Specification requirements for photovoltaic inclined beam connection plates

However, since slip-critical connections are required to be designed for the limit states of bearing-type connections in addition to slip (AISC Specification Section J3.9), it is recommended that slip-critical connections be analyzed twice in ...

This paper investigates the mechanical performance of beam-to-column connections for steel-framed building modules with RHS and SHS sections of relatively small member sizes. In the experimental program, three ...

Attachment of beam to the sleeve is in three different ways including direct connection, using steel plates at beam flange levels, and utilizing apron plates all around the ...

This paper presents an externally reinforced I-beam-to-box-column seismic connection. An inclined rib-plated collar-plated configuration with web plates is used to ensure ...

It is commonly stated that "a structure is a constructed assembly of joints separated by members" (McLain,1998) and in timber engineering the joint is generally the critical factor in the design ...

After defining the joint elements, the users have the possibility to choose the material for each element according to different standards and set the following steel design assumptions: steel corrosion, control of the shear plane for ...

The first connection is between the girt and seat plate stiffeners. The reaction of the stiffeners is akin to a longitudinal plate to HSS connection in compression. The second connection is ...

A series of beams modeled using 3-D solid finite elements with consideration of initial geometric imperfections, residual stresses, and material nonlinearity are analyzed with and without inclined ...

Fin plate connections are a popular form of pinned steel connection and are commonly used for secondary beams in steel structures. They can be used easily in beam structures arranged on the top edge (for ...

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