



Technical Bulletin No. 5

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Subject: Capacity of Timberlinx connectors with the 2-1/2-inch expansion pin	



Figure 1 - A475 connector with 4-inch expansion pin (left) and 2-1/2-inch pin (right)

The majority of applications for Timberlinx connectors utilize 4-inch long expansion pins. However, for applications using smaller timbers, Timberlinx offers a 2-1/2-inch long pin. The shorter pin facilitates use of Timberlinx connectors in members as small as 4x4. For example, a standard deck post can be anchored to a pier or slab using the 2-1/2-inch pin and the access holes can still be plugged to conceal the pin.

The capacity of a connector with the 2-1/2-inch pin will be 48% of that with the 4-inch pin. This value is simply the ratio of the bearing areas of the two pins inside the hole in the timber, with the assumption that the Timberlinx tube connector is in a 1-1/8-inch diameter hole.