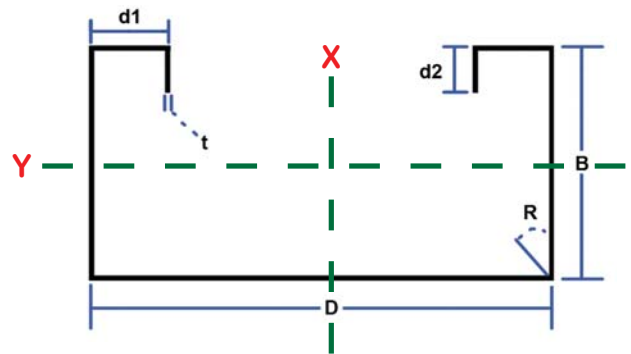


Important Notes

1. Effective properties incorporate the strength increase from the cold-work of forming as applicable per AISI S100-07, Section A7.2.
2. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
3. Allowable moment is the lesser of M_{al} and M_{ad} . Stud distortional buckling is based on an assumed $k_{\phi} = 0$.
4. For deflection calculations, use the effective moment of inertia.
5. The effective moment of inertia for deflection is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-07 Procedure I for serviceability determination has been used.



JamStud® Section Dimensions							
JamStud® Section (All Studs 50ksi)	Overall Depth	Flange Width	Return Lip 1	Return Lip 2	Inside Bend Radius	Design Thickness	Unit Weight
	D	B	d1	d2	R	t	(lbs/ft)
	(in)	(in)	(in)	(in)	(in)	(in)	
350JS250-33	3.5	2.5	0.5892	0.5	0.105	0.0346	1.196
350JS250-43	3.5	2.5	0.6102	0.5	0.105	0.0451	1.553
350JS250-54	3.5	2.5	0.6332	0.5	0.105	0.0566	1.942
350JS250-68	3.5	2.5	0.6626	0.5	0.105	0.0713	2.435
350JS250-97	3.5	2.5	0.7234	0.5	0.105	0.1017	3.438
350JS350-68	3.5	3.5	0.6626	0.5	0.105	0.0713	2.920
350JS350-97	3.5	3.5	0.7234	0.5	0.105	0.1017	4.130
350JS350-118	3.5	3.5	0.7684	0.5	0.105	0.1242	5.005
362JS250-33	3.625	2.5	0.5892	0.5	0.105	0.0346	1.210
362JS250-43	3.625	2.5	0.6102	0.5	0.105	0.0451	1.572
362JS250-54	3.625	2.5	0.6332	0.5	0.105	0.0566	1.966
362JS250-68	3.625	2.5	0.6626	0.5	0.105	0.0713	2.465
362JS250-97	3.625	2.5	0.7234	0.5	0.105	0.1017	3.481
362JS350-68	3.625	3.5	0.6626	0.5	0.105	0.0713	2.950
362JS350-97	3.625	3.5	0.7234	0.5	0.105	0.1017	4.173
362JS350-118	3.625	3.5	0.7684	0.5	0.105	0.1242	5.058
400JS250-33	4	2.5	0.5892	0.5	0.105	0.0346	1.255
400JS250-43	4	2.5	0.6102	0.5	0.105	0.0451	1.630
400JS250-54	4	2.5	0.6332	0.5	0.105	0.0566	2.038
400JS250-68	4	2.5	0.6626	0.5	0.105	0.0713	2.556
400JS250-97	4	2.5	0.7234	0.5	0.105	0.1017	3.611
400JS350-68	4	3.5	0.6626	0.5	0.105	0.0713	3.041
400JS350-97	4	3.5	0.7234	0.5	0.105	0.1017	4.303
400JS350-118	4	3.5	0.7684	0.5	0.105	0.1242	5.216

JamStud® Section Dimensions							
JamStud® Section (All Studs 50ksi)	Overall Depth	Flange Width	Return Lip 1	Return Lip 2	Inside Bend Radius	Design Thickness	Unit Weight
	D	B	d1	d2	R	t	(lbs/ft)
	(in)	(in)	(in)	(in)	(in)	(in)	
550JS250-33	5.5	2.5	0.5892	0.5	0.105	0.0346	1.431
550JS250-43	5.5	2.5	0.6102	0.5	0.105	0.0451	1.860
550JS250-54	5.5	2.5	0.6332	0.5	0.105	0.0566	2.327
550JS250-68	5.5	2.5	0.6626	0.5	0.105	0.0713	2.920
550JS250-97	5.5	2.5	0.7234	0.5	0.105	0.1017	4.130
550JS250-118	5.5	2.5	0.7684	0.5	0.105	0.1242	5.005
550JS350-68	5.5	3.5	0.6626	0.5	0.105	0.0713	3.405
550JS350-97	5.5	3.5	0.7234	0.5	0.105	0.1017	4.822
550JS350-118	5.5	3.5	0.7684	0.5	0.105	0.1242	5.849
600JS250-33	6	2.5	0.5892	0.5	0.105	0.0346	1.490
600JS250-43	6	2.5	0.6102	0.5	0.105	0.0451	1.937
600JS250-54	6	2.5	0.6332	0.5	0.105	0.0566	2.424
600JS250-68	6	2.5	0.6626	0.5	0.105	0.0713	3.041
600JS250-97	6	2.5	0.7234	0.5	0.105	0.1017	4.303
600JS250-118	6	2.5	0.7684	0.5	0.105	0.1242	5.216
600JS350-68	6	3.5	0.6626	0.5	0.105	0.0713	3.527
600JS350-97	6	3.5	0.7234	0.5	0.105	0.1017	4.995
600JS350-118	6	3.5	0.7684	0.5	0.105	0.1242	6.060
800JS250-43	8	2.5	0.6102	0.5	0.105	0.0451	2.244
800JS250-54	8	2.5	0.6332	0.5	0.105	0.0566	2.809
800JS250-68	8	2.5	0.6626	0.5	0.105	0.0713	3.527
800JS250-97	8	2.5	0.7234	0.5	0.105	0.1017	4.995
800JS250-118	8	2.5	0.7684	0.5	0.105	0.1242	6.060
800JS350-68	8	3.5	0.6626	0.5	0.105	0.0713	4.012
800JS350-97	8	3.5	0.7234	0.5	0.105	0.1017	5.688
800JS350-118	8	3.5	0.7684	0.5	0.105	0.1242	6.904

Material Properties

ASTM A1003/A1003M or ASTM A653/A653M, Grade 50 (340), 50ksi (340MPa) minimum yield strength, 65ksi (450 MPa) minimum tensile strength, G-60 (Z180) hot-dipped galvanized coating.



Important Notes

- 1. Effective properties incorporate the strength increase from the cold-work of forming as applicable per AISI S100-07, Section A7.2.
2. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
3. Allowable moment is the lesser of M_al and M_ad. Stud distortional buckling is based on an assumed k_phi = 0.
4. For deflection calculations, use the effective moment of inertia.
5. The effective moment of inertia for deflection is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-07 Procedure I for serviceability determination has been used.

Table with columns: JamStud Section (All 50 ksi), Gross Properties (for Un-punched Sections), Effective Properties 50 ksi ("net" = Punched Sections), and Effective Properties if limited to 33 ksi Strength. Rows include section numbers like 350JS250-33, 362JS250-33, etc.

I_y and M_ya are based on the web element in tension

I_y and M_ya are based on the web element in compression