Table 3-9 Prequalification Data for Bolted Stiffened End Plate Connections

General	
Applicable systems	OMF, SMF
Hinge location distance s_h	$d_c/2 + t_{pl} + L_{st}$
Critical Beam Parameters	
Maximum depth	W36
Minimum span-to-depth ratio	OMF: 5 SMF: 7
Flange thickness	up to 1”
Permissible material specifications	A572 Grade 50, A992, A913 Gr50/S75
Critical Column Parameters	
Depth range	OMF: Not Limited SMF: W12, W14
Flange thickness	Section 3.6.2.1, Step 6
Permissible material specifications	A572, Grade 50; A913 Grade 50 and 65, A992
Beam /Column Relations	
Panel zone strength	SMF: Sec. 3.6.2.1, Step 8
Column/beam bending strength ratio	SMF: Sec. 2.9.1
Connection Details	
Bolts:	
Bolt diameter	Section 3.6.2.1, Step 1
Bolt grades	A325 and A490.
Installation requirements	Pretensioned
Washers	Single F436 when required
Hole type	Standard
End Plate:	
End plate thickness and rib size	Section 3.6.2.1, Step 2
End plate and rib material specification	A36
Flange welds:	
Weld type	CJP groove weld similar to AWS TC-U4b, 3/8” fillet used as backing, root backgouged prior to start of groove weld. See Fig. 3-15.
Weld metal	Section 3.3.2.4
Weld access holes	Not permitted
Web connection:	Figure 3-15
Continuity plate thickness	Section 3.6.2.1, Steps 4 and 5