

**Southwest Fireproofing Type 5 GP, 5 MD, 7 GP and 7 HD
Design No. P741 - Beam / Roof Assembly**

Minimum Thickness, in., Required on Beam When Lower Flange Edge Thickness is Reduced by One-Half *

Member	W/D	Unrestrained Beam Rating		
		1 Hr	1.5 Hr	2 Hr
W4x13	0.65	0.504	0.819	1.134
W5x16	0.65	0.504	0.819	1.134
W5x19	0.76	0.463	0.753	1.042
W6x9	0.39	0.636	1.034	1.432
W6x12	0.51	0.568	0.922	1.277
W6x16	0.66	0.500	0.813	1.125
W6x20	0.67	0.496	0.806	1.116
W6x26	0.82	0.444	0.721	0.998
W8x10	0.37	0.649	1.055	1.461
W8x13	0.47	0.589	0.957	1.325
W8x15	0.54	0.553	0.898	1.243
W8x18	0.57	0.538	0.875	1.212
W8x21	0.66	0.500	0.813	1.125
W8x24	0.69	0.488	0.794	1.099
W8x28	0.80	0.450	0.731	1.013
W8x31	0.79	0.453	0.737	1.020
W8x35	0.88	0.426	0.692	0.958
W8x40	1.00	0.394	0.640	0.886
W8x48	1.18	0.375	0.575	0.796
W8x58	1.41	0.375	0.509	0.705
W8x67	1.61	0.375	0.463	0.641
W10x12	0.38	0.643	1.045	1.446
W10x15	0.48	0.583	0.948	1.313
W10x17	0.54	0.553	0.898	1.243
W10x19	0.59	0.529	0.860	1.191
W10x22	0.59	0.529	0.860	1.191
W10x26	0.69	0.488	0.794	1.099
W10x30	0.79	0.453	0.737	1.020
W10x33	0.77	0.460	0.747	1.035
W10x39	0.90	0.420	0.683	0.945
W10x46	1.03	0.387	0.628	0.870
W10x49	0.99	0.396	0.644	0.892
W10x54	1.09	0.375	0.606	0.839
W10x60	1.20	0.375	0.569	0.788
W10x68	1.36	0.375	0.522	0.723
W10x77	1.52	0.375	0.483	0.669
W10x88	1.72	0.375	0.441	0.611
W10x100	1.93	0.375	0.405	0.560
W10x112	2.14	0.375	0.375	0.517
W12x14	0.40	0.630	1.024	1.418
W12x16	0.45	0.600	0.975	1.350
W12x19	0.53	0.558	0.906	1.254
W12x22	0.61	0.521	0.846	1.171
W12x26	0.60	0.525	0.853	1.181

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		1 Hr	1.5 Hr	2 Hr
W12x30	0.69	0.488	0.794	1.099
W12x35	0.79	0.453	0.737	1.020
W12x40	0.85	0.434	0.706	0.978
W12x45	0.95	0.406	0.660	0.915
W12x50	1.04	0.384	0.624	0.864
W12x53	0.99	0.396	0.644	0.892
W12x54	1.04	0.384	0.624	0.864
W12x58	1.08	0.375	0.609	0.844
W12x65	1.09	0.375	0.606	0.839
W12x72	1.20	0.375	0.569	0.788
W12x79	1.32	0.375	0.533	0.738
W12x87	1.44	0.375	0.502	0.695
W12x96	1.57	0.375	0.472	0.653
W12x106	1.73	0.375	0.439	0.608
W12x120	1.94	0.375	0.403	0.558
W12x136	2.17	0.375	0.375	0.512
W12x152	2.40	0.375	0.375	0.473
W12x170	2.66	0.375	0.375	0.435
W12x190	2.93	0.375	0.375	0.402
W12x210	3.21	0.375	0.375	0.375
W12x230	3.47	0.375	0.375	0.375
W12x262	3.76	0.375	0.375	0.375
W12x279	4.10	0.375	0.375	0.375
W12x305	4.41	0.375	0.375	0.375
W12x336	4.78	0.375	0.375	0.375
W14x22	0.52	0.563	0.914	1.266
W14x26	0.61	0.521	0.846	1.171
W14x30	0.63	0.512	0.832	1.152
W14x34	0.71	0.481	0.781	1.082
W14x38	0.79	0.453	0.737	1.020
W14x43	0.85	0.434	0.706	0.978
W14x48	0.94	0.409	0.665	0.920
W14x53	1.03	0.387	0.628	0.870
W14x61	1.07	0.377	0.613	0.849
W14x68	1.19	0.375	0.572	0.792
W14x74	1.28	0.375	0.545	0.754
W14x82	1.41	0.375	0.509	0.705
W14x90	1.27	0.375	0.547	0.758
W14x99	1.39	0.375	0.514	0.712
W14x109	1.53	0.375	0.481	0.665
W14x120	1.67	0.375	0.451	0.624
W14x132	1.83	0.375	0.421	0.583
W14x145	1.94	0.375	0.403	0.558
W14x159	2.11	0.375	0.378	0.523

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Member	W/D	Unrestrained Beam Rating		
		1 Hr	1.5 Hr	2 Hr
W14x176	2.25	0.375	0.375	0.497
W14x193	2.32	0.375	0.375	0.485
W14x211	2.74	0.375	0.375	0.424
W14x233	3.00	0.375	0.375	0.394
W14x257	3.27	0.375	0.375	0.375
W14x283	3.57	0.375	0.375	0.375
W14x311	3.88	0.375	0.375	0.375
W14x342	4.21	0.375	0.375	0.375
W14x370	4.51	0.375	0.375	0.375
W14x398	4.80	0.375	0.375	0.375
W14x426	5.09	0.375	0.375	0.375
W14x455	5.38	0.375	0.375	0.375
W14x500	5.82	0.375	0.375	0.375
W14x550	6.30	0.375	0.375	0.375
W14x605	6.80	0.375	0.375	0.375
W16x26	0.55	0.548	0.890	1.233
W16x31	0.65	0.504	0.819	1.134
W16x36	0.69	0.488	0.794	1.099
W16x40	0.76	0.463	0.753	1.042
W16x45	0.85	0.434	0.706	0.978
W16x50	0.94	0.409	0.665	0.920
W16x67	1.07	0.377	0.613	0.849
W16x77	1.07	0.377	0.613	0.849
W16x89	1.22	0.375	0.563	0.779
W16x100	1.56	0.375	0.474	0.656
W18x35	0.66	0.500	0.813	1.125
W18x40	0.76	0.463	0.753	1.042
W18x46	0.86	0.432	0.701	0.971
W18x50	0.87	0.429	0.696	0.964
W18x55	0.95	0.406	0.660	0.915
W18x60	1.03	0.387	0.628	0.870
W18x65	1.11	0.375	0.599	0.829
W18x71	1.21	0.375	0.566	0.783
W18x76	1.11	0.375	0.599	0.829
W18x88	1.24	0.375	0.556	0.770
W18x97	1.39	0.375	0.514	0.712
W18x106	1.52	0.375	0.483	0.669
W18x119	1.68	0.375	0.449	0.622
W21x44	0.73	0.474	0.770	1.066
W21x50	0.83	0.441	0.716	0.991
W21x57	0.93	0.412	0.669	0.926
W21x62	0.94	0.409	0.665	0.920
W21x68	1.03	0.387	0.628	0.870
W21x83	1.24	0.375	0.556	0.770

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Member	W/D	Unrestrained Beam Rating		
		1 Hr	1.5 Hr	2 Hr
W21x93	1.38	0.375	0.517	0.716
W21x101	1.29	0.375	0.542	0.750
W21x111	1.41	0.375	0.509	0.705
W21x122	1.54	0.375	0.478	0.662
W21x132	1.66	0.375	0.453	0.627
W21x147	1.83	0.375	0.421	0.583
W24x55	0.82	0.444	0.721	0.998
W24x62	0.92	0.414	0.674	0.933
W24x68	0.93	0.412	0.669	0.926
W24x76	1.02	0.389	0.632	0.875
W24x84	1.13	0.375	0.592	0.819
W24x94	1.26	0.375	0.550	0.762
W24x104	1.22	0.375	0.563	0.779
W24x117	1.36	0.375	0.522	0.723
W24x131	1.52	0.375	0.483	0.669
W24x146	1.68	0.375	0.449	0.622
W24x162	1.85	0.375	0.418	0.579
W27x84	1.02	0.389	0.632	0.875
W27x94	1.13	0.375	0.592	0.819
W27x102	1.23	0.375	0.559	0.775
W27x114	1.36	0.375	0.522	0.723
W27x146	1.53	0.375	0.481	0.665
W27x161	1.68	0.375	0.449	0.622
W27x178	1.85	0.375	0.418	0.579
W30x99	1.10	0.375	0.602	0.834
W30x108	1.20	0.375	0.569	0.788
W30x116	1.28	0.375	0.545	0.754
W30x124	1.37	0.375	0.520	0.720
W30x132	1.46	0.375	0.497	0.688
W30x173	1.66	0.375	0.453	0.627
W30x191	1.82	0.375	0.423	0.586
W30x211	2.00	0.375	0.394	0.545
W33x118	1.19	0.375	0.572	0.792
W33x130	1.31	0.375	0.536	0.742
W33x141	1.41	0.375	0.509	0.705
W33x152	1.51	0.375	0.485	0.672
W33x201	1.78	0.375	0.430	0.596

These beam protection thicknesses have been calculated for the convenience of users, in accordance with "6. Adjustment of Thickness of Spray-applied Fire Resistive Materials for Restrained and Unrestrained Beams", as detailed in the UL FireResistance Directory - Volume 1, 2007, page 9. While we have taken care to be as accurate as possible, we will not be held responsible for errors or omissions. If any discrepancy is found between these tables and the UL Design information, the UL Design information shall govern.

* Thickness applied to beam's lower flange edge shall be a minimum of 1/4-in.