

## ■ Design Tip – Standard Purlin Cleat

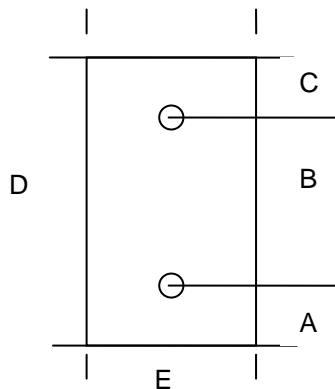
The ILB® system is formed by a standard range of ILB® Beams connected using fitting plates welded on and then bolted together. The fitting plates may vary slightly depending on the beam selected and the type of connection required.

However, there are a standard range of plates from which to select. Plates outside of this standard range will incur extra charge and are subject to longer leadtimes.

To assist the design process, ILB have produced a set of design tips.

This ILB design tip relates to the specification of the **Standard purlin cleat**.

### ■ Single Cleat



The single cleat plate 65 x 6 x D.  
 Where D is related to the size of the purlin being used.

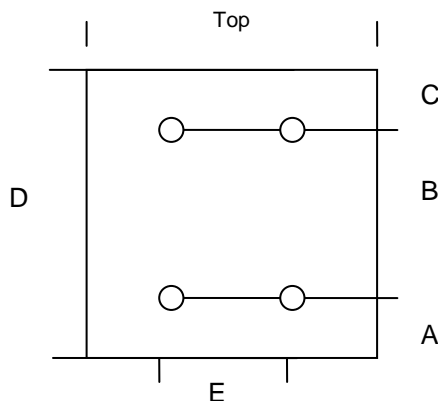
For 100,150, 200 purlins and 250 the connection requires 2 x 14 holes.

For 300 and 350 purlins the plate requires 2 x 18 holes

Where  
 A = 55mm  
 B = - the size to suit purlins  
 C = 35mm  
 D = Purlin  
 E = 65mm

NB Where an expansion joint is used add 50mm to 'A' for the high side

### ■ Double Cleat



The double cleat size is related to the size of the purlin used.

The double cleat plate 130 x 6 x D  
 For 100,150, 200 and 250 purlins the connection requires 4 x 14 holes.

For 300 and 350 purlins the plate requires 4 x 18 holes

Where  
 A = 55mm  
 B = - the size to suit purlins  
 C = 40mm  
 D = Purlin Depth  
 E = 80mm

NB Where an expansion joint is used add 50mm to 'A' for the high side