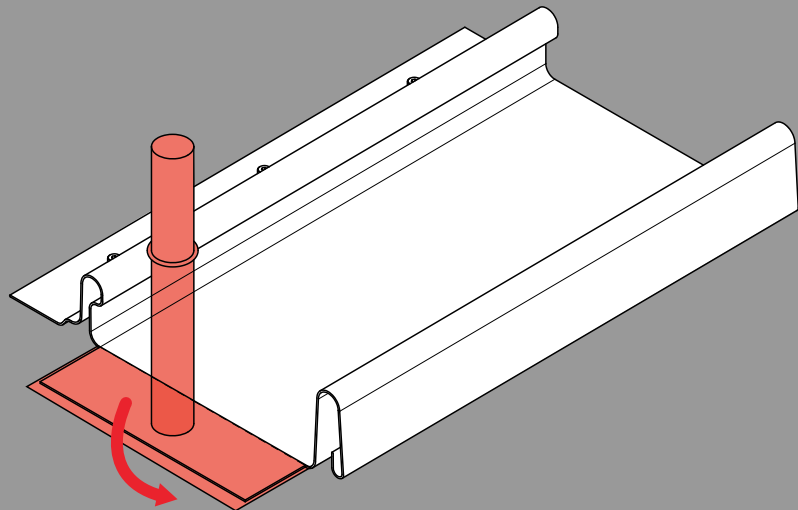
The front edge is bent and ready for quality inspection.

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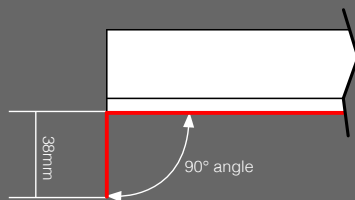
Step 1

The plan of the sheet is placed into a hemming tool, with the front edge resting in between the ribs.

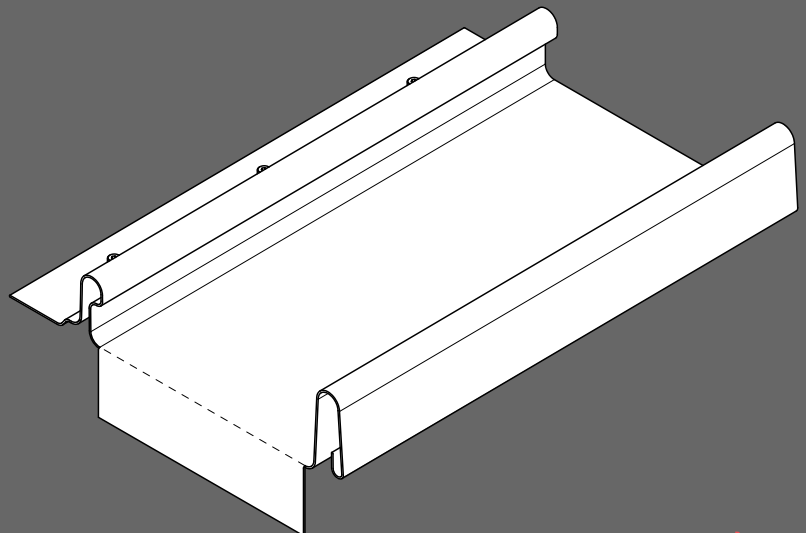


Step 2

With pressure being placed against the sheet panel, the hemming tool is then rotated to a 90° angle downwards.

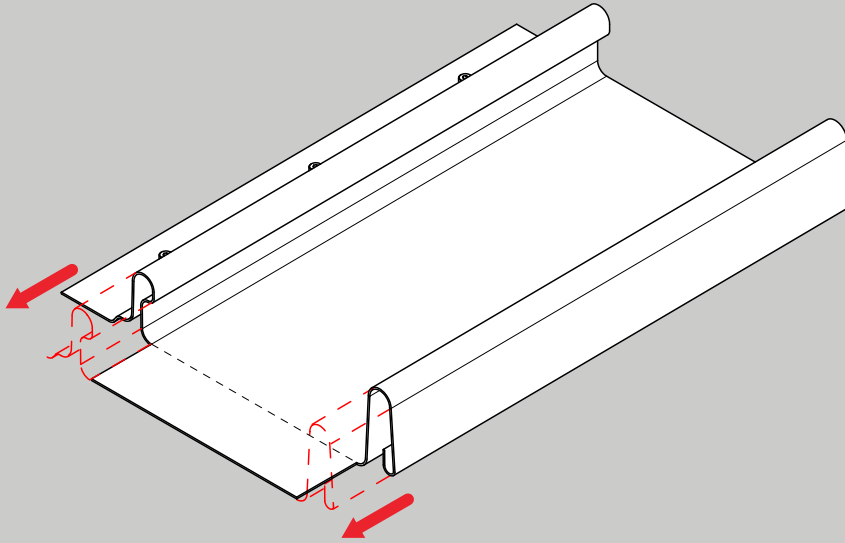


The front edge is bent and ready for quality inspection.



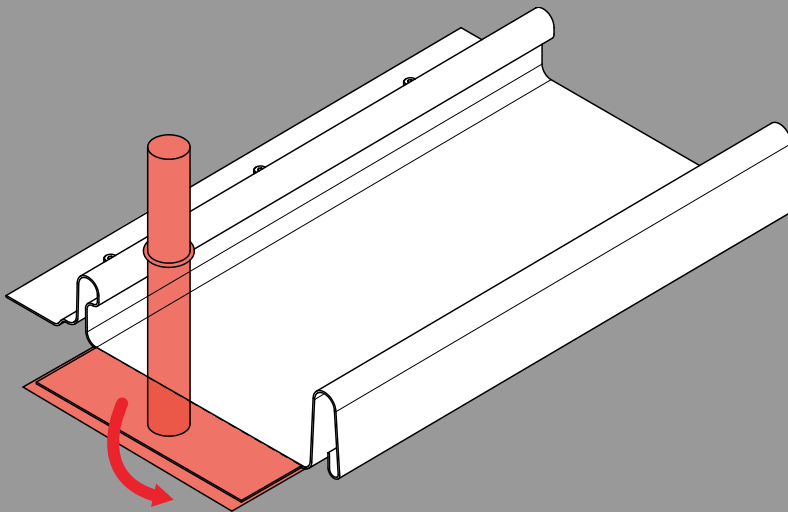
Step 3

TYPICAL PANEL UNDERFOLD PROCEDURE



Step 1

The panels of Nail Strip sheets require to be fabricated with an excess of 38mm in length in comparison to the original finished panel to be applicable for field hemmed ends.



Step 2

The plan of the sheet is placed into a hemming tool, with the front edge resting in between the ribs.

With pressure being placed against the sheet panel, the hemming tool is then rotated to a 90° angle upwards.

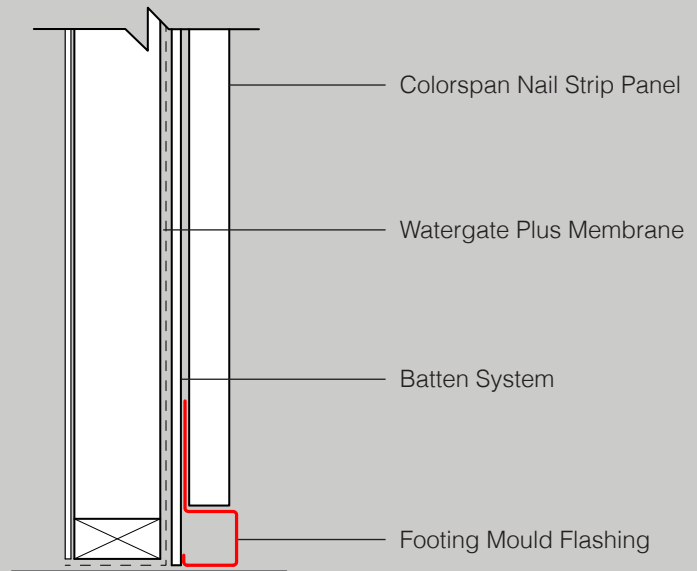


Step 3

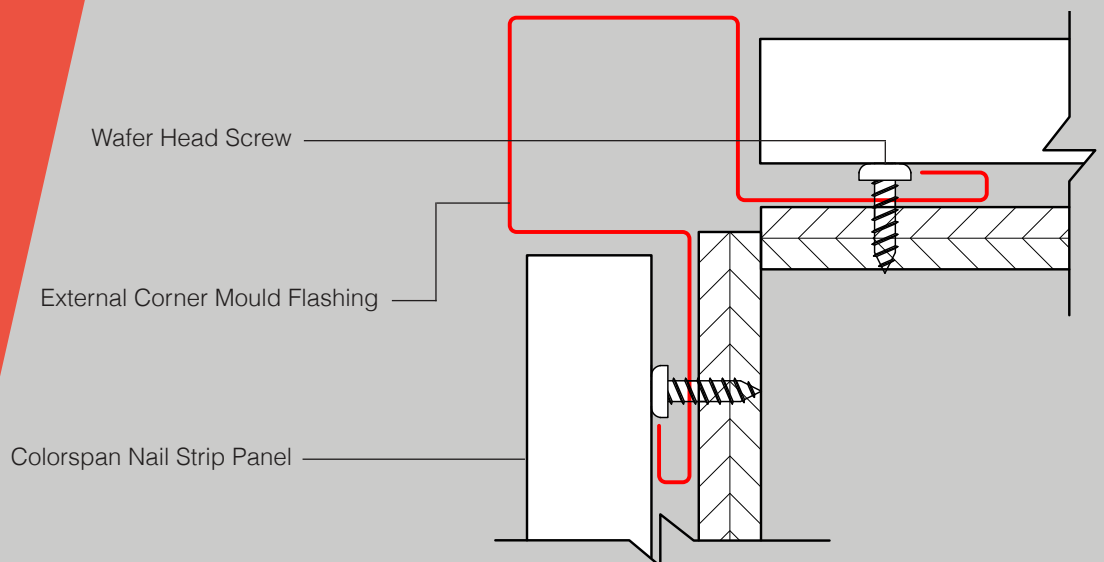
The front edge is then required to be folded back once more to create an underfold profile.

The panel is ready for quality inspection.

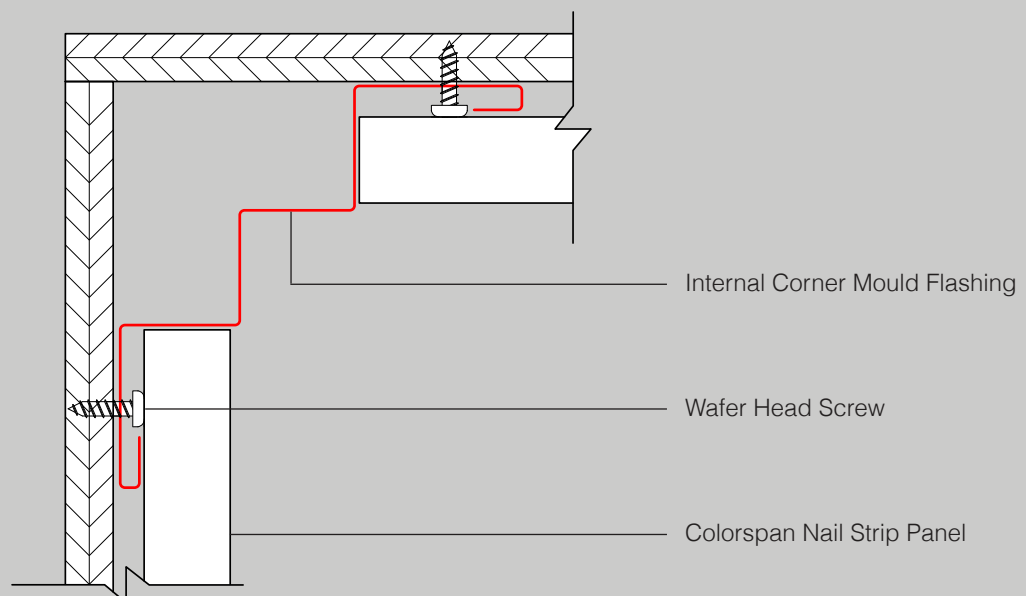
FOOTING MOULD FLASHING DETAIL



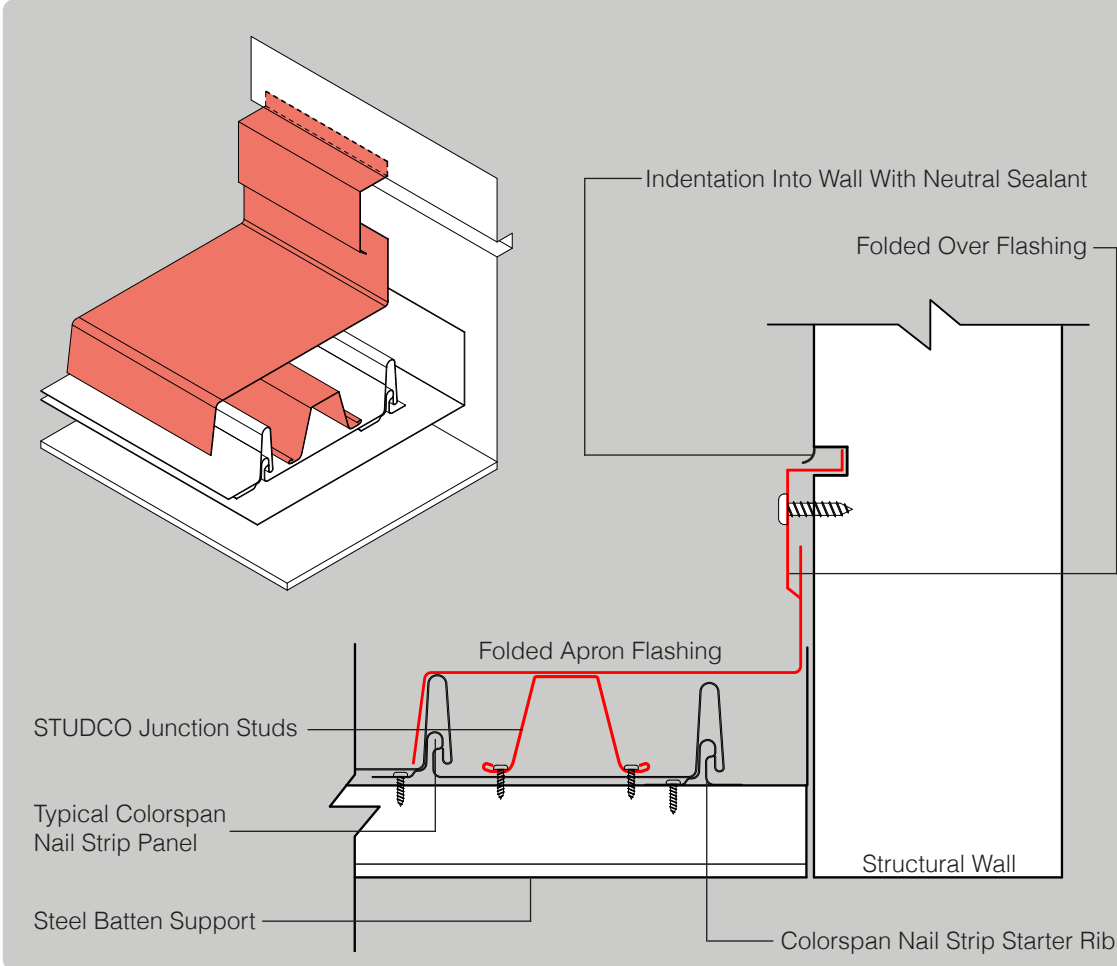
EXTERNAL CORNER FLASHING DETAIL



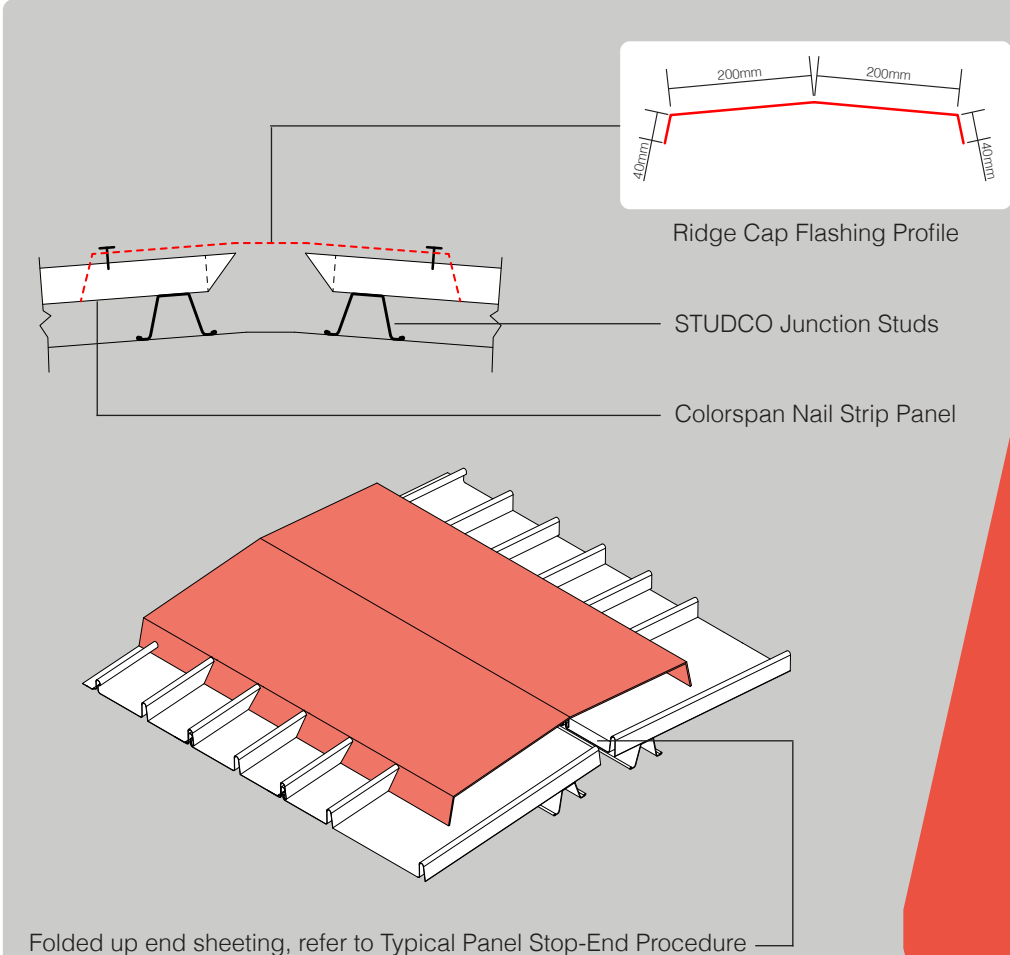
INTERNAL CORNER FLASHING DETAIL



APRON FLASHING

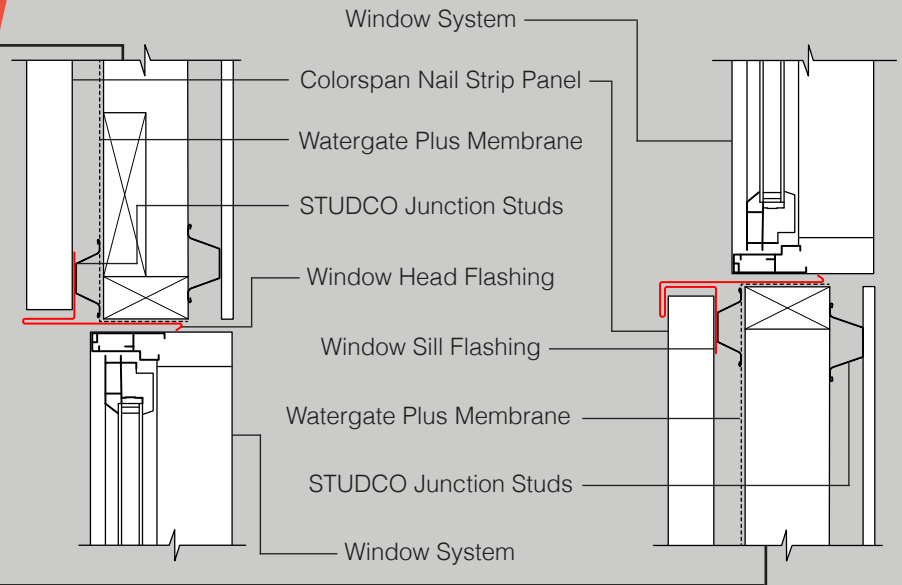
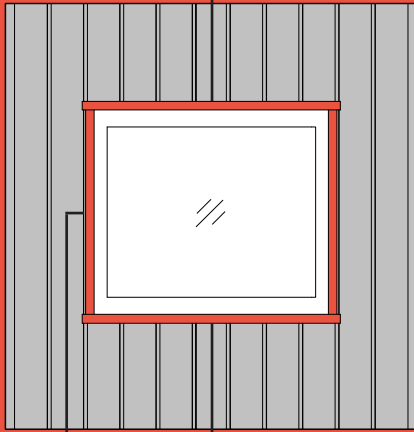


RIDGE CAP FLASHING

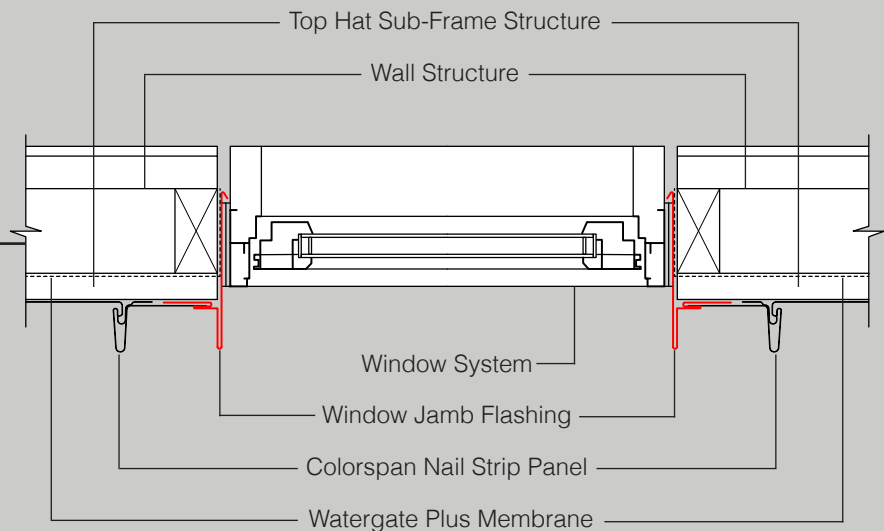


WINDOW HEAD AND SILL FLASHING DETAIL

Window Detailing Diagram:



WINDOW JAMB FLASHING DETAIL



BOX GUTTER FLASHING DETAIL

