

SUMMIT XPS

OVER-PURLIN INSTALLATION



TYPICAL USES

- Industrial and commercial applications
- Retail applications
- Agricultural structures

APPLICATION GUIDELINES

- Summit XPS insulation board can follow a 5m radius in curved roof applications. Choose either smooth board with straight edge (if using H / T sections), or smooth board with a beveled edge or pine-groove finish.
 - For minimum deflection, recommended spans should not be exceeded. Aluminium T- or H-sections can be used to increase the unsupported spanning capability of Summit XPS insulation board where the limit per thickness is exceeded.
 - Summit XPS insulation board is clamped to the purlin via roof screws that secure the roof sheets, or via clip-lock-type fittings. Longer roof screws are needed to accommodate the thickness of the board.
 - If Summit XPS insulation board is clamped in direct contact with a pre-painted roof sheet, fit 3mm MDF spacers to prevent possible squeaking noise. Spacers are not necessary if a clip-lock system is used, or with galvanised or Aluzinc roof sheets.
 - Roof ridge vents should be installed when using 40mm or thicker Summit XPS insulation board to prevent heat build-up, especially under painted roof sheets.
 - Summit XPS insulation board can be used to clad the sides of the steel-framed buildings.
 - Summit XPS insulation board is an extrusion, and therefore flow lines can be visible. For an aesthetically pleasing finish, paint the board with two coats of good-quality water-based matt PVA paint. The first coat should be an acrylic filler coat to cover minor surface indentations and imperfections.
- Please consult the Swartland website or one of our representatives for the appropriate thickness of Summit XPS insulation board to use in your region.*

RECOMMENDED OVER-PURLIN INSTALLATION INSTRUCTIONS

1. Wipe boards with a dishwashing liquid immediately prior to installation to remove static charges built up during transport or handling, and to prevent dust particles from sticking to the surface.

2. Lay the boards from apex to eave, always beginning and ending on a purlin.

3. If butt joints are necessary, make sure they are centred on top of the purlins, with a 5mm expansion gap. Please note: as a result of width tolerances, butt-joined or staggered boards might not align perfectly.

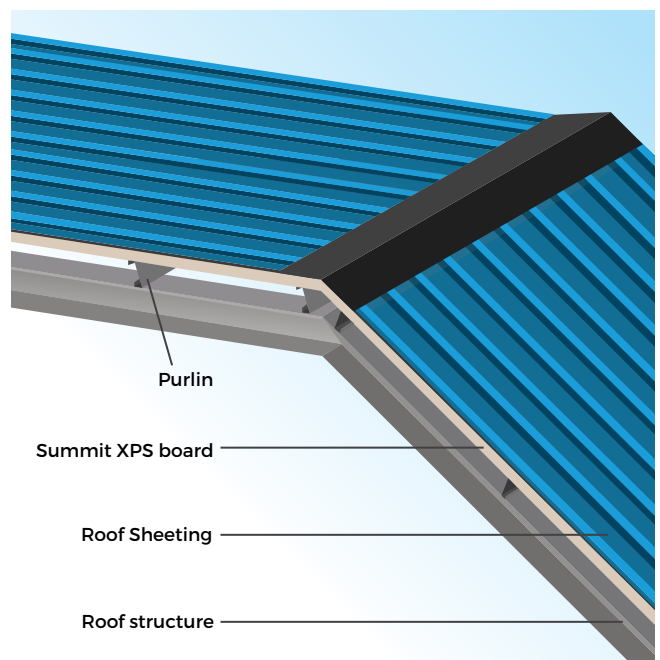
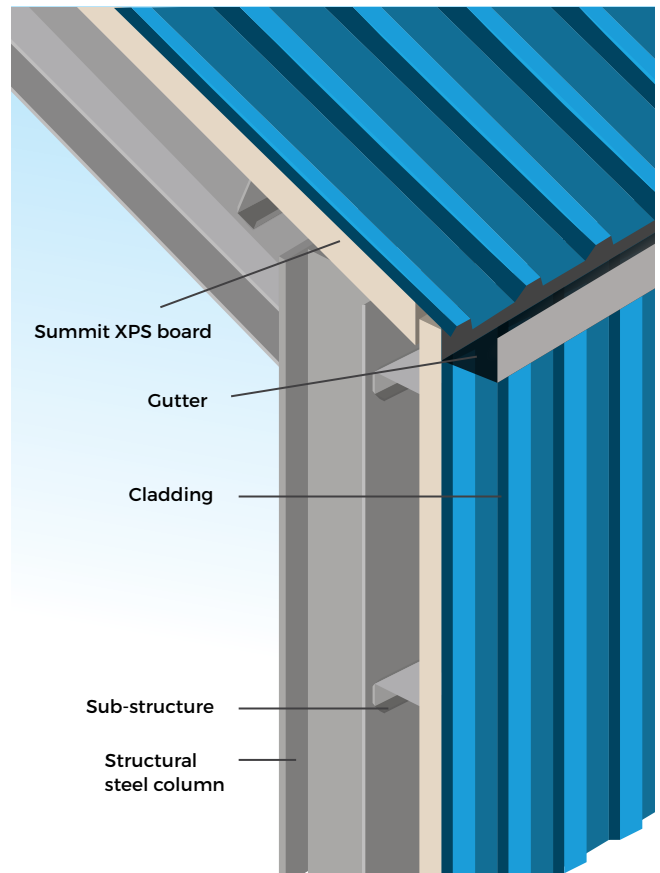
4. Join boards longitudinally using the tongue-and-groove edge profile, locking them together tightly.

5. Fix the roof sheets using roof screws at the same time as Summit XPS insulation board, so that the board is secured between purlins and roof sheets.

6. Recommended purlin spacing limitations for unsupported Summit XPS insulation board are listed in the table below, and allow for a 15mm deflection at mid-span. **Please note:** the recommended purlin spacing is reduced under painted roof sheets because of the higher temperatures.

7. Use profiled roofing closures or cover strips in areas where exposed board ends can potentially be damaged by birds or vermin.

In industrial and commercial applications, the designed purlin spacing can exceed the spacing recommended for Summit XPS insulation board. Please consult the Swartland website or one of our Summit XPS insulation board representatives for installation advice.



Maximum purlin spacing

Thickness	Galvanized sheeting	Painted sheeting
30mm	1 400mm	1 200mm
40 mm and thicker	1 600mm	1 500mm