

Tensile Strength of PJP Groove Welds vs. CJP Groove Welds

The AISC Specification allows the strength of a CJP groove weld to be taken as the strength of the base metal. However, the tensile strength of a PJP groove weld is limited to 0.6 times the tensile strength of the filler metal. As a result, the design strength of the PJP groove weld is significantly reduced even when the volume of weld is nearly the same as a CJP groove weld. What are the differences between CJP and PJP groove welds that explain this strength reduction?

AI C S e c i f i c a i , J 2.4 C
 0.6 F_{EXX} J
 1960
 A C J AI C S e c i f i c a i

