

BXUV.D925 Unprotected Floor/Ceiling - Normal Weight Concrete, Roof Insulation Over Concrete (Item 10) Unrestrained Beam Rating GCP Applied Technologies Inc. - Types MK-6/HY, MK-6/GF, MK-6 GF Extended Set, MK-10 HB, MK-6s, Z-106, Z-106/G, Z-106/HY, RG, MK-1000/HB, MK-1000/HB Extended Set											
FLUTED DECKING					CELLULAR DECKING						
1 hr	1.5 hr	2 hr	3 hr	4 hr	Member		1 hr	1.5 hr	2 hr	3 hr	4 hr
					Size x Wt.	W/D					
11/16	15/16	1 1/8	2	N/A	W4 x 13	0.670	13/16	1 3/16	1 1/2	2 1/16	N/A
11/16	15/16	1 1/8	2	N/A	W5 x 16	0.664	13/16	1 1/4	1 1/2	2 1/16	N/A
5/8	7/8	1 1/16	1 13/16	N/A	W5 x 19	0.776	3/4	1 1/8	1 3/8	1 7/8	N/A
13/16	1 3/16	1 7/16	2 1/2	N/A	W6 x 9	0.398	1	1 9/16	1 7/8	2 5/8	N/A
3/4	1 1/16	1 5/16	2 1/4	N/A	W6 x 12	0.526	7/8	1 3/8	1 11/16	2 5/16	N/A
3/4	1 1/16	1 5/16	2 1/4	N/A	W6 x 15	0.521	7/8	1 3/8	1 11/16	2 5/16	N/A
5/8	15/16	1 1/8	1 15/16	N/A	W6 x 16	0.684	13/16	1 3/16	1 1/2	2 1/16	N/A
5/8	15/16	1 1/8	2	N/A	W6 x 20	0.678	13/16	1 3/16	1 1/2	2 1/16	N/A
9/16	13/16	1	1 3/4	N/A	W6 x 25	0.839	11/16	1 1/16	1 5/16	1 13/16	N/A
7/8	1 3/16	1 1/2	2 9/16	N/A	W8 x 10	0.375	1 1/16	1 9/16	1 15/16	2 11/16	N/A
3/4	1 1/8	1 5/16	2 5/16	N/A	W8 x 13	0.483	15/16	1 7/16	1 3/4	2 3/8	N/A
3/4	1 1/16	1 1/4	2 3/16	N/A	W8 x 15	0.551	7/8	1 5/16	1 5/8	2 1/4	N/A
11/16	1	1 1/4	2 1/8	N/A	W8 x 18	0.583	7/8	1 5/16	1 5/8	2 3/16	N/A
11/16	15/16	1 1/8	2	N/A	W8 x 21	0.675	13/16	1 3/16	1 1/2	2 1/16	N/A
5/8	15/16	1 1/8	1 15/16	N/A	W8 x 24	0.704	3/4	1 3/16	1 7/16	2	N/A
9/16	13/16	1	1 3/4	N/A	W8 x 28*	0.819	11/16	1 1/16	1 5/16	1 13/16	N/A
5/8	7/8	1 1/16	1 13/16	N/A	W8 x 31	0.803	3/4	1 1/8	1 3/8	1 7/8	N/A
9/16	13/16	1	1 11/16	N/A	W8 x 35	0.907	11/16	1 1/16	1 1/4	1 3/4	N/A
1/2	3/4	7/8	1 9/16	N/A	W8 x 40	1.030	5/8	15/16	1 3/16	1 5/8	N/A
1/2	11/16	13/16	1 3/8	N/A	W8 x 48	1.210	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 1/4	N/A	W8 x 58	1.440	1/2	3/4	15/16	1 5/16	N/A
3/8	9/16	11/16	1 1/8	N/A	W8 x 67	1.650	7/16	11/16	7/8	1 3/16	N/A
13/16	1 3/16	1 7/16	2 9/16	N/A	W10 x 12	0.392	1	1 9/16	1 15/16	2 5/8	N/A
3/4	1 1/8	1 5/16	2 5/16	N/A	W10 x 15	0.484	15/16	1 7/16	1 3/4	2 3/8	N/A
3/4	1 1/16	1 1/4	2 3/16	N/A	W10 x 17	0.543	7/8	1 3/8	1 11/16	2 5/16	N/A
11/16	1	1 3/16	2 1/16	N/A	W10 x 19	0.607	13/16	1 1/4	1 9/16	2 3/16	N/A
11/16	1	1 3/16	2 1/16	N/A	W10 x 22	0.606	13/16	1 5/16	1 9/16	2 3/16	N/A
5/8	15/16	1 1/8	1 15/16	N/A	W10 x 26	0.708	3/4	1 3/16	1 7/16	2	N/A
5/8	7/8	1 1/16	1 13/16	N/A	W10 x 30	0.809	3/4	1 1/8	1 3/8	1 7/8	N/A
5/8	7/8	1 1/16	1 13/16	N/A	W10 x 33	0.786	3/4	1 1/8	1 3/8	1 7/8	N/A
9/16	13/16	15/16	1 5/8	N/A	W10 x 39	0.929	11/16	1	1 1/4	1 11/16	N/A
1/2	3/4	7/8	1 1/2	N/A	W10 x 45	1.060	5/8	15/16	1 1/8	1 9/16	N/A
1/2	3/4	15/16	1 9/16	N/A	W10 x 49	1.010	5/8	15/16	1 3/16	1 5/8	N/A
1/2	11/16	7/8	1 1/2	N/A	W10 x 54	1.110	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	13/16	1 3/8	N/A	W10 x 60	1.220	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W10 x 68	1.380	1/2	13/16	1	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W10 x 77	1.540	1/2	3/4	7/8	1 1/4	N/A
3/8	1/2	5/8	1 1/16	N/A	W10 x 88	1.740	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	9/16	1	N/A	W10 x 100	1.970	7/16	5/8	3/4	1 1/16	N/A
3/8	7/16	9/16	15/16	N/A	W10 x 112	2.170	3/8	9/16	11/16	15/16	N/A
13/16	1 3/16	1 7/16	2 1/2	N/A	W12 x 14	0.405	1	1 9/16	1 7/8	2 9/16	N/A
13/16	1 1/8	1 3/8	2 3/8	N/A	W12 x 16	0.457	15/16	1 7/16	1 13/16	2 7/16	N/A
3/4	1 1/16	1 1/4	2 3/16	N/A	W12 x 19	0.540	7/8	1 3/8	1 11/16	2 5/16	N/A
11/16	1	1 3/16	2 1/16	N/A	W12 x 22	0.623	13/16	1 1/4	1 9/16	2 1/8	N/A
11/16	1	1 3/16	2 1/16	N/A	W12 x 26	0.612	13/16	1 1/4	1 9/16	2 1/8	N/A
5/8	15/16	1 1/8	1 15/16	N/A	W12 x 30	0.699	13/16	1 3/16	1 7/16	2	N/A
5/8	7/8	1 1/16	1 13/16	N/A	W12 x 35	0.810	3/4	1 1/8	1 3/8	1 7/8	N/A
9/16	13/16	1	1 3/4	N/A	W12 x 40	0.860	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	3/4	15/16	1 5/8	N/A	W12 x 45	0.974	5/8	1	1 3/16	1 11/16	N/A
1/2	3/4	7/8	1 1/2	N/A	W12 x 50	1.060	5/8	15/16	1 1/8	1 9/16	N/A
1/2	3/4	15/16	1 9/16	N/A	W12 x 53	1.020	5/8	15/16	1 3/16	1 5/8	N/A
1/2	11/16	7/8	1 1/2	N/A	W12 x 58	1.100	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	W12 x 65	1.110	5/8	15/16	1 1/8	1 9/16	N/A
7/16	11/16	13/16	1 3/8	N/A	W12 x 72	1.230	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W12 x 79	1.340	9/16	13/16	1	1 3/8	N/A
7/16	9/16	11/16	1 1/4	N/A	W12 x 87	1.470	1/2	3/4	15/16	1 1/4	N/A
3/8	9/16	11/16	1 1/8	N/A	W12 x 96	1.610	1/2	11/16	7/8	1 3/16	N/A
3/8	1/2	5/8	1 1/16	N/A	W12 x 106	1.770	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	9/16	1	N/A	W12 x 120	1.990	7/16	5/8	3/4	1	N/A
3/8	7/16	9/16	15/16	N/A	W12 x 136	2.230	3/8	9/16	11/16	15/16	N/A
3/8	7/16	1/2	7/8	N/A	W12 x 152	2.450	3/8	1/2	5/8	7/8	N/A

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FLUTED DECKING						CELLULAR DECKING					
1 hr	1.5 hr	2 hr	3 hr	4 hr	Member		1 hr	1.5 hr	2 hr	3 hr	4 hr
					Size x Wt.	W/D					
3/8	3/8	7/16	3/4	N/A	W12 x 170	2.720	3/8	1/2	9/16	13/16	N/A
3/8	3/8	7/16	3/4	N/A	W12 x 190	3.000	3/8	7/16	9/16	3/4	N/A
3/8	3/8	3/8	11/16	N/A	W12 x 210	3.270	3/8	7/16	1/2	11/16	N/A
3/8	3/8	3/8	5/8	N/A	W12 x 230	3.550	3/8	3/8	1/2	5/8	N/A
3/8	3/8	3/8	9/16	N/A	W12 x 252	3.840	3/8	3/8	7/16	5/8	N/A
3/8	3/8	3/8	9/16	N/A	W12 x 279	4.190	3/8	3/8	7/16	9/16	N/A
3/8	3/8	3/8	1/2	N/A	W12 x 305	4.490	3/8	3/8	3/8	9/16	N/A
3/8	3/8	3/8	1/2	N/A	W12 x 336	4.850	3/8	3/8	3/8	1/2	N/A
3/4	1 1/16	1 5/16	2 1/4	N/A	W14 x 22	0.534	7/8	1 3/8	1 11/16	2 5/16	N/A
11/16	1	1 3/16	2 1/16	N/A	W14 x 26	0.628	13/16	1 1/4	1 9/16	2 1/8	N/A
11/16	15/16	1 3/16	2	N/A	W14 x 30	0.644	13/16	1 1/4	1 1/2	2 1/8	N/A
5/8	7/8	1 1/8	1 7/8	N/A	W14 x 34	0.725	3/4	1 3/16	1 7/16	2	N/A
5/8	7/8	1 1/16	1 13/16	N/A	W14 x 38	0.809	3/4	1 1/8	1 3/8	1 7/8	N/A
9/16	13/16	1	1 11/16	N/A	W14 x 43	0.874	11/16	1 1/16	1 5/16	1 3/4	N/A
9/16	3/4	15/16	1 5/8	N/A	W14 x 48	0.970	5/8	1	1 3/16	1 11/16	N/A
1/2	3/4	7/8	1 1/2	N/A	W14 x 53	1.060	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	W14 x 61	1.100	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	13/16	1 3/8	N/A	W14 x 68	1.220	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W14 x 74	1.320	9/16	13/16	1	1 3/8	N/A
7/16	9/16	3/4	1 1/4	N/A	W14 x 82	1.450	1/2	3/4	15/16	1 5/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W14 x 90	1.310	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 1/4	N/A	W14 x 99	1.430	1/2	3/4	15/16	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W14 x 109	1.570	1/2	3/4	7/8	1 3/16	N/A
3/8	1/2	5/8	1 1/8	N/A	W14 x 120	1.710	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	5/8	1	N/A	W14 x 132	1.890	7/16	5/8	3/4	1 1/16	N/A
3/8	1/2	9/16	1	N/A	W14 x 145	1.990	7/16	5/8	3/4	1	N/A
3/8	7/16	9/16	15/16	N/A	W14 x 159	2.160	3/8	9/16	11/16	15/16	N/A
3/8	7/16	1/2	7/8	N/A	W14 x 176	2.380	3/8	9/16	5/8	7/8	N/A
3/8	3/8	1/2	13/16	N/A	W14 x 193	2.600	3/8	1/2	5/8	13/16	N/A
3/8	3/8	7/16	3/4	N/A	W14 x 211	2.810	3/8	1/2	9/16	13/16	N/A
3/8	3/8	7/16	11/16	N/A	W14 x 233	3.080	3/8	7/16	9/16	3/4	N/A
3/8	3/8	3/8	11/16	N/A	W14 x 257	3.360	3/8	7/16	1/2	11/16	N/A
3/8	3/8	3/8	5/8	N/A	W14 x 283	3.660	3/8	3/8	7/16	5/8	N/A
3/8	3/8	3/8	9/16	N/A	W14 x 311	3.980	3/8	3/8	7/16	9/16	N/A
3/8	3/8	3/8	9/16	N/A	W14 x 342	4.320	3/8	3/8	7/16	9/16	N/A
3/8	3/8	3/8	1/2	N/A	W14 x 370	4.630	3/8	3/8	3/8	1/2	N/A
3/8	3/8	3/8	1/2	N/A	W14 x 398	4.930	3/8	3/8	3/8	1/2	N/A
3/8	3/8	3/8	7/16	N/A	W14 x 426	5.210	3/8	3/8	3/8	1/2	N/A
3/8	3/8	3/8	7/16	N/A	W14 x 455	5.530	3/8	3/8	3/8	7/16	N/A
3/8	3/8	3/8	7/16	N/A	W14 x 500	5.950	3/8	3/8	3/8	7/16	N/A
3/8	3/8	3/8	3/8	N/A	W14 x 550	6.430	3/8	3/8	3/8	3/8	N/A
3/8	3/8	3/8	3/8	N/A	W14 x 605	6.960	3/8	3/8	3/8	3/8	N/A
3/8	3/8	3/8	3/8	N/A	W14 x 665	7.490	3/8	3/8	3/8	3/8	N/A
3/8	3/8	3/8	3/8	N/A	W14 x 730	8.080	3/8	3/8	3/8	3/8	N/A
3/4	1	1 1/4	2 3/16	N/A	W16 x 26	0.558	7/8	1 5/16	1 5/8	2 1/4	N/A
11/16	15/16	1 3/16	2	N/A	W16 x 31	0.661	13/16	1 1/4	1 1/2	2 1/16	N/A
5/8	15/16	1 1/8	1 15/16	N/A	W16 x 36	0.702	3/4	1 3/16	1 7/16	2	N/A
5/8	7/8	1 1/16	1 13/16	N/A	W16 x 40	0.780	3/4	1 1/8	1 3/8	1 7/8	N/A
9/16	13/16	1	1 3/4	N/A	W16 x 45	0.870	11/16	1 1/16	1 5/16	1 3/4	N/A
9/16	3/4	15/16	1 5/8	N/A	W16 x 50	0.962	5/8	1	1 1/4	1 11/16	N/A
1/2	11/16	7/8	1 1/2	N/A	W16 x 57	1.090	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	W16 x 67	1.090	5/8	15/16	1 1/8	1 9/16	N/A
7/16	5/8	13/16	1 3/8	N/A	W16 x 77	1.250	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 1/4	N/A	W16 x 89	1.430	1/2	3/4	15/16	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W16 x 100	1.590	1/2	3/4	7/8	1 3/16	N/A
11/16	15/16	1 1/8	2	N/A	W18 x 35	0.672	13/16	1 3/16	1 1/2	2 1/16	N/A
5/8	7/8	1 1/16	1 7/8	N/A	W18 x 40	0.768	3/4	1 1/8	1 3/8	1 15/16	N/A
9/16	13/16	1	1 11/16	N/A	W18 x 46	0.876	11/16	1 1/16	1 5/16	1 3/4	N/A
9/16	13/16	1	1 11/16	N/A	W18 x 50	0.880	11/16	1 1/16	1 5/16	1 3/4	N/A
9/16	3/4	15/16	1 5/8	N/A	W18 x 55	0.963	5/8	1	1 1/4	1 11/16	N/A
1/2	3/4	7/8	1 9/16	N/A	W18 x 60	1.040	5/8	15/16	1 3/16	1 5/8	N/A

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Unrestrained Beam Rating											
GCP Applied Technologies Inc. - Types MK-6/HY, MK-6/GF, MK-6 GF Extended Set, MK-10 HB, MK-6s, Z-106, Z-106/G, Z-106/HY, RG, MK-1000/HB, MK-1000/HB Extended Set											
FLUTED DECKING						CELLULAR DECKING					
1 hr	1.5 hr	2 hr	3 hr	4 hr	Member		1 hr	1.5 hr	2 hr	3 hr	4 hr
					Size x Wt.	W/D					
1/2	11/16	7/8	1 7/16	N/A	W18 x 65	1.130	5/8	7/8	1 1/8	1 1/2	N/A
1/2	11/16	13/16	1 3/8	N/A	W18 x 71	1.220	9/16	7/8	1 1/16	1 7/16	N/A
1/2	11/16	7/8	1 7/16	N/A	W18 x 76	1.130	5/8	7/8	1 1/8	1 1/2	N/A
7/16	5/8	13/16	1 3/8	N/A	W18 x 86	1.270	9/16	13/16	1	1 7/16	N/A
7/16	5/8	3/4	1 1/4	N/A	W18 x 97	1.420	1/2	3/4	15/16	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W18 x 106	1.550	1/2	3/4	7/8	1 1/4	N/A
3/8	1/2	5/8	1 1/8	N/A	W18 x 119	1.720	7/16	11/16	13/16	1 1/8	N/A
5/8	7/8	1 1/16	1 7/8	N/A	W21 x 44	0.746	3/4	1 1/8	1 7/16	1 15/16	N/A
9/16	13/16	1	1 3/4	N/A	W21 x 50	0.838	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	3/4	15/16	1 5/8	N/A	W21 x 57	0.952	11/16	1	1 1/4	1 11/16	N/A
9/16	3/4	15/16	1 5/8	N/A	W21 x 62	0.952	11/16	1	1 1/4	1 11/16	N/A
1/2	3/4	7/8	1 9/16	N/A	W21 x 68	1.040	5/8	15/16	1 3/16	1 5/8	N/A
1/2	11/16	7/8	1 1/2	N/A	W21 x 73	1.110	5/8	15/16	1 1/8	1 9/16	N/A
7/16	5/8	13/16	1 3/8	N/A	W21 x 83	1.260	9/16	13/16	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 1/4	N/A	W21 x 93	1.400	1/2	13/16	15/16	1 5/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W21 x 101	1.300	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 1/4	N/A	W21 x 111	1.430	1/2	3/4	15/16	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W21 x 122	1.570	1/2	3/4	7/8	1 3/16	N/A
3/8	9/16	5/8	1 1/8	N/A	W21 x 132	1.680	7/16	11/16	7/8	1 3/16	N/A
3/8	1/2	5/8	1 1/16	N/A	W21 x 147	1.870	7/16	5/8	13/16	1 1/16	N/A
9/16	13/16	1	1 3/4	N/A	W24 x 55	0.828	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	13/16	15/16	1 5/8	N/A	W24 x 62	0.934	11/16	1	1 1/4	1 11/16	N/A
9/16	3/4	15/16	1 5/8	N/A	W24 x 68	0.942	11/16	1	1 1/4	1 11/16	N/A
1/2	3/4	7/8	1 9/16	N/A	W24 x 76	1.050	5/8	15/16	1 3/16	1 9/16	N/A
1/2	11/16	13/16	1 7/16	N/A	W24 x 84	1.150	9/16	7/8	1 1/8	1 1/2	N/A
7/16	5/8	13/16	1 3/8	N/A	W24 x 94	1.280	9/16	13/16	1	1 3/8	N/A
7/16	11/16	13/16	1 3/8	N/A	W24 x 104	1.240	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W24 x 117	1.380	1/2	13/16	1	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W24 x 131	1.540	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	5/8	1 1/8	N/A	W24 x 146	1.700	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	5/8	1 1/16	N/A	W24 x 162	1.880	7/16	5/8	13/16	1 1/16	N/A
1/2	3/4	7/8	1 9/16	N/A	W27 x 84	1.030	5/8	15/16	1 3/16	1 5/8	N/A
1/2	11/16	13/16	1 7/16	N/A	W27 x 94	1.150	9/16	7/8	1 1/8	1 1/2	N/A
7/16	11/16	13/16	1 3/8	N/A	W27 x 102	1.240	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 1/4	N/A	W27 x 114	1.390	1/2	13/16	15/16	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W27 x 129	1.560	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	11/16	1 3/16	N/A	W27 x 146	1.550	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	5/8	1 1/8	N/A	W27 x 161	1.700	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	5/8	1 1/16	N/A	W27 x 178	1.870	7/16	5/8	13/16	1 1/16	N/A
1/2	3/4	15/16	1 9/16	N/A	W30 x 90	1.020	5/8	15/16	1 3/16	1 5/8	N/A
1/2	11/16	7/8	1 1/2	N/A	W30 x 99	1.120	5/8	15/16	1 1/8	1 1/2	N/A
1/2	11/16	13/16	1 3/8	N/A	W30 x 108	1.210	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W30 x 116	1.300	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 1/4	N/A	W30 x 124	1.390	1/2	13/16	15/16	1 5/16	N/A
7/16	9/16	11/16	1 1/4	N/A	W30 x 132	1.470	1/2	3/4	15/16	1 1/4	N/A
3/8	9/16	11/16	1 1/8	N/A	W30 x 173	1.660	7/16	11/16	7/8	1 3/16	N/A
3/8	1/2	5/8	1 1/16	N/A	W30 x 191	1.850	7/16	5/8	13/16	1 1/16	N/A
3/8	1/2	9/16	1	N/A	W30 x 211	2.010	3/8	5/8	3/4	1	N/A
1/2	11/16	13/16	1 3/8	N/A	W33 x 118	1.210	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	3/4	1 5/16	N/A	W33 x 130	1.320	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 1/4	N/A	W33 x 141	1.430	1/2	3/4	15/16	1 5/16	N/A
3/8	9/16	11/16	1 3/16	N/A	W33 x 152	1.530	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	5/8	1 1/8	N/A	W33 x 169	1.700	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	5/8	1 1/16	N/A	W33 x 201	1.790	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	9/16	1	N/A	W33 x 221	1.970	7/16	5/8	3/4	1 1/16	N/A
3/8	7/16	9/16	15/16	N/A	W33 x 241	2.130	3/8	9/16	11/16	1	N/A
7/16	5/8	13/16	1 3/8	N/A	W36 x 135	1.290	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 1/4	N/A	W36 x 150	1.430	1/2	3/4	15/16	1 5/16	N/A
7/16	9/16	11/16	1 3/16	N/A	W36 x 160	1.510	1/2	3/4	15/16	1 1/4	N/A
3/8	9/16	11/16	1 3/16	N/A	W36 x 170	1.600	1/2	11/16	7/8	1 3/16	N/A
3/8	1/2	5/8	1 1/8	N/A	W36 x 182	1.720	7/16	11/16	13/16	1 1/8	N/A

BXUV.D925											
Unprotected Floor/Ceiling - Normal Weight Concrete, Roof Insulation Over Concrete (Item 10)											
Unrestrained Beam Rating											
GCP Applied Technologies Inc. - Types MK-6/HY, MK-6/GF, MK-6 GF Extended Set, MK-10 HB, MK-6s, Z-106, Z-106/G, Z-106/HY, RG, MK-1000/HB, MK-1000/HB Extended Set											
FLUTED DECKING						CELLULAR DECKING					
1 hr	1.5 hr	2 hr	3 hr	4 hr	Member		1 hr	1.5 hr	2 hr	3 hr	4 hr
					Size x Wt.	W/D					
3/8	1/2	5/8	1 1/16	N/A	W36 x 194	1.810	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	9/16	1	N/A	W36 x 210	1.960	7/16	5/8	3/4	1 1/16	N/A
3/8	1/2	9/16	1	N/A	W36 x 230	1.950	7/16	5/8	3/4	1 1/16	N/A
3/8	7/16	9/16	15/16	N/A	W36 x 245	2.080	3/8	5/8	3/4	1	N/A
3/8	7/16	1/2	7/8	N/A	W36 x 256	2.370	3/8	9/16	11/16	7/8	N/A
3/8	7/16	9/16	15/16	N/A	W36 x 260	2.180	3/8	9/16	11/16	15/16	N/A
3/8	7/16	1/2	7/8	N/A	W36 x 280	2.350	3/8	9/16	11/16	7/8	N/A
3/8	3/8	1/2	13/16	N/A	W36 x 300	2.500	3/8	1/2	5/8	7/8	N/A
7/8	1 1/4	1 1/2	2 9/16	N/A	Other	0.37	1 1/16	1 9/16	1 15/16	2 11/16	N/A
7/8	1 3/16	1 1/2	2 9/16	N/A	Other	0.38	1	1 9/16	1 15/16	2 5/8	N/A
13/16	1 3/16	1 7/16	2 9/16	N/A	Other	0.39	1	1 9/16	1 15/16	2 5/8	N/A
13/16	1 3/16	1 7/16	2 1/2	N/A	Other	0.40	1	1 9/16	1 7/8	2 5/8	N/A
13/16	1 3/16	1 7/16	2 1/2	N/A	Other	0.41	1	1 1/2	1 7/8	2 9/16	N/A
13/16	1 3/16	1 7/16	2 7/16	N/A	Other	0.42	1	1 1/2	1 7/8	2 9/16	N/A
13/16	1 1/8	1 7/16	2 7/16	N/A	Other	0.43	1	1 1/2	1 13/16	2 1/2	N/A
13/16	1 1/8	1 3/8	2 7/16	N/A	Other	0.44	1	1 1/2	1 13/16	2 1/2	N/A
13/16	1 1/8	1 3/8	2 3/8	N/A	Other	0.45	15/16	1 7/16	1 13/16	2 1/2	N/A
13/16	1 1/8	1 3/8	2 3/8	N/A	Other	0.46	15/16	1 7/16	1 13/16	2 7/16	N/A
3/4	1 1/8	1 3/8	2 3/8	N/A	Other	0.47	15/16	1 7/16	1 3/4	2 7/16	N/A
3/4	1 1/8	1 3/8	2 5/16	N/A	Other	0.48	15/16	1 7/16	1 3/4	2 7/16	N/A
3/4	1 1/16	1 5/16	2 5/16	N/A	Other	0.49	15/16	1 7/16	1 3/4	2 3/8	N/A
3/4	1 1/16	1 5/16	2 5/16	N/A	Other	0.50	15/16	1 3/8	1 3/4	2 3/8	N/A
3/4	1 1/16	1 5/16	2 1/4	N/A	Other	0.51	15/16	1 3/8	1 11/16	2 3/8	N/A
3/4	1 1/16	1 5/16	2 1/4	N/A	Other	0.52	7/8	1 3/8	1 11/16	2 5/16	N/A
3/4	1 1/16	1 5/16	2 1/4	N/A	Other	0.53	7/8	1 3/8	1 11/16	2 5/16	N/A
3/4	1 1/16	1 1/4	2 3/16	N/A	Other	0.54	7/8	1 3/8	1 11/16	2 5/16	N/A
3/4	1 1/16	1 1/4	2 3/16	N/A	Other	0.55	7/8	1 5/16	1 5/8	2 1/4	N/A
3/4	1	1 1/4	2 3/16	N/A	Other	0.56	7/8	1 5/16	1 5/8	2 1/4	N/A
11/16	1	1 1/4	2 1/8	N/A	Other	0.57	7/8	1 5/16	1 5/8	2 1/4	N/A
11/16	1	1 1/4	2 1/8	N/A	Other	0.58	7/8	1 5/16	1 5/8	2 3/16	N/A
11/16	1	1 1/4	2 1/8	N/A	Other	0.59	7/8	1 5/16	1 5/8	2 3/16	N/A
11/16	1	1 3/16	2 1/8	N/A	Other	0.60	7/8	1 5/16	1 9/16	2 3/16	N/A
11/16	1	1 3/16	2 1/16	N/A	Other	0.61	13/16	1 1/4	1 9/16	2 3/16	N/A
11/16	1	1 3/16	2 1/16	N/A	Other	0.62	13/16	1 1/4	1 9/16	2 1/8	N/A
11/16	15/16	1 3/16	2 1/16	N/A	Other	0.63	13/16	1 1/4	1 9/16	2 1/8	N/A
11/16	15/16	1 3/16	2 1/16	N/A	Other	0.64	13/16	1 1/4	1 9/16	2 1/8	N/A
11/16	15/16	1 3/16	2	N/A	Other	0.65	13/16	1 1/4	1 1/2	2 1/16	N/A
11/16	15/16	1 3/16	2	N/A	Other	0.66	13/16	1 1/4	1 1/2	2 1/16	N/A
11/16	15/16	1 1/8	2	N/A	Other	0.67	13/16	1 3/16	1 1/2	2 1/16	N/A
5/8	15/16	1 1/8	2	N/A	Other	0.68	13/16	1 3/16	1 1/2	2 1/16	N/A
5/8	15/16	1 1/8	1 15/16	N/A	Other	0.69	13/16	1 3/16	1 1/2	2	N/A
5/8	15/16	1 1/8	1 15/16	N/A	Other	0.70	13/16	1 3/16	1 7/16	2	N/A
5/8	7/8	1 1/8	1 15/16	N/A	Other	0.71	3/4	1 3/16	1 7/16	2	N/A
5/8	7/8	1 1/8	1 15/16	N/A	Other	0.72	3/4	1 3/16	1 7/16	2	N/A
5/8	7/8	1 1/8	1 7/8	N/A	Other	0.73	3/4	1 3/16	1 7/16	1 15/16	N/A
5/8	7/8	1 1/16	1 7/8	N/A	Other	0.74	3/4	1 3/16	1 7/16	1 15/16	N/A
5/8	7/8	1 1/16	1 7/8	N/A	Other	0.75	3/4	1 1/8	1 7/16	1 15/16	N/A
5/8	7/8	1 1/16	1 7/8	N/A	Other	0.76	3/4	1 1/8	1 3/8	1 15/16	N/A
5/8	7/8	1 1/16	1 7/8	N/A	Other	0.77	3/4	1 1/8	1 3/8	1 15/16	N/A
5/8	7/8	1 1/16	1 13/16	N/A	Other	0.78	3/4	1 1/8	1 3/8	1 7/8	N/A
5/8	7/8	1 1/16	1 13/16	N/A	Other	0.79	3/4	1 1/8	1 3/8	1 7/8	N/A
5/8	7/8	1 1/16	1 13/16	N/A	Other	0.80	3/4	1 1/8	1 3/8	1 7/8	N/A
5/8	7/8	1 1/16	1 13/16	N/A	Other	0.81	3/4	1 1/8	1 3/8	1 7/8	N/A
9/16	13/16	1	1 3/4	N/A	Other	0.82	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	13/16	1	1 3/4	N/A	Other	0.83	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	13/16	1	1 3/4	N/A	Other	0.84	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	13/16	1	1 3/4	N/A	Other	0.85	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	13/16	1	1 3/4	N/A	Other	0.86	11/16	1 1/16	1 5/16	1 13/16	N/A
9/16	13/16	1	1 3/4	N/A	Other	0.87	11/16	1 1/16	1 5/16	1 3/4	N/A
9/16	13/16	1	1 11/16	N/A	Other	0.88	11/16	1 1/16	1 5/16	1 3/4	N/A
9/16	13/16	1	1 11/16	N/A	Other	0.89	11/16	1 1/16	1 1/4	1 3/4	N/A

BXUV.D925 Unprotected Floor/Ceiling - Normal Weight Concrete, Roof Insulation Over Concrete (Item 10) Unrestrained Beam Rating GCP Applied Technologies Inc. - Types MK-6/HY, MK-6/GF, MK-6 GF Extended Set, MK-10 HB, MK-6s, Z-106, Z-106/G, Z-106/HY, RG, MK-1000/HB, MK-1000/HB Extended Set											
FLUTED DECKING					CELLULAR DECKING						
1 hr	1.5 hr	2 hr	3 hr	4 hr	Member		1 hr	1.5 hr	2 hr	3 hr	4 hr
					Size x Wt.	W/D					
9/16	13/16	1	1 11/16	N/A	Other	0.90	11/16	1 1/16	1 1/4	1 3/4	N/A
9/16	13/16	1	1 11/16	N/A	Other	0.91	11/16	1	1 1/4	1 3/4	N/A
9/16	13/16	15/16	1 11/16	N/A	Other	0.92	11/16	1	1 1/4	1 3/4	N/A
9/16	13/16	15/16	1 5/8	N/A	Other	0.93	11/16	1	1 1/4	1 11/16	N/A
9/16	3/4	15/16	1 5/8	N/A	Other	0.94	11/16	1	1 1/4	1 11/16	N/A
9/16	3/4	15/16	1 5/8	N/A	Other	0.95	11/16	1	1 1/4	1 11/16	N/A
9/16	3/4	15/16	1 5/8	N/A	Other	0.96	11/16	1	1 1/4	1 11/16	N/A
9/16	3/4	15/16	1 5/8	N/A	Other	0.97	5/8	1	1 3/16	1 11/16	N/A
9/16	3/4	15/16	1 5/8	N/A	Other	0.98	5/8	1	1 3/16	1 11/16	N/A
9/16	3/4	15/16	1 9/16	N/A	Other	0.99	5/8	1	1 3/16	1 5/8	N/A
1/2	3/4	15/16	1 9/16	N/A	Other	1.00	5/8	1	1 3/16	1 5/8	N/A
1/2	3/4	15/16	1 9/16	N/A	Other	1.01	5/8	15/16	1 3/16	1 5/8	N/A
1/2	3/4	15/16	1 9/16	N/A	Other	1.02	5/8	15/16	1 3/16	1 5/8	N/A
1/2	3/4	7/8	1 9/16	N/A	Other	1.03	5/8	15/16	1 3/16	1 5/8	N/A
1/2	3/4	7/8	1 9/16	N/A	Other	1.04	5/8	15/16	1 3/16	1 5/8	N/A
1/2	3/4	7/8	1 9/16	N/A	Other	1.05	5/8	15/16	1 3/16	1 9/16	N/A
1/2	3/4	7/8	1 1/2	N/A	Other	1.06	5/8	15/16	1 1/8	1 9/16	N/A
1/2	3/4	7/8	1 1/2	N/A	Other	1.07	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	Other	1.08	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	Other	1.09	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	Other	1.10	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	Other	1.11	5/8	15/16	1 1/8	1 9/16	N/A
1/2	11/16	7/8	1 1/2	N/A	Other	1.12	5/8	15/16	1 1/8	1 1/2	N/A
1/2	11/16	7/8	1 7/16	N/A	Other	1.13	5/8	7/8	1 1/8	1 1/2	N/A
1/2	11/16	7/8	1 7/16	N/A	Other	1.14	9/16	7/8	1 1/8	1 1/2	N/A
1/2	11/16	13/16	1 7/16	N/A	Other	1.15	9/16	7/8	1 1/8	1 1/2	N/A
1/2	11/16	13/16	1 7/16	N/A	Other	1.16	9/16	7/8	1 1/16	1 1/2	N/A
1/2	11/16	13/16	1 7/16	N/A	Other	1.17	9/16	7/8	1 1/16	1 1/2	N/A
1/2	11/16	13/16	1 7/16	N/A	Other	1.18	9/16	7/8	1 1/16	1 1/2	N/A
1/2	11/16	13/16	1 7/16	N/A	Other	1.19	9/16	7/8	1 1/16	1 7/16	N/A
1/2	11/16	13/16	1 7/16	N/A	Other	1.20	9/16	7/8	1 1/16	1 7/16	N/A
1/2	11/16	13/16	1 3/8	N/A	Other	1.21	9/16	7/8	1 1/16	1 7/16	N/A
1/2	11/16	13/16	1 3/8	N/A	Other	1.22	9/16	7/8	1 1/16	1 7/16	N/A
7/16	11/16	13/16	1 3/8	N/A	Other	1.23	9/16	7/8	1 1/16	1 7/16	N/A
7/16	11/16	13/16	1 3/8	N/A	Other	1.24	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	13/16	1 3/8	N/A	Other	1.25	9/16	7/8	1 1/16	1 7/16	N/A
7/16	5/8	13/16	1 3/8	N/A	Other	1.26	9/16	13/16	1 1/16	1 7/16	N/A
7/16	5/8	13/16	1 3/8	N/A	Other	1.27	9/16	13/16	1	1 7/16	N/A
7/16	5/8	13/16	1 3/8	N/A	Other	1.28	9/16	13/16	1	1 3/8	N/A
7/16	5/8	13/16	1 3/8	N/A	Other	1.29	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.30	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.31	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.32	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.33	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.34	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.35	9/16	13/16	1	1 3/8	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.36	1/2	13/16	1	1 5/16	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.37	1/2	13/16	1	1 5/16	N/A
7/16	5/8	3/4	1 5/16	N/A	Other	1.38	1/2	13/16	1	1 5/16	N/A
7/16	5/8	3/4	1 1/4	N/A	Other	1.39	1/2	13/16	15/16	1 5/16	N/A
7/16	5/8	3/4	1 1/4	N/A	Other	1.40	1/2	13/16	15/16	1 5/16	N/A
7/16	5/8	3/4	1 1/4	N/A	Other	1.41	1/2	13/16	15/16	1 5/16	N/A
7/16	5/8	3/4	1 1/4	N/A	Other	1.42	1/2	3/4	15/16	1 5/16	N/A
7/16	5/8	3/4	1 1/4	N/A	Other	1.43	1/2	3/4	15/16	1 5/16	N/A
7/16	5/8	3/4	1 1/4	N/A	Other	1.44	1/2	3/4	15/16	1 5/16	N/A
7/16	9/16	3/4	1 1/4	N/A	Other	1.45	1/2	3/4	15/16	1 5/16	N/A
7/16	9/16	3/4	1 1/4	N/A	Other	1.46	1/2	3/4	15/16	1 1/4	N/A
7/16	9/16	11/16	1 1/4	N/A	Other	1.47	1/2	3/4	15/16	1 1/4	N/A
7/16	9/16	11/16	1 1/4	N/A	Other	1.48	1/2	3/4	15/16	1 1/4	N/A
7/16	9/16	11/16	1 1/4	N/A	Other	1.49	1/2	3/4	15/16	1 1/4	N/A
7/16	9/16	11/16	1 3/16	N/A	Other	1.50	1/2	3/4	15/16	1 1/4	N/A

BXUV.D925											
Unprotected Floor/Ceiling - Normal Weight Concrete, Roof Insulation Over Concrete (Item 10)											
Unrestrained Beam Rating											
GCP Applied Technologies Inc. - Types MK-6/HY, MK-6/GF, MK-6 GF Extended Set, MK-10 HB, MK-6s, Z-106, Z-106/G, Z-106/HY, RG, MK-1000/HB, MK-1000/HB Extended Set											
FLUTED DECKING						CELLULAR DECKING					
1 hr	1.5 hr	2 hr	3 hr	4 hr	Member		1 hr	1.5 hr	2 hr	3 hr	4 hr
					Size x Wt.	W/D					
7/16	9/16	11/16	1 3/16	N/A	Other	1.51	1/2	3/4	15/16	1 1/4	N/A
7/16	9/16	11/16	1 3/16	N/A	Other	1.52	1/2	3/4	15/16	1 1/4	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.53	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.54	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.55	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.56	1/2	3/4	7/8	1 1/4	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.57	1/2	3/4	7/8	1 3/16	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.58	1/2	3/4	7/8	1 3/16	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.59	1/2	3/4	7/8	1 3/16	N/A
3/8	9/16	11/16	1 3/16	N/A	Other	1.60	1/2	11/16	7/8	1 3/16	N/A
3/8	9/16	11/16	1 1/8	N/A	Other	1.61	1/2	11/16	7/8	1 3/16	N/A
3/8	9/16	11/16	1 1/8	N/A	Other	1.62	1/2	11/16	7/8	1 3/16	N/A
3/8	9/16	11/16	1 1/8	N/A	Other	1.63	7/16	11/16	7/8	1 3/16	N/A
3/8	9/16	11/16	1 1/8	N/A	Other	1.64	7/16	11/16	7/8	1 3/16	N/A
3/8	9/16	11/16	1 1/8	N/A	Other	1.65	7/16	11/16	7/8	1 3/16	N/A
3/8	9/16	11/16	1 1/8	N/A	Other	1.66	7/16	11/16	7/8	1 3/16	N/A
3/8	9/16	11/16	1 1/8	N/A	Other	1.67	7/16	11/16	7/8	1 3/16	N/A
3/8	9/16	5/8	1 1/8	N/A	Other	1.68	7/16	11/16	7/8	1 3/16	N/A
3/8	9/16	5/8	1 1/8	N/A	Other	1.69	7/16	11/16	7/8	1 1/8	N/A
3/8	9/16	5/8	1 1/8	N/A	Other	1.70	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	5/8	1 1/16	N/A	Other	1.75	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	5/8	1 1/16	N/A	Other	1.80	7/16	11/16	13/16	1 1/8	N/A
3/8	1/2	5/8	1 1/16	N/A	Other	1.85	7/16	5/8	13/16	1 1/16	N/A
3/8	1/2	5/8	1	N/A	Other	1.90	7/16	5/8	3/4	1 1/16	N/A
3/8	1/2	9/16	1	N/A	Other	1.95	7/16	5/8	3/4	1 1/16	N/A
3/8	1/2	9/16	1	N/A	Other	2.00	7/16	5/8	3/4	1	N/A
3/8	7/16	1/2	7/8	N/A	Other	2.25	3/8	9/16	11/16	15/16	N/A
3/8	3/8	1/2	13/16	N/A	Other	2.50	3/8	1/2	5/8	7/8	N/A
3/8	3/8	7/16	3/4	N/A	Other	2.75	3/8	1/2	9/16	13/16	N/A
3/8	3/8	7/16	3/4	N/A	Other	3.00	3/8	7/16	9/16	3/4	N/A
3/8	3/8	3/8	11/16	N/A	Other	3.25	3/8	7/16	1/2	11/16	N/A
3/8	3/8	3/8	5/8	N/A	Other	3.50	3/8	3/8	1/2	11/16	N/A
3/8	3/8	3/8	5/8	N/A	Other	3.75	3/8	3/8	7/16	5/8	N/A
3/8	3/8	3/8	9/16	N/A	Other	4.00	3/8	3/8	7/16	9/16	N/A
3/8	3/8	3/8	9/16	N/A	Other	4.25	3/8	3/8	7/16	9/16	N/A
3/8	3/8	3/8	1/2	N/A	Other	4.50	3/8	3/8	3/8	9/16	N/A
3/8	3/8	3/8	1/2	N/A	Other	4.75	3/8	3/8	3/8	1/2	N/A
3/8	3/8	3/8	1/2	N/A	Other	5.00	3/8	3/8	3/8	1/2	N/A
3/8	3/8	3/8	7/16	N/A	Other	5.25	3/8	3/8	3/8	1/2	N/A
3/8	3/8	3/8	7/16	N/A	Other	5.50	3/8	3/8	3/8	7/16	N/A
3/8	3/8	3/8	7/16	N/A	Other	5.75	3/8	3/8	3/8	7/16	N/A
3/8	3/8	3/8	7/16	N/A	Other	6.00	3/8	3/8	3/8	7/16	N/A
3/8	3/8	3/8	3/8	N/A	Other	6.25	3/8	3/8	3/8	7/16	N/A
3/8	3/8	3/8	3/8	N/A	Other	6.50	3/8	3/8	3/8	3/8	N/A
3/8	3/8	3/8	3/8	N/A	Other	6.75	3/8	3/8	3/8	3/8	N/A
3/8	3/8	3/8	3/8	N/A	Other	7.00	3/8	3/8	3/8	3/8	N/A
3/8	3/8	3/8	3/8	N/A	Other	8.00	3/8	3/8	3/8	3/8	N/A

Note: This table is intended to be used in conjunction with the specified UL Design D925. All required components specified in that UL Design shall remain a required component to achieve the hourly ratings. Only the version of UL Design D925 as shown on UL.com is considered current.

*The 1, 1.5, and 2 hour fluted deck thickness for W8x28 were derived from beam substitution of UL Design N852 into D925. All rules of beam substitution from the BXUV Guide shall be considered.