

**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	0.50	0.82	1.13
W5x16	0.65	0.50	0.82	1.13
W5x19	0.76	0.46	0.75	1.04
W6x9	0.39	0.64	1.03	1.43
W6x12	0.51	0.57	0.92	1.28
W6x16	0.66	0.50	0.81	1.13
W6x20	0.67	0.50	0.81	1.12
W6x26	0.82	0.44	0.72	1.00
W8x10	0.37	0.65	1.06	1.46
W8x13	0.47	0.59	0.96	1.32
W8x15	0.54	0.55	0.90	1.24
W8x18	0.57	0.54	0.88	1.21
W8x21	0.66	0.50	0.81	1.13
W8x24	0.69	0.49	0.79	1.10
W8x28	0.80	0.45	0.73	1.01
W8x31	0.79	0.45	0.74	1.02
W8x35	0.88	0.43	0.69	0.96
W8x40	1.00	0.39	0.64	0.89
W8x48	1.18	0.38	0.58	0.80
W8x58	1.41	0.38	0.51	0.71
W8x67	1.61	0.38	0.46	0.64
W10x12	0.38	0.64	1.04	1.45
W10x15	0.48	0.58	0.95	1.31
W10x17	0.54	0.55	0.90	1.24
W10x19	0.59	0.53	0.86	1.19
W10x22	0.59	0.53	0.86	1.19
W10x26	0.69	0.49	0.79	1.10
W10x30	0.79	0.45	0.74	1.02
W10x33	0.77	0.46	0.75	1.03
W10x39	0.90	0.42	0.68	0.95
W10x46	1.03	0.39	0.63	0.87
W10x49	0.99	0.40	0.64	0.89
W10x54	1.09	0.38	0.61	0.84
W10x60	1.20	0.38	0.57	0.79
W10x68	1.36	0.38	0.52	0.72
W10x77	1.52	0.38	0.48	0.67
W10x88	1.72	0.38	0.44	0.61
W10x100	1.93	0.38	0.40	0.56
W10x112	2.14	0.38	0.38	0.52
W12x14	0.40	0.63	1.02	1.42
W12x16	0.45	0.60	0.98	1.35
W12x19	0.53	0.56	0.91	1.25
W12x22	0.61	0.52	0.85	1.17
W12x26	0.60	0.53	0.85	1.18

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		1 Hr	1.5 Hr	2 Hr
W12x30	0.69	0.49	0.79	1.10
W12x35	0.79	0.45	0.74	1.02
W12x40	0.85	0.43	0.71	0.98
W12x45	0.95	0.41	0.66	0.91
W12x50	1.04	0.38	0.62	0.86
W12x53	0.99	0.40	0.64	0.89
W12x54	1.04	0.38	0.62	0.86
W12x58	1.08	0.38	0.61	0.84
W12x65	1.09	0.38	0.61	0.84
W12x72	1.20	0.38	0.57	0.79
W12x79	1.32	0.38	0.53	0.74
W12x87	1.44	0.38	0.50	0.69
W12x96	1.57	0.38	0.47	0.65
W12x106	1.73	0.38	0.44	0.61
W12x120	1.94	0.38	0.40	0.56
W12x136	2.17	0.38	0.38	0.51
W12x152	2.40	0.38	0.38	0.47
W12x170	2.66	0.38	0.38	0.43
W12x190	2.93	0.38	0.38	0.40
W12x210	3.21	0.38	0.38	0.38
W12x230	3.47	0.38	0.38	0.38
W12x262	3.76	0.38	0.38	0.38
W12x279	4.10	0.38	0.38	0.38
W12x305	4.41	0.38	0.38	0.38
W12x336	4.78	0.38	0.38	0.38
W14x22	0.52	0.56	0.91	1.27
W14x26	0.61	0.52	0.85	1.17
W14x30	0.63	0.51	0.83	1.15
W14x34	0.71	0.48	0.78	1.08
W14x38	0.79	0.45	0.74	1.02
W14x43	0.85	0.43	0.71	0.98
W14x48	0.94	0.41	0.66	0.92
W14x53	1.03	0.39	0.63	0.87
W14x61	1.07	0.38	0.61	0.85
W14x68	1.19	0.38	0.57	0.79
W14x74	1.28	0.38	0.54	0.75
W14x82	1.41	0.38	0.51	0.71
W14x90	1.27	0.38	0.55	0.76
W14x99	1.39	0.38	0.51	0.71
W14x109	1.53	0.38	0.48	0.67
W14x120	1.67	0.38	0.45	0.62
W14x132	1.83	0.38	0.42	0.58
W14x145	1.94	0.38	0.40	0.56
W14x159	2.11	0.38	0.38	0.52

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Member	W/D	Unrestrained Beam Rating		
		1 Hr	1.5 Hr	2 Hr
W14x176	2.25	0.38	0.38	0.50
W14x193	2.32	0.38	0.38	0.49
W14x211	2.74	0.38	0.38	0.42
W14x233	3.00	0.38	0.38	0.39
W14x257	3.27	0.38	0.38	0.38
W14x283	3.57	0.38	0.38	0.38
W14x311	3.88	0.38	0.38	0.38
W14x342	4.21	0.38	0.38	0.38
W14x370	4.51	0.38	0.38	0.38
W14x398	4.80	0.38	0.38	0.38
W14x426	5.09	0.38	0.38	0.38
W14x455	5.38	0.38	0.38	0.38
W14x500	5.82	0.38	0.38	0.38
W14x550	6.30	0.38	0.38	0.38
W14x605	6.80	0.38	0.38	0.38
W16x26	0.55	0.55	0.89	1.23
W16x31	0.65	0.50	0.82	1.13
W16x36	0.69	0.49	0.79	1.10
W16x40	0.76	0.46	0.75	1.04
W16x45	0.85	0.43	0.71	0.98
W16x50	0.94	0.41	0.66	0.92
W16x67	1.07	0.38	0.61	0.85
W16x77	1.07	0.38	0.61	0.85
W16x89	1.22	0.38	0.56	0.78
W16x100	1.56	0.38	0.47	0.66
W18x35	0.66	0.50	0.81	1.13
W18x40	0.76	0.46	0.75	1.04
W18x46	0.86	0.43	0.70	0.97
W18x50	0.87	0.43	0.70	0.96
W18x55	0.95	0.41	0.66	0.91
W18x60	1.03	0.39	0.63	0.87
W18x65	1.11	0.38	0.60	0.83
W18x71	1.21	0.38	0.57	0.78
W18x76	1.11	0.38	0.60	0.83
W18x88	1.24	0.38	0.56	0.77
W18x97	1.39	0.38	0.51	0.71
W18x106	1.52	0.38	0.48	0.67
W18x119	1.68	0.38	0.45	0.62
W21x44	0.73	0.47	0.77	1.07
W21x50	0.83	0.44	0.72	0.99
W21x57	0.93	0.41	0.67	0.93
W21x62	0.94	0.41	0.66	0.92
W21x68	1.03	0.39	0.63	0.87
W21x83	1.24	0.38	0.56	0.77

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Member	W/D	Unrestrained Beam Rating		
		1 Hr	1.5 Hr	2 Hr
W21x93	1.38	0.38	0.52	0.72
W21x101	1.29	0.38	0.54	0.75
W21x111	1.41	0.38	0.51	0.71
W21x122	1.54	0.38	0.48	0.66
W21x132	1.66	0.38	0.45	0.63
W21x147	1.83	0.38	0.42	0.58
W24x55	0.82	0.44	0.72	1.00
W24x62	0.92	0.41	0.67	0.93
W24x68	0.93	0.41	0.67	0.93
W24x76	1.02	0.39	0.63	0.88
W24x84	1.13	0.38	0.59	0.82
W24x94	1.26	0.38	0.55	0.76
W24x104	1.22	0.38	0.56	0.78
W24x117	1.36	0.38	0.52	0.72
W24x131	1.52	0.38	0.48	0.67
W24x146	1.68	0.38	0.45	0.62
W24x162	1.85	0.38	0.42	0.58
W27x84	1.02	0.39	0.63	0.88
W27x94	1.13	0.38	0.59	0.82
W27x102	1.23	0.38	0.56	0.77
W27x114	1.36	0.38	0.52	0.72
W27x146	1.53	0.38	0.48	0.67
W27x161	1.68	0.38	0.45	0.62
W27x178	1.85	0.38	0.42	0.58
W30x99	1.10	0.38	0.60	0.83
W30x108	1.20	0.38	0.57	0.79
W30x116	1.28	0.38	0.54	0.75
W30x124	1.37	0.38	0.52	0.72
W30x132	1.46	0.38	0.50	0.69
W30x173	1.66	0.38	0.45	0.63
W30x191	1.82	0.38	0.42	0.59
W30x211	2.00	0.38	0.39	0.55
W33x118	1.19	0.38	0.57	0.79
W33x130	1.31	0.38	0.54	0.74
W33x141	1.41	0.38	0.51	0.71
W33x152	1.51	0.38	0.49	0.67
W33x201	1.78	0.38	0.43	0.60

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, 2010, page 10. 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.