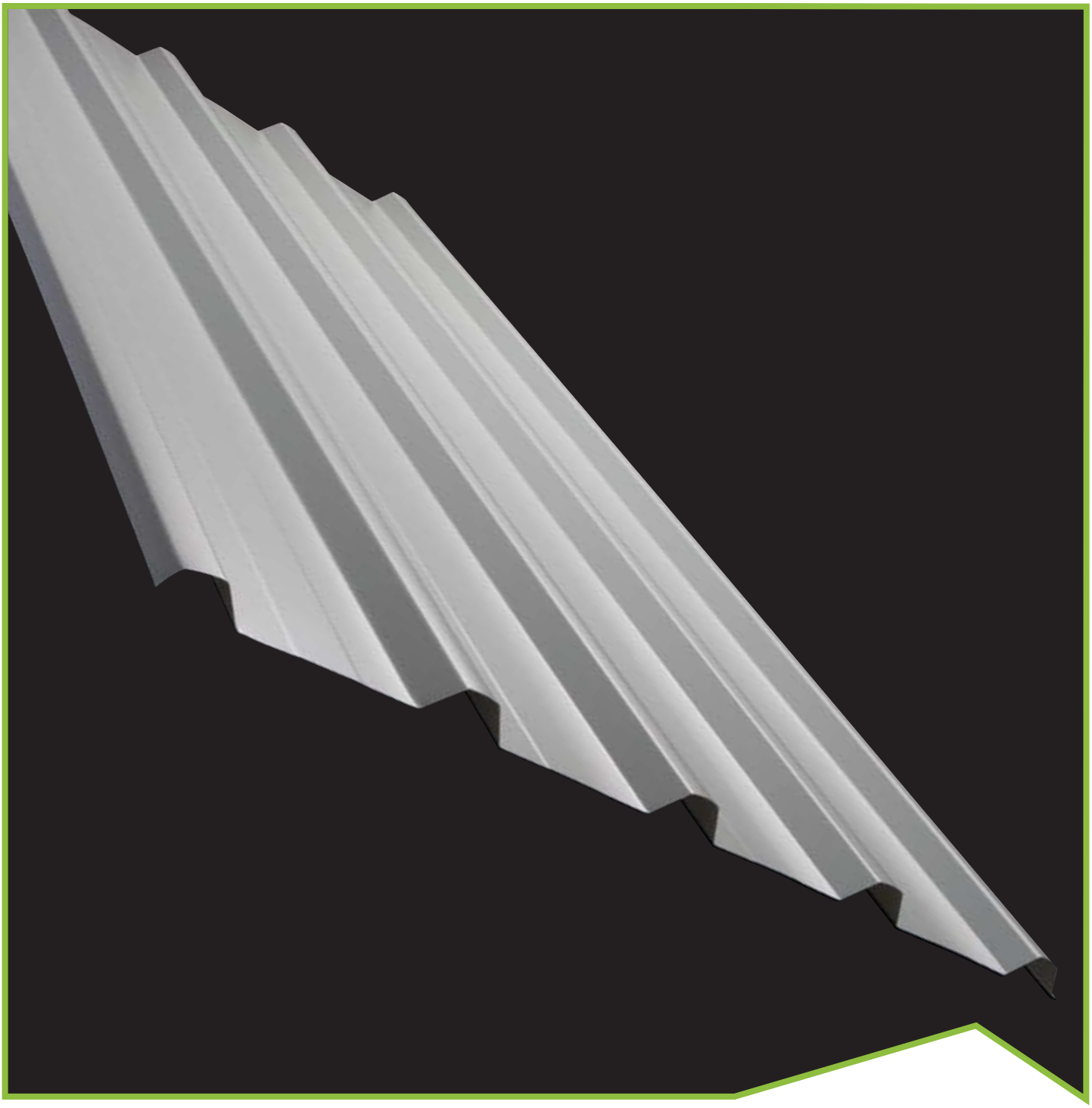
Steeline Steel Clad 762

Roof and Wall Cladding

ST31



Colorbond® Zincalume®

Steeline Steel Clad is a modern, stylish, high strength, lightweight roof and wall cladding material. Made from high tensile steel, the profile has been engineered to give the highest strength and rigidity possible, whilst using the least material. Manufactured locally using quality COLORBOND® or ZINCALUME® steel, Steeline Steel Clad is strong and long lasting.

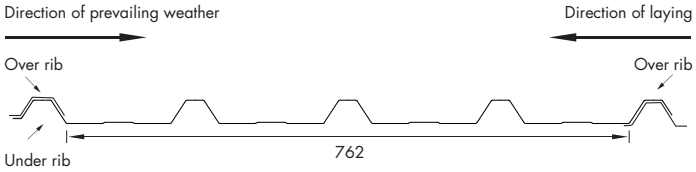
Steeline

Roof and Wall Cladding

Installation

Principle

Sheets of Steeline Steel Clad overlap each other and are fixed progressively along the building in the opposite direction to the prevailing weather. This gives complete weather protection and a fast and efficient method of installing the roof. Each sheet consists of an "over" rib and an "under" rib, and when put together they form an anti-capillary drain, which prevents water entry.



Preparation

Lift packs of Steeline Steel Clad onto the roof frame so that all sheets are the right way up and with the over edge facing the end of the roof where laying will commence. Prevent roof damage by walking only in the pans of the sheets and stand on the ribs only at supports. When the roof pitch is less than 15° or where there are extreme weather conditions, turn the sheet ends up approx. 80° at the high end and down approx. 15° at the gutter or low end. A turn up/down tool is used to do this.

End lapping

When two or more sheets are required for full length cover, start laying at the gutter and work up to the ridge and then start the next run. The minimum end laps required are:

Roofs - Pitch up to 15° - 230mm
Pitch over 15° - 150mm
Walls - 100mm

End laps in roofs with a pitch of <5° (1 in 12) are to be sealed. End laps must be positioned over a support and the support spacings either side are to be that recommended for an end span.

Fixing

Recommended fasteners

Steel Framing (up to 5mm):

A. Crest Fixed - No 12x45 or a 14x50 Hex Head Self Drilling Tek with neo washer

B. Valley Fixed - No 10x16 Hex Head Self Drilling Tek with neo washer C. As screw manufacturers have further developed their product you can now use a combination screw that will screw into timber or metal depending on the thickness of metal. Ask your Steeline member for a recommended fixing screw to suit your purpose.

Timber Framing

A. Crest Fixed - No 12x65 or a 14x65 Hex Head Type 17 Self Drilling Wood Screw with neo washer.

B. Valley Fixed - No 10x22 or a 12x22 Hex Head Type 17 Self Drilling Wood Screw with neo washer

C. As screw manufacturers have further developed their product you can now use a combination screw that will screw into timber or metal depending on the thickness of metal. Ask your Steeline member for a recommended fixing screw to suit your purpose.

Side lap fasteners

Side lap fasteners are to be added at the midspans of sheets for support, where spacing are over 900mm for roofs and 1200mm for walls to give weatherproofing. Use No 8x12 hex head type S self drilling screw with neo washer or blind rivets.

Methods of fixing

Roofs - Pierce fix through crests only using 1 fastener through every rib at every support (4 Fasteners/sheet).

Walls- Crest fixing as for roofs OR Valley fixing can be used. Valley fixing requires 1 fastener beside every rib at every support (4 Fasteners/ Sheet). If valley fastening is used, side lap fasteners must be added beside each main fastener.

Precautions

When unloading bundles of sheeting with a crane always use a spreader bar and fabric slings to prevent damage. When manually handling sheets use clean dry gloves and do not drag sheets over each other. Storage of sheets should be above ground and under cover.

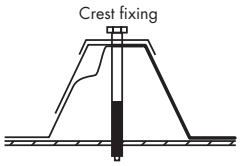
Crest fasteners must not be over-tightened but driven in until slight deformation of the rib is observed and the neoprene washer is fully sealed. Do not locate fasteners less than 25mm from the end of sheets. Do not use punches to form holes for fasteners. Holes are to be drilled or self drilling fasteners are to be used.

Coverage

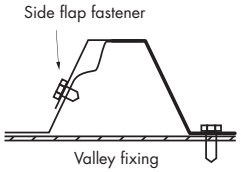
Steeline Steel Clad has an effective coverage of 762mm when laps of one rib are used.

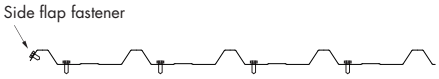
Roof pitch

The normal recommended minimum roof slope is 1 in 20 (approximately 3°). However, in non-cyclonic areas where roofs are in single sheet lengths, with a run of less than 15 metres, a minimum roof slope of 1 in 30 (approximately 2°) may be used.



Crest fix at every rib





Valley fix at every rib

NON-CYCLONIC

BASE MATERIAL THICKNESS	ROOF SPANS					WALL SPANS			
	SINGLE	END	INTERNAL	OVERHANG UNSTIFFENED	OVERHANG STIFFENED	SINGLE	END	INTERNAL	OVERHANG
0.42 (G550)	1800	1500	2100	300	600	2100	2250	3150	300
0.48 (G550)	2100	1950	2800	400	700	2150	2400	330	400

CYCLONIC

BASE MATERIAL THICKNESS	ROOF SPANS (5M HIGH)					WALL SPANS			
	SINGLE	END	INTERNAL	OVERHANG UNSTIFFENED	OVERHANG STIFFENED	SINGLE	END	INTERNAL	OVERHANG
0.42 (G550)	800	900	1200	200	300	1000	1100	1500	200
0.48 (G550)	810	1010	1300	200	300	1100	1200	1600	200

Steeline has over 40 locations operating in every state and territory

Steeline