**FILLETT WELD AND SOCKET WELD PROFILES**

**Equal Leg Fillet Weld**

The size of an equal leg fillet weld is the leg length of the largest inscribed right isosceles triangle. 

Theoretical Throat = 0.7 x size of weld

**Unequal Leg Fillet Weld**

The size of an unequal leg fillet weld is the shorter leg length of the largest right triangle which can be inscribed within the fillet weld cross section.

**Skewed T Joints**

1When the intersecting member is less than 60 degrees, the weld shall be considered a partial penetration groove weld.

**Socket Welding Flanges and Fittings**

\[ x_{\text{min.}} = 1.4 t_n \text{ or the thickness of the hub, whichever is smaller, but not less than 1/8 in.} \]

\[ t_n = \text{nominal pipe wall thickness. } C_x = 1.09 t_n \]