

**Southwest Fireproofing Type 5 GP, 5 MD, 7 GP and 7 HD**

**Design Y725 - Column**

Minimum Thickness, in., Required on Column When Flange Tip Thickness is Reduced by one-half\*

<b>Member</b>	<b>W/D</b>	<b>1 Hr</b>	<b>1.5 Hr</b>	<b>2 Hr</b>	<b>3 Hr</b>	<b>4 Hr</b>
W4x13	0.73	0.799	1.510	1.954	2.931	3.553
W5x16	0.54	0.990	1.402	1.814	2.721	3.546
W5x19	0.64	0.900	1.390	1.799	2.699	3.435
W6x9	0.33	0.875	1.250	1.375	2.063	3.188
W6x12	0.44	1.214	1.721	2.227	3.340	4.352
W6x16	0.57	0.750	1.063	1.375	2.063	2.688
W6x20	0.56	0.954	1.352	1.749	2.624	3.419
W6x26	0.68	0.858	1.621	2.098	3.147	3.814
W8x10	0.32	1.128	1.611	2.095	3.142	4.109
W8x13	0.41	1.303	1.846	2.389	3.584	4.670
W8x15	0.47	1.137	1.611	2.084	3.127	4.074
W8x18	0.49	1.091	1.545	1.999	2.999	3.908
W8x21	0.57	0.750	1.063	1.375	2.063	2.688
W8x24	0.58	0.993	1.534	1.985	2.978	3.790
W8x28	0.68	0.858	1.621	2.098	3.147	3.814
W8x31	0.65	0.886	1.369	1.772	2.657	3.382
W8x35	0.73	0.799	1.510	1.954	2.931	3.553
W8x40	0.83	0.563	1.063	1.375	2.063	2.500
W8x48	0.98	0.794	1.390	2.184	3.772	4.963
W8x58	1.17	0.665	1.164	1.829	3.159	4.157
W8x67	1.34	0.581	1.016	1.597	2.758	3.629
W10x12	0.34	1.572	2.227	2.881	4.322	5.632
W10x15	0.42	1.272	1.802	2.333	3.499	4.559
W10x17	0.48	1.113	1.577	2.041	3.062	3.989
W10x19	0.53	1.008	1.428	1.848	2.773	3.613
W10x22	0.51	1.048	1.484	1.921	2.881	3.755
W10x26	0.60	0.960	1.483	1.919	2.879	3.664
W10x30	0.69	0.846	1.598	2.067	3.101	3.759
W10x33	0.65	0.886	1.369	1.772	2.657	3.382
W10x39	0.76	0.768	1.450	1.877	2.816	3.413
W10x46	0.87	0.894	1.565	2.460	4.248	5.590
W10x49	0.83	0.563	1.063	1.375	2.063	2.500
W10x54	0.91	0.855	1.496	2.351	4.062	5.344
W10x60	1.00	0.778	1.362	2.140	3.696	4.863
W10x68	1.13	0.689	1.205	1.894	3.271	4.304
W10x77	1.26	0.618	1.081	1.698	2.933	3.860
W10x88	1.43	0.544	0.952	1.496	2.585	3.401
W10x100	1.60	0.486	0.851	1.337	2.310	3.040
W10x112	1.78	0.437	0.765	1.202	2.076	2.732
W12x14	0.36	1.484	2.103	2.721	4.082	5.319
W12x16	0.41	1.303	1.846	2.389	3.584	4.670
W12x19	0.48	1.113	1.577	2.041	3.062	3.989
W12x22	0.55	0.972	1.376	1.781	2.672	3.482
W12x26	0.52	1.028	1.456	1.884	2.826	3.682
W12x30	0.60	0.960	1.483	1.919	2.879	3.664

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W12x35	0.69	0.846	1.598	2.067	3.101	3.759
W12x40	0.72	0.811	1.531	1.981	2.972	3.602
W12x45	0.81	0.720	1.361	1.761	2.642	3.202
W12x50	0.89	0.874	1.530	2.404	4.153	5.464
W12x53	0.84	0.926	1.621	2.547	4.400	5.790
W12x54	0.84	0.926	1.621	2.547	4.400	5.790
W12x58	0.91	0.855	1.496	2.351	4.062	5.344
W12x65	0.91	0.855	1.496	2.351	4.062	5.344
W12x72	1.01	0.770	1.348	2.119	3.659	4.815
W12x79	1.09	0.714	1.249	1.963	3.391	4.462
W12x87	1.20	0.648	1.135	1.783	3.080	4.053
W12x96	1.32	0.589	1.032	1.621	2.800	3.684
W12x106	1.44	0.540	0.946	1.486	2.567	3.377
W12x120	1.61	0.483	0.846	1.329	2.296	3.021
W12x136	1.82	0.428	0.748	1.176	2.031	2.672
W12x152	2.01	0.387	0.677	1.065	1.839	2.420
W12x170	2.22	0.351	0.613	0.964	1.665	2.191
W12x190	2.46	0.316	0.554	0.870	1.502	1.977
W12x210	2.69	0.250	0.438	0.688	1.188	1.563
W12x230	2.92	0.250	0.438	0.688	1.188	1.563
W12x262	3.15	0.250	0.438	0.688	1.188	1.563
W12x279	3.43	0.250	0.438	0.688	1.188	1.563
W12x305	3.70	0.250	0.438	0.688	1.188	1.563
W12x336	4.01	0.250	0.438	0.688	1.188	1.563
W14x22	0.47	1.137	1.611	2.084	3.127	4.074
W14x26	0.55	0.972	1.376	1.781	2.672	3.482
W14x30	0.55	0.972	1.376	1.781	2.672	3.482
W14x34	0.63	0.914	1.412	1.828	2.742	3.490
W14x38	0.70	0.834	1.575	2.038	3.057	3.705
W14x43	0.73	0.799	1.510	1.954	2.931	3.553
W14x48	0.82	0.712	1.344	1.740	2.610	3.163
W14x53	0.90	0.865	1.513	2.378	4.107	5.404
W14x61	0.91	0.855	1.496	2.351	4.062	5.344
W14x68	1.01	0.770	1.348	2.119	3.659	4.815
W14x74	1.09	0.714	1.249	1.963	3.391	4.462
W14x82	1.21	0.643	1.125	1.768	3.055	4.019
W14x90	1.06	0.734	1.285	2.019	3.487	4.588
W14x99	1.15	0.677	1.184	1.861	3.214	4.229
W14x109	1.26	0.618	1.081	1.698	2.933	3.860
W14x120	1.39	0.560	0.980	1.539	2.659	3.499
W14x132	1.52	0.512	0.896	1.408	2.432	3.200
W14x145	1.61	0.483	0.846	1.329	2.296	3.021
W14x159	1.75	0.445	0.778	1.223	2.112	2.779
W14x176	1.93	0.403	0.706	1.109	1.915	2.520
W14x193	2.09	0.372	0.652	1.024	1.768	2.327

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W14x211	2.28	0.341	0.597	0.939	1.621	2.133
W14x233	2.50	0.250	0.438	0.688	1.188	1.563
W14x257	2.72	0.250	0.438	0.688	1.188	1.563
W14x283	2.97	0.250	0.438	0.688	1.188	1.563
W14x311	3.23	0.250	0.438	0.688	1.188	1.563
W14x342	3.51	0.250	0.438	0.688	1.188	1.563
W14x370	3.76	0.250	0.438	0.688	1.188	1.563
W14x398	4.00	0.250	0.438	0.688	1.188	1.563
W14x426	4.24	0.250	0.438	0.688	1.188	1.563
W14x455	4.48	0.250	0.438	0.688	1.188	1.563
W14x500	4.86	0.250	0.438	0.688	1.188	1.563
W14x550	5.25	0.250	0.438	0.688	1.188	1.563
W14x605	5.71	0.250	0.438	0.688	1.188	1.563
W16x26	0.49	1.091	1.545	1.999	2.999	3.908
W16x31	0.58	0.993	1.534	1.985	2.978	3.790
W16x36	0.61	0.944	1.459	1.888	2.832	3.604
W16x40	0.67	0.688	1.063	1.375	2.063	2.625
W16x45	0.76	0.768	1.450	1.877	2.816	3.413
W16x50	0.83	0.563	1.063	1.375	2.063	2.500
W16x67	0.92	0.846	1.480	2.326	4.017	5.286
W16x77	1.05	0.741	1.297	2.038	3.520	4.632
W16x89	1.20	0.648	1.135	1.783	3.080	4.053
W16x100	1.34	0.581	1.016	1.597	2.758	3.629
W18x35	0.59	0.976	1.508	1.952	2.928	3.726
W18x40	0.68	0.858	1.621	2.098	3.147	3.814
W18x46	0.78	0.748	1.413	1.829	2.743	3.325
W18x50	0.77	0.758	1.432	1.853	2.779	3.369
W18x55	0.84	0.926	1.621	2.547	4.400	5.790
W18x60	0.91	0.855	1.496	2.351	4.062	5.344
W18x65	0.98	0.794	1.390	2.184	3.772	4.963
W18x71	1.07	0.727	1.273	2.000	3.454	4.545
W18x76	0.95	0.819	1.433	2.252	3.891	5.119
W18x88	1.07	0.727	1.273	2.000	3.454	4.545
W18x97	1.20	0.648	1.135	1.783	3.080	4.053
W18x106	1.30	0.599	1.047	1.646	2.843	3.741
W18x119	1.46	0.533	0.933	1.466	2.532	3.331
W21x44	0.66	0.872	1.348	1.745	2.617	3.331
W21x50	0.75	0.778	1.470	1.902	2.853	3.458
W21x57	0.85	0.915	1.602	2.517	4.348	5.722
W21x62	0.84	0.926	1.621	2.547	4.400	5.790
W21x68	0.91	0.855	1.496	2.351	4.062	5.344
W21x83	1.10	0.707	1.238	1.945	3.360	4.421
W21x93	1.23	0.633	1.107	1.740	3.005	3.954
W21x101	1.11	0.701	1.227	1.928	3.330	4.381
W21x111	1.21	0.643	1.125	1.768	3.055	4.019

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<b>Member</b>	<b>W/D</b>	<b>1 Hr</b>	<b>1.5 Hr</b>	<b>2 Hr</b>	<b>3 Hr</b>	<b>4 Hr</b>
W21x122	1.33	0.585	1.024	1.609	2.779	3.657
W21x132	1.43	0.544	0.952	1.496	2.585	3.401
W21x147	1.59	0.489	0.856	1.346	2.325	3.059
W24x55	0.74	0.789	1.490	1.928	2.892	3.505
W24x62	0.83	0.563	1.063	1.375	2.063	2.500
W24x68	0.82	0.712	1.344	1.740	2.610	3.163
W24x76	0.92	0.846	1.480	2.326	4.017	5.286
W24x84	1.01	0.770	1.348	2.119	3.659	4.815
W24x94	1.12	0.695	1.216	1.911	3.300	4.342
W24x104	1.06	0.734	1.285	2.019	3.487	4.588
W24x117	1.19	0.654	1.144	1.798	3.106	4.087
W24x131	1.32	0.589	1.032	1.621	2.800	3.684
W24x146	1.46	0.533	0.933	1.466	2.532	3.331
W24x162	1.61	0.483	0.846	1.329	2.296	3.021
W27x84	0.91	0.855	1.496	2.351	4.062	5.344
W27x94	1.01	0.770	1.348	2.119	3.659	4.815
W27x102	1.09	0.714	1.249	1.963	3.391	4.462
W27x114	1.21	0.643	1.125	1.768	3.055	4.019
W27x146	1.33	0.585	1.024	1.609	2.779	3.657
W27x161	1.47	0.529	0.926	1.456	2.514	3.308
W27x178	1.61	0.483	0.846	1.329	2.296	3.021
W30x99	0.99	0.786	1.375	2.161	3.733	4.912
W30x108	1.07	0.727	1.273	2.000	3.454	4.545
W30x116	1.15	0.677	1.184	1.861	3.214	4.229
W30x124	1.23	0.633	1.107	1.740	3.005	3.954
W30x132	1.30	0.599	1.047	1.646	2.843	3.741
W30x173	1.44	0.540	0.946	1.486	2.567	3.377
W30x191	1.59	0.489	0.856	1.346	2.325	3.059
W30x211	1.74	0.447	0.783	1.230	2.124	2.795
W33x118	1.07	0.727	1.273	2.000	3.454	4.545
W33x130	1.17	0.665	1.164	1.829	3.159	4.157
W33x141	1.27	0.613	1.072	1.685	2.910	3.829
W33x152	1.35	0.576	1.009	1.585	2.738	3.602
W33x201	1.56	0.499	0.873	1.372	2.369	3.117

These column protection thicknesses have been calculated for the convenience of users, in accordance with the proprietary equation in Design Y725 and the generic equation detailed in the UL Fire Resistance Directory - Volume 1, 2007, 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.

\*Minimum thickness shall not be less than 1/4-in., regardless of value in table.