

Notes for Figure 3.5

- ^a Fillet weld size ("S"). See 2.4.2.8 and Clause 5.13 for minimum fillet weld sizes. See Table 3.6 for maximum single pass size.
^b See 5.21.1 for additional fillet weld assembly requirements or exceptions.
^c See 2.4.2.9 for maximum weld size in lap joints.
^d Perpendicularity of the members shall be within $\pm 10^\circ$.

Welding Process	Joint Designation	Base Metal Thickness T_1 or T_2	Joint Design/Geometry		Allowed Welding Positions	Notes	
			Root Opening	Tolerances			
				As Detailed			As Fit-Up
SMAW	TC-F12	<3	R = 0	+1/16, -0	All	3/16 max.	
	TC-F12a	>3				5/16 max.	
	L-F12	<3				3/16 max.	
	L-F12a	>3				5/16 max.	
GMAW FCAW	TC-F12-GF	<3	R = 0	+1/16, -0	All	3/16 max.	
	TC-F12a-GF	≥ 3				5/16 max.	
	L-F12-GF	<3				3/16 max.	
	L-F12a-GF	≥ 3				5/16 max.	
SAW	TC-F12-S	<3	R = 0	+1/16, -0	F, H	3/16 max.	
	TC-F12a-S	≥ 3				5/16 max.	
	L-F12-S	<3				3/16 max.	
	L-F12a-S	>3				5/16 max.	