Table 4.3Number and Type of Test Specimens and Range of Thickness Qualified—WPS Qualification; PJP Groove Welds (see 4.10)

	Number of Specimens ^{1, 2}							
Test Groove Depth, T in. [mm]	Macroetch for	Reduced- Section Tension (see Fig. 4.14)	Root Bend (see Fig. 4.12)	Face Bend (see Fig. 4.12)	Side Bend (see Fig. 4.13)	Qualification Ranges ^{3, 4}		
	Weld Size (E) 4.10.2 4.10.3 4.10.4					Groove Depth	Nominal Plate, Pipe or Tubing Plate Thickness, in. [mm]	
							Min	Max
$1/8 \le T \le 3/8$ [3 \le T \le 10]	3	2	2	2		Т	1/8 [3]	2T
$3/8 < T \le 1$ [10 < T ≤ 25]	3	2			4	Т	1/8 [3]	Unlimited

BASIC REQUIREMENTS

Notes:

1. One test plate, pipe, or tubing per position shall be required (see Figures 4.10 or 4.11 for test plate). Use the production PJP groove detail for qualification. All plates, pipes, or tubing shall be visually inspected (see 4.8.1).

2. If a PJP bevel- or J-groove weld is to be used for T-joints or double-bevel- or double-J-groove weld is to be used for corner joints, the butt joint shall have a temporary restrictive plate in the plane of the square face to simulate a T-joint configuration.

3. See the pipe diameter qualification requirements of Table 4.2.

4. Any PJP qualification shall also qualify any fillet weld size on any thickness.

Table 4.4Number and Type of Test Specimens and Range of Thickness Qualified—WPS Qualification; Fillet Welds (see 4.11.1)

			Test	Specimens Requir	Sizes Qualified		
Test Specimen	Fillet Size	Number of Welds per WPS	Macroetch 4.11.1 4.8.4	All-Weld-Metal Tension (see Figure 4.18)	Side Bend (see Figure 4.13)	Plate/Pipe Thickness ¹	Fillet Size
Plate T-test (Figure 4.19)	Single pass, max size to be used in construction	l in each position to be used	3 faces			Unlimited	Max tested single pass and smaller
	Multiple pass, min size to be used in construction	1 in each position to be used	3 faces			Unlimited	Min tested multiple pass and larger
Pipe T-test ³ (Figure 4.20)	Single pass, max size to be used in construction	1 in each position to be used (see Table 4.1)	3 faces (except for 4F & 5F, 4 faces req'd)	_		Unlimited	Max tested single pass and smaller
	Multiple pass, min size to be used in construction	1 in each position to be used (see Table 4.1)	3 faces (except for 4F & 5F, 4 faces req'd)			Unlimited	Min tested multiple pass and larger
Groove test ⁴ (Figure 4.23)	—	1 in 1G position		1	2	Qualifies welding consumables to be used in T-test above	

Notes:

1. The minimum thickness qualified shall be 1/8 in. [3 mm].

2. All welded test pipes and plates shall be visually inspected per 4.8.1.

3. See Table 4.2(2) for pipe diameter qualification.

4. When the welding consumables used do not conform to the prequalified provisions of Section 3, and a WPS using the proposed welding consumables has not been established by the Contractor in conformance with either 4.9 or 4.10.1, a CJP groove weld test plate shall be welded in conformance with 4.9.