

Shear plates can be used singly to connect wood to steel, or be paired back to back to connect wood to wood as shown in Figure 5.17 (→ 250).

Steel side plates used in conjunction with bolts must be sized according to wood engineering standards to resist tensile and compressive forces as well as buckling at critical sections.

Typical wood-to-metal applications occur at purlin to beam, column to foundation, arch peak, and steel gusset connections.

Figure 5.15
Stress
Distribution for
Bolted Joints
with and
without Split
Rings and
Shear Plates

