

# How to drill holes in the purlins of photovoltaic brackets

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.

Do Stramit supply girts & purlins?

Stramit normally supply purlins and girts punched to conventional AISC hole centres. Ensure hole detail sheets show correct hole centres and spacing required and location and type of bridging holes. \*Standard centres in Victoria - 70mm. All accessories supplied in Victoria conform to the 70mm spacing for 150 sections.

How to install a solar fastener?

The solar fastener can be drilled, tapped and screwed in one operation using the hardened steel drill tip. Measure the screw distances according to statics or K2 Base. Check position of purlins and pre-drill through the fibre cement profiles into the purlins.

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.

Why do large purlins require large bridging systems?

Large purlins require large bridging systems due to the larger spans and heavier loads encountered. These bridging components are conventional in nature but on a much larger scale. Generally the bridging channel is a C150 section firmly bolted to end plates to suit the particular purlin concerned.

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.

The first step is to find the roof supports (purlins or beams) where the "L" bracket will be fixed. Then, drill the top part of the tile until you find the roof support to place the stud. ...

To drill a 1/2" hole in a steel Cee purlin, start by marking the desired location for the hole. Then, secure the purlin in a vice or with clamps to hold it steady. Use a center punch to create a small indentation at the marked ...

# How to drill holes in the purlins of photovoltaic brackets

Step 3: Pre-drill Holes. Using a drill with the appropriate drill bit, pre-drill holes where you have marked for purlin placement. This will ensure that the screws or nails go in smoothly and securely. The size of the drill bit ...

You'll need a stronger bit when you're drilling harder metals. If you're using your drill on a softer metal like aluminum, you can use a standard high-speed steel bit that you'd use on wood. If you're drilling steel or another ...

For drilling holes in steel that's 1/8 in. or thicker, use cutting fluid or a multipurpose oil like 3-IN-ONE. Lubricating the bit reduces friction and heat buildup, which makes drilling easier and your bits last longer. For easier-to ...

Mark the drilling point through the holes in the bracket. Make sure that the plate is centered on the bumper and mark where you need to drill through. To do this, take a pencil or marker and put it through the holes in the ...

C purlins (or "cee purlins") are steel purlins that resemble the letter "c". This type of purlin provides structural support for the beams required for a steel building's floors and ...

The supplier of your purlins can usually supply you with the appropriate bolts as described in your engineering. Holes punched or drilled in your purlins, cleats, columns & rafters are generally oversized to give ...

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