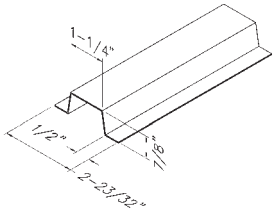
Physical & structural properties — furring and channel

Physical & structural properties for hat furring channels

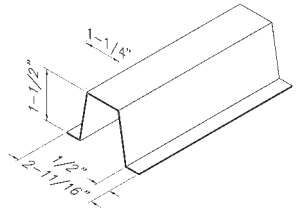
Member	Fy (ksi)	Design thickness (in)	Area (in^2)	Weight (lb/ft)	Gross Properties				Effective Properties			
					Ix (in^4)	Rx (in)	Iy (in^4)	Ry (in)	Ix (in^4)	Sx (in^3)	Ma (Ft-lb)	Va (lb)
087F125-18	33	0.0188	0.070	0.239	0.009	0.356	0.035	0.710	0.0086	0.0160	26.41	315.3
087F125-27	33	0.0283	0.105	0.356	0.013	0.353	0.053	0.710	0.0131	0.0272	44.78	467.9
087F125-30	33	0.0312	0.115	0.391	0.014	0.353	0.058	0.710	0.0143	0.0307	50.47	513.7
087F125-33	33	0.0346	0.127	0.432	0.016	0.351	0.064	0.710	0.0157	0.0337	55.43	566.7
087F125-43	33	0.0451	0.162	0.550	0.020	0.348	0.082	0.711	0.0196	0.0420	69.17	684.6
087F125-54	33	0.0566	0.197	0.669	0.023	0.345	0.099	0.711	0.0234	0.0501	82.45	762.5
150F125-18	33	0.0188	0.094	0.320	0.031	0.575	0.047	0.705	0.0299	0.0344	56.59	604.4
150F125-27	33	0.0283	0.140	0.477	0.046	0.572	0.070	0.705	0.0459	0.0569	93.74	903.1
150F125-30	33	0.0312	0.154	0.525	0.050	0.571	0.077	0.705	0.0503	0.0639	105.25	993.4
150F125-33	33	0.0346	0.171	0.581	0.055	0.570	0.085	0.705	0.0554	0.0704	115.92	1098.8
150F125-43	33	0.0451	0.219	0.745	0.070	0.565	0.109	0.705	0.0699	0.0888	146.25	1378.1
150F125-54	33	0.0566	0.269	0.914	0.084	0.561	0.134	0.705	0.0844	0.1071	176.36	1632.8

Notes:

1. Properties based on the 2001 NASPEC, including the 2004 Supplement.
2. Design thickness used for determination of properties. Minimum delivered thickness must be no less than 95% of design thickness.
3. For deflection calculations, use effective Ixx. Effective Ixx is based on Procedure 1 of the NASPEC.
4. Effective properties are given as the minimum value for positive or negative bending.



7/8" DRYWALL FURRING CHANNEL
087F125

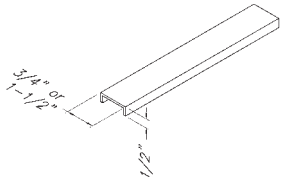


1-1/2" DRYWALL HAT CHANNEL
150F125

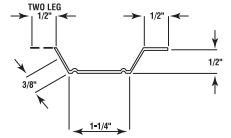
Physical & structural properties for cold-rolled channel, resilient furring & Z furring

Section	Fy (ksi)	Design thickness (in)	Area (in^2)	Weight (lb/ft)	Gross properties				Effective properties		
					Ix (in^4)	Rx (in)	Iy (in^4)	Ry (in)	Ix (in^4)	Sx (in^3)	Ma (Ft-lb)
075U50-54	33	0.0566	0.0867	0.2950	0.0072	0.2876	0.0021	0.1545	0.0072	0.0191	38
150U50-54	33	0.0566	0.1292	0.4396	0.0387	0.5475	0.0027	0.1430	0.0387	0.0516	102
One Leg RFC-18	33	0.0188	0.0504	0.1715	0.0019	0.1964	0.0215	0.6534	–	–	–
Two Leg RFC-18	33	0.0188	0.0643	0.2188	0.0029	0.2137	0.0427	0.8153	–	–	–
100Z Furring-18	33	0.0188	0.0550	0.1872	0.0100	0.4260	0.0130	0.4970	–	–	–
100Z Furring-30	33	0.0312	0.0887	0.3018	0.0154	0.4167	0.0210	0.4868	–	–	–
150Z Furring-18	33	0.0188	0.0640	0.2178	0.0250	0.6210	0.0140	0.4700	–	–	–
150Z Furring-30	33	0.0312	0.1043	0.3549	0.0385	0.6072	0.0214	0.4532	–	–	–
200Z Furring-18	33	0.0188	0.0730	0.2484	0.0480	0.8080	0.0150	0.4500	–	–	–
200Z Furring-30	33	0.0312	0.1199	0.4080	0.0745	0.7880	0.0217	0.4256	–	–	–
250Z Furring-18	33	0.0188	0.0830	0.2824	0.0810	0.9890	0.0160	0.4330	–	–	–
250Z Furring-30	33	0.0312	0.1355	0.4611	0.1254	0.9620	0.0220	0.4024	–	–	–
300Z Furring-18	33	0.0188	0.0920	0.3131	0.1250	1.1670	0.0160	0.4190	–	–	–
300Z Furring-30	33	0.0312	0.1511	0.5142	0.1933	1.1308	0.0221	0.3827	–	–	–

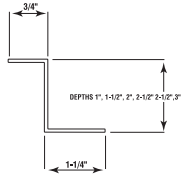
1. Refer to the Gypsum Association's "Fire Resistance Design Manual" (GA-600) for assemblies using Resilient Furring Channels.



COLD-ROLLED CHANNEL
75U50 & 150U50



ONE LEG RESILIENT FURRING CHANNEL (SHOWN)
TWO LEG ALSO AVAILABLE



Z FURRING