



DG4Eq.3.7,Eq.3.8,DG4Eq.3.7,AISC358-05Eq.6.9-20

Horizontal edge distance	[mm]	136.30	31.75	152.40
	Sec. J3.5			



SEISMIC PREQUALIFICATION REQUIREMENTS (ANSI / AISC 358-05)

Dimensions Sta.	Unit	Value	Min. value	Max. value
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Beam				
Minimum span-to-depth ratio		12.00	5.00	--
Beam depth	[mm]	409.40	635.00	1397.00
Flange thickness	[mm]	14.30	9.52	19.05
Flange width	[mm]	178.80	152.40	234.95
Support				
Support depth	[mm]	368.20	--	409.40
Extended end plate				
Thickness	[mm]	20.00	12.70	57.15
Width	[mm]	210.00	178.80	204.20
Horizontal center-to-center spacing (gage)	[mm]	100.00	101.60	178.80
Distance from bolt centerline to nearer tension flange surface	[mm]	40.00	31.75	
114.30				
Requirement	Value	Allowable values	Sta.	
Extended end plate				
Bolt grade	A325 N	A490 SC, A325 SC	X	
Hole type	Standard (STD)	Standard (STD)		
Material	S355	A36	X	
Weld type	Fillet	Requires full penetration weld		
Beam				
Material	S355	A36, A529, A572 Grade 42/50/55, A588,	X	
A913 Grade 50/60/65, A992				
Support				
Material	S355	A36, A529, A572 Grade 42/50/55, A588,	X	
A913 Grade 50/60/65, A992				
Hole type	Standard (STD)	Standard (STD)		

ANSI/AISC 358-05  
An American National Standard

TABLE 6.1.  
Parametric Limitations on Prequalification

Parameter	Four-Bolt Unstiffened (4E)		Four-Bolt Stiffened (4ES)		Eight-Bolt Stiffened (8ES)		Capacity	Demand	Ctrl EQ
	Maximum in. (mm)	Minimum in. (mm)	Maximum in. (mm)	Minimum in. (mm)	Maximum in. (mm)	Minimum in. (mm)			
$t_p$	2 1/4 (57)	1 1/2 (13)	1 1/2 (38)	1 1/2 (13)	2 1/2 (64)	3/4 (19)			
$b_p$	10 3/4 (273)	7 (178)	10 3/4 (273)	10 3/4 (273)	15 (381)	9 (229)			
$g$	6 (152)	4 (102)	6 (152)	3 1/4 (83)	6 (152)	5 (127)			
$p_{fl}, p_{fo}$	4 1/2 (114)	1 1/2 (38)	5 1/2 (140)	1 3/4 (44)	2 (51)	1 3/4 (44)			
$p_b$	—	—	—	—	3 3/4 (95)	3 1/2 (89)			
$d$	55 (1400)	25 (635)	24 (610)	13 3/4 (349)	36 (914)	18 1/2 (470)			
$t_{bf}$	3/4 (19)	3/8 (10)	3/4 (19)	3/8 (10)	1 (25)	19/32 (16)			
$b_{bf}$	9 1/4 (235)	6 (152)	9 (229)	6 (152)	12 1/4 (311)	7 3/4 (197)	423.26 5 Eq. 6.9-8,	0.00	LC-2