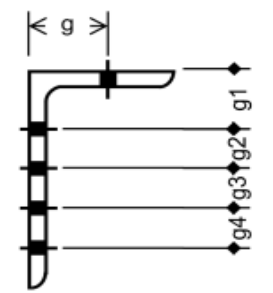


Table 1-7A Workable Gages in Angle Legs, in.

	Leg	12	10	8	7	6	5	4	3½	3	2½	2	1¾	1½	1⅜	1¼	1
	g	6	5	4½	4	3½	3	2½	2	1¾	1⅜	1½	1	7⁄8	7⁄8	¾	5⁄8
	g1	3	3	3	2½	2¼	2	-	-	-	-	-	-	-	-	-	-
	g2	2½	2½	3	3	2½	2	-	-	-	-	-	-	-	-	-	-
	g3	2½	2½	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	g4	2½	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Other gages are permitted to suit specific requirements subject to clearances and edge distance limitations.

TABLE C-J9.1 Anchor Rod Hole Diameters in.

Anchor Rod Diameter	Anchor Rod Hole Diameter
½	1¹⁄₁₆
5⁄8	1³⁄₁₆
¾	1⁵⁄₁₆
7⁄8	1⁹⁄₁₆
1	1¹³⁄₁₆
1¼	2¹⁄₁₆
1½	2⁵⁄₁₆
1¾	2¾
≥ 2	d _b + 1¼

TABLE J3.3 Nominal Hole Dimensions, in.

Bolt Diameter in.	Hole Dimensions			
	Standard (Dia.)	Oversize (Dia.)	Short-Slot (Width × Length)	Long-Slot (Width × Length)
½	9⁄₁₆	5⁄8	9⁄₁₆ × 1¹⁄₁₆	9⁄₁₆ × 1¼
5⁄8	11⁄₁₆	13⁄₁₆	11⁄₁₆ × 7⁄8	11⁄₁₆ × 1⁹⁄₁₆
¾	13⁄₁₆	15⁄₁₆	13⁄₁₆ × 1	13⁄₁₆ × 17⁄8
7⁄8	15⁄₁₆	1¹⁄₁₆	15⁄₁₆ × 1¹⁄8	15⁄₁₆ × 2³⁄₁₆
1	1¹⁄8	1¼	1¹⁄8 × 1⁵⁄₁₆	1¹⁄8 × 2½
≥ 1¼	d + ¹⁄8	d + 5⁄₁₆	(d + ¹⁄8) × (d + 3⁄8)	(d + ¹⁄8) × (2.5 × d)

TABLE J3.4 & TABLE J3.5 Minimum Edge Distance

Bolt Diameter in.	For Std. Hole	Oversized Holes	Slotted Holes		
			Long Axis Perpendicular to Edge		Long Axis Parallel to Edge
			Short Slots	Long Slots	
½	¾	13⁄₁₆	7⁄8	1¹⁄8	¾
5⁄8	7⁄8	15⁄₁₆	1	1⅜	7⁄8
¾	1	1¹⁄₁₆	1¹⁄8	1⁹⁄₁₆	1
7⁄8	1¹⁄8	1³⁄₁₆	1¼	1¹³⁄₁₆	1¹⁄8
1	1¼	1⅜	1⅜	2	1¼
1¹⁄8	1½	1⁵⁄8	1¹¹⁄₁₆	2³⁄8	1½
1¼	1⁵⁄8	1¾	1¹³⁄₁₆	2⁹⁄₁₆	1⁵⁄8
Over 1¼	1¼ × d	(1¼ × d) + ¹⁄8	(1¼ × d) + 3⁄₁₆	(1¼ × d) + ¾ d	1¼ × d

MINIMUM BOLT ROWS

W6	1
W8,W10,W12	2
W14,W16,W18	3
W21,W24	4
W27,W30	5
W33,W36	6

MAXIMUM BOLT ROWS

W6	1
W8,W10	2
W12,W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9
W33,W36	10

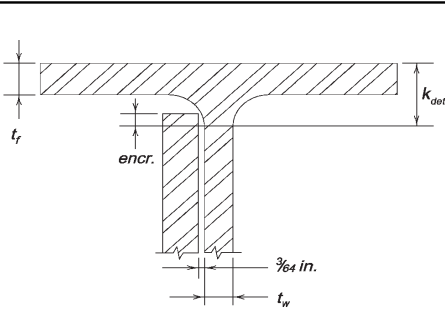


Fig. 10-3. Fillet encroachment (riding the fillet).

k _{det} - t _f	Encr.
in.	in.
5⁄₁₆	1⁄8
3⁄8 to 1⁄2	3⁄₁₆
9⁄₁₆ to 13⁄₁₆	1⁄4
7⁄8 to 1 1⁄4	5⁄₁₆
1 5⁄₁₆ and 1 3⁄8	3⁄8

USUAL GAGE FOR WF BEAMS

FLANGE WIDTH	GAGE
UNDER 5"	2 1⁄4
5" TO 5 3⁄4"	2 3⁄4
6" TO 7 3⁄4"	3 1⁄2
8" AND OVER	5 1⁄2
W16X26	3 1⁄2
W16X31	
W8X24	4
W8X28	

Gage For Profile sizes above W36 refer to Table 1-1 of AISC

FIRST HOLE DISTANCE

FROM TOP OF BEAM	
W8	2 1⁄2"
W10,W12,W14, W16,W18,W21,W24	3"
W27,W30	3 1⁄2"

TABLE J2.4 Minimum Size of Fillet

Thinner Part Thickness	Min. Size of Fillet Weld
≤ 1⁄4	1⁄8
> 1⁄4 to 1⁄2	3⁄₁₆
> 1⁄2 to 3⁄4	1⁄4
> 3⁄4	5⁄₁₆

BENT PLATE BENT RADIUS

Plate Thk.	Radius of Bent	Plate Thk.	Radius of Bent
1⁄8	1⁄4	3⁄8	3⁄4
3⁄₁₆	3⁄8	1⁄2	7⁄8
1⁄4	1⁄2	5⁄8	1 1⁄8
5⁄₁₆	5⁄8	3⁄4	1 3⁄8