IV.6 Connections

Connections in timber can be the governing factor in the overall strength of the structure. Stresses to be considered in two of the simplest cases of connections employed in the designs of this book:

Bolted or Pegged Connection: Refer to Figure IV-17.

Kneebrace Connection: Refer to Figure IV-18.

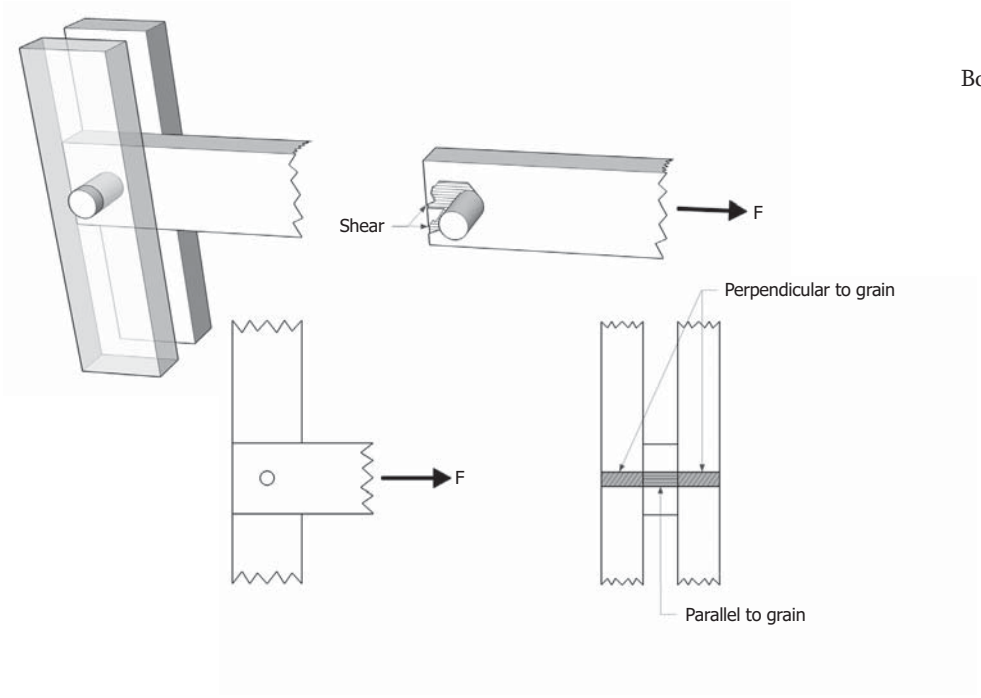

Figure IV-17
Bolted or Pegged Connection

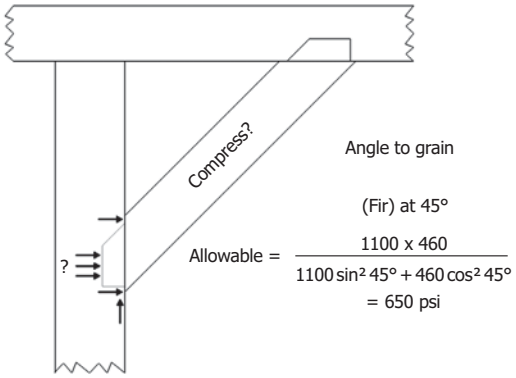

Figure IV-18
Kneebrace Connection

IV.7 Hammer Bent Analysis

Historically, hammer bents were used for roofs on top of heavy masonry walls and were, if necessary, buttressed. Modern hammer bents, include the wall posts. This results in a very different overall behavior than one in which the walls provide enough support for the horizontal forces at the eaves. To make a modern version function more like those historical versions, a tie is necessary at the level of the eaves.

Below is an outline of a modern hammer bent with a non-mathematical consideration of its behavior and adequacy. For more