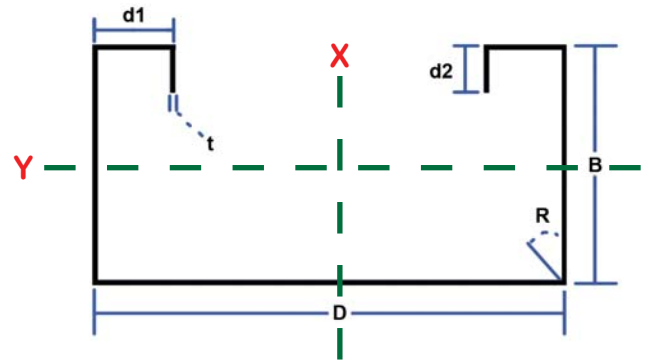


Floor Systems

PrimeJoist® Product Profile

Important Notes

1. Calculated properties are based on AISI S100-12, "North American Specification for the Design of Cold-Formed Steel Structural Members."
2. Effective properties incorporate the strength increase from the cold-work of forming as applicable per AISI A7.2.
3. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
4. Allowable moment is the lesser of M_{ai} and M_{ad} . Stud distortional buckling is based on an assumed $k_{\phi} = 0$.
5. For deflection calculations, use the effective moment of inertia.
6. 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 S100-12 Specification Procedure I for serviceability determination has been used. Increases in the effective moment of Inertia (I_{xe}) may be possible at lower stress levels. Any modified values would be required to be calculated by a qualified engineer.



PrimeJoist® Section Dimensions							
Section (All Studs 50ksi)	Overall Depth	Flange Width	Return Lip 1	Return Lip 2	Inside Bend Radius	Design Thickness	Unit Weight (lbs/ft)
	D	B	d1	d2	R	t	
	(in)	(in)	(in)	(in)	(in)	(in)	
600PJ250-33	6	2.5	0.589	0.5	0.105	0.0346	1.49
600PJ250-43	6	2.5	0.610	0.5	0.105	0.0451	1.94
600PJ250-54	6	2.5	0.633	0.5	0.105	0.0566	2.42
600PJ250-68	6	2.5	0.663	0.5	0.105	0.0713	3.04
600PJ250-97	6	2.5	0.723	0.5	0.105	0.1017	4.30
600PJ250-118	6	2.5	0.768	0.5	0.105	0.1242	5.22
600PJ350-68	6	3.5	0.663	0.5	0.105	0.0713	3.53
600PJ350-97	6	3.5	0.723	0.5	0.105	0.1017	5.00
600PJ350-118	6	3.5	0.768	0.5	0.105	0.1242	6.06
800PJ250-43	8	2.5	0.610	0.5	0.105	0.0451	2.24
800PJ250-54	8	2.5	0.633	0.5	0.105	0.0566	2.81
800PJ250-68	8	2.5	0.663	0.5	0.105	0.0713	3.53
800PJ250-97	8	2.5	0.723	0.5	0.105	0.1017	5.00
800PJ250-118	8	2.5	0.768	0.5	0.105	0.1242	6.06
800PJ350-68	8	3.5	0.663	0.5	0.105	0.0713	4.01
800PJ350-97	8	3.5	0.723	0.5	0.105	0.1017	5.69
800PJ350-118	8	3.5	0.768	0.5	0.105	0.1242	6.90
925PJ250-43	9.25	2.5	0.610	0.5	0.105	0.0451	2.44
925PJ250-54	9.25	2.5	0.633	0.5	0.105	0.0566	3.05
925PJ250-68	9.25	2.5	0.663	0.5	0.105	0.0713	3.83
925PJ250-97	9.25	2.5	0.723	0.5	0.105	0.1017	5.43
925PJ250-118	9.25	2.5	0.768	0.5	0.105	0.1242	6.59
925PJ350-68	9.25	3.5	0.663	0.5	0.105	0.0713	4.32
925PJ350-97	9.25	3.5	0.723	0.5	0.105	0.1017	6.12
925PJ350-118	9.25	3.5	0.768	0.5	0.105	0.1242	7.43
1000PJ250-43	10	2.5	0.610	0.5	0.105	0.0451	2.55
1000PJ250-54	10	2.5	0.633	0.5	0.105	0.0566	3.19
1000PJ250-68	10	2.5	0.663	0.5	0.105	0.0713	4.01
1000PJ250-97	10	2.5	0.723	0.5	0.105	0.1017	5.69
1000PJ250-118	10	2.5	0.768	0.5	0.105	0.1242	6.90

PrimeJoist® Section Dimensions							
Section (All Studs 50ksi)	Overall Depth	Flange Width	Return Lip 1	Return Lip 2	Inside Bend Radius	Design Thickness	Unit Weight (lbs/ft)
	D	B	d1	d2	R	t	
	(in)	(in)	(in)	(in)	(in)	(in)	
1000PJ350-68	10	3.5	0.663	0.5	0.105	0.0713	4.50
1000PJ350-97	10	3.5	0.723	0.5	0.105	0.1017	6.38
1000PJ350-118	10	3.5	0.768	0.5	0.105	0.1242	7.75
1125PJ250-54	11.25	2.5	0.633	0.5	0.105	0.0566	3.44
1125PJ250-68	11.25	2.5	0.663	0.5	0.105	0.0713	4.32
1125PJ250-97	11.25	2.5	0.723	0.5	0.105	0.1017	6.12
1125PJ250-118	11.25	2.5	0.768	0.5	0.105	0.1242	7.43
1125PJ350-68	11.25	3.5	0.663	0.5	0.105	0.0713	4.80
1125PJ350-97	11.25	3.5	0.723	0.5	0.105	0.1017	6.81
1125PJ350-118	11.25	3.5	0.768	0.5	0.105	0.1242	8.28
1200PJ250-54	12	2.5	0.633	0.5	0.105	0.0566	3.58
1200PJ250-68	12	2.5	0.663	0.5	0.105	0.0713	4.50
1200PJ250-97	12	2.5	0.723	0.5	0.105	0.1017	6.38
1200PJ250-118	12	2.5	0.768	0.5	0.105	0.1242	7.75
1200PJ350-68	12	3.5	0.663	0.5	0.105	0.0713	4.98
1200PJ350-97	12	3.5	0.723	0.5	0.105	0.1017	7.07
1200PJ350-118	12	3.5	0.768	0.5	0.105	0.1242	8.59
1400PJ250-54	14	2.5	0.633	0.5	0.105	0.0566	3.96
1400PJ250-68	14	2.5	0.663	0.5	0.105	0.0713	4.98
1400PJ250-97	14	2.5	0.723	0.5	0.105	0.1017	7.07
1400PJ250-118	14	2.5	0.768	0.5	0.105	0.1242	8.59
1400PJ350-68	14	3.5	0.663	0.5	0.105	0.0713	5.47
1400PJ350-97	14	3.5	0.723	0.5	0.105	0.1017	7.76
1400PJ350-118	14	3.5	0.768	0.5	0.105	0.1242	9.44
1600PJ250-68	16	2.5	0.663	0.5	0.105	0.0713	5.47
1600PJ250-97	16	2.5	0.723	0.5	0.105	0.1017	7.76
1600PJ250-118	16	2.5	0.768	0.5	0.105	0.1242	9.44

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.

