

STEEL PANEL Wall Cladding

Steel Panel is a modern, stylish, high strength, lightweight sheet cladding material. It is an ideal product not only for walls, but also to use on ceiling and soffit linings. Made from high tensile steel, the profile has been engineered to give the highest strength and rigidity possible, whilst using the least amount of material. Made from quality Colorbond® or Zinalume® steel.

Installation

Principle

The sheets of Steel Panel 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 effective seal, preventing water entry.

Preparation

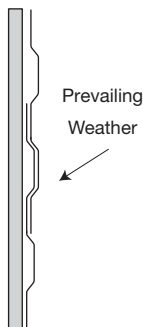
Can be bent along the sheet at minimum bend radius of 3mm, however it is not recommended to bend it across the sheet.

Laying

RIBS HORIZONTAL - The edge laps must face downwards with the over edge (double side rib) on top as shown. If end laps are necessary on long runs, allow 75mm per lap. End laps should be sealed with suitable sealant.

RIBS VERTICAL - Start at the end of the wall which is away from the prevailing weather. The over-edge should be as shown.

Prevailing Weather →



Fixing

Recommended Fasteners

Steel Framing: (Up to 5mm thick): No. 10 x 16 wafer head self drilling Tek screws or blind rivets.

Timber Framing: No. 8 x 25 pan head type 17 self drilling wood screw.

Side Lap Fasteners

Use No. 8x12 hex head type S self drilling screw with neo washer or blind rivets.

When using the overlapping rib jointing method, these are added at the midspans of the sheets for support spacings over 800mm. When using the overlapping edge method, side lap fasteners are required at 300mm centres maximum.

Location of Fasteners

At the ends of sheets and at end laps, fasteners are to be located at every second valley. At intermediate supports a fastener is to be located either at the side lap or adjacent to it, with 4 fasteners used equal distant across the sheet.

Note: In some applications e.g. Interior applications the number of fasteners may be reduced by up to 50%.



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. 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 and Lengths

GP Panel has an effective coverage of 850mm and can be cut in the factory to any length specified by the customer. Tolerance on the length is +0mm-5mm.

Support Recommendations for Non-cyclonic Areas

Maximum Support Spacings

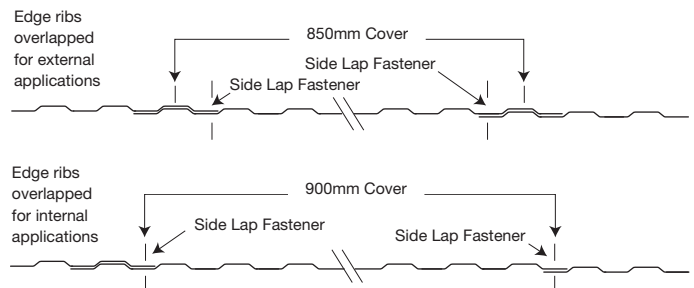
The recommended maximum support spacing is 600mm for exterior applications, and 900mm for interior applications. These apply for buildings located under the following conditions as specified by AS.1170 Part 2 SA.

Max. Building Height: 10m

Wind Velocity: 50 m/s

Internal Pressure Coefficient: +0.2

Terrain Category: 3



Spans

Base Material Thickness	Single	End	Internal
0.42 (G550)	600	600	900

Note: For cyclonic, refer to your local manufacturer for more details.



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