Steeline Steel Span 700

Roof & Wall Cladding

ST29

Colorbond® Zincalume®

Steeline Steel Span 700 is a practical, aesthetically pleasing roof and wall cladding material which adds value to any building. Made from light gauge, high tensile steel it has an efficiently designed profile, making it light and able to span long distances. Manufactured locally using quality COLORBOND® or ZINCALUME® steel, Steeline Steel Span 700 is strong and long lasting.

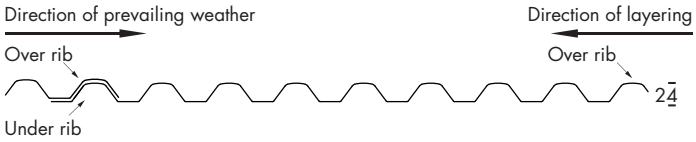
Steeline

Roof and Wall Cladding

Installation

Principle

The sheets of Steeline Steel Span 700 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 Span 700 onto the roof frame so that all sheets are the right way up, with the over edge facing the end of the roof where laying will commence. Prevent roof damage by walking on at least 2 ribs distributing the weight over the foot and walk across the roof over the 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 - 150mm

Walls - 100mm

End laps in roofs with a pitch of <15° (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 products, you can now use a combination screw that will screw into timber or metal depending on the thickness. 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 or a Self Drilling Wood Screw with neo washer.
B. Valley Fixed - No 12x25 Hex Head Type 17 or a Self Drilling Wood Screw with neo washer.
C. As screw manufacturers have further developed their products, you can now use a combination screw that will screw into timber or metal depending on the thickness. Ask your STEELINE member for a recommended fixing screw to suit your purpose.

Side lap fasteners

These are added at the midspans of the sheets for support spacings over 900mm for roofs and 1200mm for walls to give weatherproofing. Use No 8x12 Hex Head Type 5 Self Drilling Screw with neo washer OR Blind Rivets.

Methods of fixing

Roofs - Pierce fix through crests only using 3 Fasteners/sheet OR 4 Fasteners/sheet depending on the location. At the end of sheets 4 Fasteners/sheet must be used.

Walls - Pierce fix through crests OR valleys. 3 Fasteners/sheet OR 4 Fasteners/sheet can be used depending on location. At the ends of sheets 4 Fasteners/sheet must be used. if valley fastening is used side lap fasteners must be added beside each main fastener.

Cyclonic fixing

In cyclonic areas, sheets should be fixed on every rib at the first and last purlin. On all other purlins every second rib is fixed.

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 overtightened 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 Span 700 has an effective coverage of 700mm when laps of one rib are used.

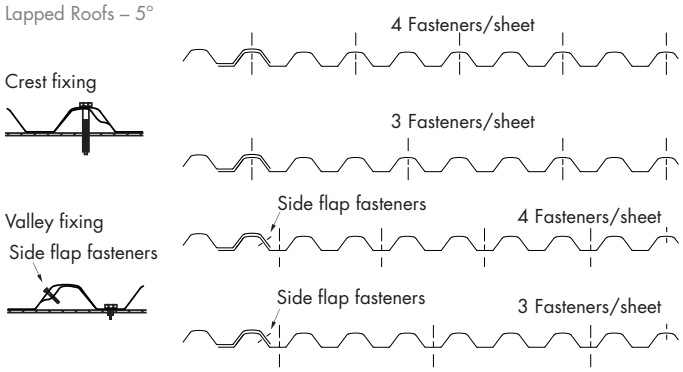
Roof pitch

Water entry is prevented by the special anti-capillary drain built into the overlapping ribs which allows low pitches to be used. The minimum recommended roof pitches for different situations are: Non-cyclonic areas (Crest Fixed)

Long length Roofs <15m. – 2°

Long length Roofs >15m. – 3°

Lapped Roofs – 5°



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					WALL SPANS			
	SINGLE	END	INTERNAL	OVERHANG UNSTIFFENED	OVERHANG STIFFENED	SINGLE	END	INTERNAL	OVERHANG
0.42 (G550)	800	920	1040	200	400	960	1040	1120	200
0.48 (G550)	990	1180	1370	200	400	1250	1370	1490	200

Steeline has over 40 locations operating in every state and territory

Steeline