

24-Gauge & 16-Gauge Framing Member Components		Weight/LF	A(in ²) (Full)	I (Effective) in ⁴		Allow. Moment (in. - kips)		Allow. Shear (kips)
				T.I.C.	B.I.C.	T.I.C.	B.I.C.	
Hat Section Purlin 24-Gauge		0.66 lbs	.1900	.0665	.0679	1.61	1.77	1.01
Framing Section 24-Gauge		.066 lbs	.1900	.0759	.0866	1.80	2.26	1.08
Channel Section 24-Gauge		0.48 lbs	.1380	.0530	.0556	1.15	1.21	1.08
Furring Channel 24-Gauge		0.35 lbs	.1030	.0180	.0180	0.78	0.86	0.53
High Purlin 16-Gauge		1.28 lbs	0.422	.151		5.74		2.71
Low Purlin 16-Gauge		0.86 lbs	0.242	.017		1.51		0.61
Angle 1 1/2" x 2" 16-Gauge		0.73 lbs	0.203	.084	.029	1.78	0.56	1.31
Channel 4" x 2" 16-Gauge		1.98 lbs	0.501	1.22		17.7		3.76
Channel & Zee Purlin 4" x 2 1/2" 16-Gauge		2.19 lbs	0.557	1.42		18.4		3.84
Channel 6" x 2" 16-Gauge		2.40 lbs	0.621	3.15		30.6		3.45
Channel & Zee Purlin 6" x 2 1/2" 16-Gauge		2.60 lbs	0.677	3.61		31.8		3.20
Channel 8" x 2" 16-Gauge		2.60 lbs	0.737	6.43		45.0		2.36
Channel & Zee Purlin 8" x 2 1/2" 16-Gauge		2.81 lbs	0.797	7.09		47.7		2.36

Notes for 24 GA (0.60 mm) & 16 GA (1.52 mm) shapes:

1. Values based on 2007 North American Specification for the Design of Cold-Formed Steel Structural members, with compression flange braced against lateral buckling.
2. Net section properties are used for resisting moment determination and allowable shear loads.
3. Minimum yield strength = 40 ksi for 24 gauge shapes and 50 ksi for 16 gauge shapes (galvanized steel material).

4. E = 29,500 ksi.
5. Values are for upward and downward loads.
6. T.I.C. = Top in compression
7. B.I.C. = Bottom in compression

All information subject to change without notice. See website for details, specifications, and Watertightness Warranty requirements.