

Connections

1. Bolted Connections



The Ronald Reagan National Airport in Washington, DC, USA, uses wide-flange sections with bolted connections.



This 76m/250ft-long truss uses **bolted splice plates** in the top and bottom. The diagonal ladder-like web member was bolted into place at the time of splicing.



End plate connectors have been used to attach the long triangular truss sections of this pedestrian bridge in Auckland, New Zealand.



Bolted connections with simple lap joints constitute the internal connections in this pedestrian bridge truss.

2. Welded Connections

This straight-cut tube



Tube-to-tube connections become more complicated when it is not possible to use a straight-angled cut to create the joint.



Curved cut (difficult) at the intersection of two round HSS members. The welds have been neatly done and left unremediated.



Shop Versus Site Fabrication

Location: Jay Pritzker Pavilion in the Millennium Park in Chicago, IL, USA
 This connection at the base support of a truss element the use of welding in a connection.
 The shop and site welding appear differently. It is a challenge for the welder to complete the vertical weld where the truss is attached to the plate that has been set in the concrete wall.

3. Pin Connections

