

Specifications and standards for punching holes in photovoltaic panel purlins

What is the bolt strength of a roof purlin?

The bolt strength grade (4.6 or 8.8) should be specified by the design engineer to conform with the Stramit®; Purlins, Girts & Bridging - Product Technical Manual. Loads to be suspended from roof purlins must be accounted for in design. No allowance is included in the capacity tables.

What size bridging is required for a purlin roof?

Alternative hole sizes, shapes and centres are possible, subject to enquiry. Stramit recommends that bridging be installed such that the maximum unbraced length is $20 \times D$ (where D is the purlin web height), or 4000mm whichever is the least. In addition to enhancing purlin performance this requirement assists with the erection of roof sheeting.

Do I need a bridging inspection before installing a purlin?

It is imperative that this be resolved immediately and prior to installation. Purlins and Girts supplied by Stramit will be made from high tensile galvanised steel. Final inspection of the installed purlin, girt and bridging system should check for correct bolting of laps and that bridging is correctly in place.

How do you dimension a purlin?

The preferred method of dimensioning is hole centre to hole centre rather than referenced from one end. An overall purlin length is also desirable to provide a data entry dimension check. Stramit normally supply purlins and girts punched to conventional AISC hole centres.

What is hole punching 4 Stramit?

Hole Punching 4 Stramit offers a wide range of standard C and Z purlins Bridging Hole Location 5 from 100 to 350 deep in several thicknesses. Downturn Laps 5 lips are also available for both C and Z sections from Expansion Joints 6 150 to 350, including lappable Zs. Special sizes from 100 Detailing of Purlins 6 to 400 are also possible.

What size flange do I need for a purlin?

For section sizes from 75 to 250mm inclusive, the holes are elongated 22x18mm, suitable for M12 bolts while 300mm, 350mm and 400mm sections have a 22mm diameter hole suitable for M16 bolts. NOTE: Z and C Section purlins must have the top flange pointing up the slope to minimise rotation. 60* 55** 70mm in Victoria ** 50mm in Victoria

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