

**Table 3-12 Prequalification Data for Full Strength DST Connections (FSDST)**

<b>General</b>	
Applicable systems	OMF, SMF
Connection classification	Full-Strength – Partial-Stiffness (PR)
Hinge location distance $s_h$	End of T-stubs
<b>Critical Beam Parameters</b>	
Maximum depth	OMF: W36 SMF: W24
Minimum span-to-depth ratio	OMF: 5 SMF: 8
Permissible material specifications	A572 Grade 50, A992, A913, Grade 50/S75
<b>Critical Column Parameters</b>	
Depth range	OMF: Not Limited. SMF: W12, W14 Flange width governed by required length of T-stub flange
Permissible material specifications	A572 Grade 50, A913 Grade 50 or 65, A992
Flange thickness	Section 3.7.1.2, Steps 11 and 12.
<b>Critical Beam Column Relations</b>	
Panel zone strength	SMF: Section. 3.7.1.2, Step 3
Column/beam bending strength ratio	SMF: Sec. 2.9.1
<b>Critical Connection Details</b>	
<i>T-stub Parameters:</i>	
Hole type	Standard
Permissible material specifications	A572 Grade 50, A992
Design method	3.7.1.2
<i>Web connection parameters:</i>	
Shear tab:	
Permissible material specifications	A36, A572 Grade 50
Plate thickness	5/16" to 1/2"
Hole type	SSLT
Weld type	CJP groove or double fillet. See Fig. 3-20.
Weld metal	Section 3.3.2.4
Double web angle:	
Permissible material specifications	A36, A572 Grade 50
Angle thickness	5/16" to 1/2"
Hole type	STD, SSLT
<i>Bolt Characteristics:</i>	
Bolt diameter	7/8" or 1"
Bolt grade	A325-X or A490-X
Bolt spacing	3x bolt diameter min.
Installation requirements	Pretensioned
Washers	F436 as required