

<b>BXUV.X794</b> <b>Tube Columns</b> <b>GCP APPLIED TECHNOLOGIES INC — Types Z-106, Z-106/G, Z-106/HY</b>							
Nominal Size	Wall Thickness	A/P	1 hr	1.5 hr	2 hr	3 hr	4 hr
2 x 2	1/4	0.225	13/16	1 5/16	1 13/16	2 13/16	3 13/16
2 x 2	5/16	0.264	11/16	1 1/8	1 9/16	2 7/16	3 1/4
2.5 x 2.5	5/16	0.273	11/16	1 1/8	1 1/2	2 3/8	3 3/16
3 x 3	3/16	0.176	NA	NA	NA	NA	NA
3 x 3	1/4	0.229	13/16	1 5/16	1 13/16	2 13/16	3 3/4
3 x 3	5/16	0.280	11/16	1 1/16	1 1/2	2 5/16	3 1/8
3 x 3	3/8	0.328	9/16	15/16	1 1/4	1 15/16	2 5/8
3 x 3	1/2	0.417	7/16	3/4	1	1 9/16	2 1/16
3.5 x 3.5	3/16	0.177	NA	NA	NA	NA	NA
3.5 x 3.5	1/4	0.232	13/16	1 5/16	1 13/16	2 3/4	3 3/4
3.5 x 3.5	5/16	0.285	11/16	1 1/16	1 7/16	2 1/4	3 1/16
3.5 x 3.5	3/8	0.335	9/16	15/16	1 1/4	1 15/16	2 9/16
4 x 3	3/16	0.177	NA	NA	NA	NA	NA
4 x 3	1/4	0.232	13/16	1 5/16	1 13/16	2 3/4	3 3/4
4 x 4	3/16	0.179	NA	NA	NA	NA	NA
4 x 4	1/4	0.234	13/16	1 5/16	1 3/4	2 3/4	3 11/16
4 x 4	5/16	0.288	11/16	1 1/16	1 7/16	2 1/4	3
4 x 4	3/8	0.340	9/16	7/8	1 1/4	1 7/8	2 9/16
4 x 4	1/2	0.438	7/16	11/16	15/16	1 1/2	2
4.5 x 4.5	3/16	0.180	1 1/16	1 11/16	2 5/16	3 9/16	NA
4.5 x 4.5	1/4	0.236	13/16	1 1/4	1 3/4	2 11/16	3 11/16
4.5 x 4.5	5/16	0.291	5/8	1 1/16	1 7/16	2 3/16	3
4.5 x 4.5	3/8	0.344	9/16	7/8	1 3/16	1 7/8	2 1/2
4.5 x 4.5	1/2	0.444	7/16	11/16	15/16	1 7/16	1 15/16
5 x 3	3/16	0.179	NA	NA	NA	NA	NA
5 x 3	1/4	0.234	13/16	1 5/16	1 3/4	2 3/4	3 11/16
5 x 3	5/16	0.288	11/16	1 1/16	1 7/16	2 1/4	3
5 x 3	3/8	0.340	9/16	7/8	1 1/4	1 7/8	2 9/16
5 x 3	1/2	0.438	7/16	11/16	15/16	1 1/2	2
5 x 4	3/16	0.180	1 1/16	1 11/16	2 5/16	3 9/16	NA
5 x 4	1/4	0.236	13/16	1 1/4	1 3/4	2 11/16	3 11/16
5 x 4	5/16	0.291	5/8	1 1/16	1 7/16	2 3/16	3
5 x 4	3/8	0.344	9/16	7/8	1 3/16	1 7/8	2 1/2
5 x 5	3/16	0.180	1 1/16	1 11/16	2 5/16	3 9/16	NA
5 x 5	1/4	0.238	13/16	1 1/4	1 3/4	2 11/16	3 5/8
5 x 5	5/16	0.293	5/8	1 1/16	1 7/16	2 3/16	2 15/16
5 x 5	3/8	0.347	9/16	7/8	1 3/16	1 7/8	2 1/2
5 x 5	1/2	0.450	7/16	11/16	15/16	1 7/16	1 15/16
5.5 x 5.5	3/16	0.181	1	1 5/8	2 1/4	3 1/2	NA
5.5 x 5.5	1/4	0.239	13/16	1 1/4	1 3/4	2 11/16	3 5/8

Nominal Size	Wall Thickness	A/P	1 hr	1.5 hr	2 hr	3 hr	4 hr
5.5 x 5.5	5/16	0.295	5/8	1	1 7/16	2 3/16	2 15/16
5.5 x 5.5	3/8	0.349	9/16	7/8	1 3/16	1 13/16	2 1/2
6 x 3	3/16	0.180	1 1/16	1 11/16	2 5/16	3 9/16	NA
6 x 3	1/4	0.236	13/16	1 1/4	1 3/4	2 11/16	3 11/16
6 x 3	5/16	0.291	5/8	1 1/16	1 7/16	2 3/16	3
6 x 3	3/8	0.344	9/16	7/8	1 3/16	1 7/8	2 1/2
6 x 3	1/2	0.444	7/16	11/16	15/16	1 7/16	1 15/16
6 x 4	3/16	0.180	1 1/16	1 11/16	2 5/16	3 9/16	NA
6 x 4	1/4	0.238	13/16	1 1/4	1 3/4	2 11/16	3 5/8
6 x 4	5/16	0.293	5/8	1 1/16	1 7/16	2 3/16	2 15/16
6 x 4	3/8	0.347	9/16	7/8	1 3/16	1 7/8	2 1/2
6 x 4	1/2	0.450	7/16	11/16	15/16	1 7/16	1 15/16
6 x 6	3/16	0.182	1	1 5/8	2 1/4	3 1/2	NA
6 x 6	1/4	0.240	13/16	1 1/4	1 3/4	2 11/16	3 5/8
6 x 6	5/16	0.296	5/8	1	1 3/8	2 3/16	2 15/16
6 x 6	3/8	0.352	9/16	7/8	1 3/16	1 13/16	2 7/16
6 x 6	1/2	0.458	7/16	11/16	15/16	1 7/16	1 7/8
6 x 6	5/8	0.560	3/8	9/16	3/4	1 3/16	1 9/16
7 x 5	3/16	0.182	1	1 5/8	2 1/4	3 1/2	NA
7 x 5	1/4	0.240	13/16	1 1/4	1 3/4	2 11/16	3 5/8
7 x 5	5/16	0.296	5/8	1	1 3/8	2 3/16	2 15/16
7 x 5	3/8	0.352	9/16	7/8	1 3/16	1 13/16	2 7/16
7 x 5	1/2	0.458	7/16	11/16	15/16	1 7/16	1 7/8
7 x 7	3/16	0.182	1	1 5/8	2 1/4	3 1/2	NA
7 x 7	1/4	0.241	3/4	1 1/4	1 11/16	2 5/8	3 9/16
7 x 7	5/16	0.299	5/8	1	1 3/8	2 1/8	2 7/8
7 x 7	3/8	0.355	9/16	7/8	1 3/16	1 13/16	2 7/16
7 x 7	1/2	0.464	7/16	11/16	15/16	1 3/8	1 7/8
7 x 7	5/8	0.569	3/8	9/16	3/4	1 1/8	1 9/16
8 x 3	3/16	0.181	1	1 5/8	2 1/4	3 1/2	NA
8 x 3	1/4	0.239	13/16	1 1/4	1 3/4	2 11/16	3 5/8
8 x 3	5/16	0.295	5/8	1	1 7/16	2 3/16	2 15/16
8 x 3	3/8	0.349	9/16	7/8	1 3/16	1 13/16	2 1/2
8 x 4	3/16	0.182	1	1 5/8	2 1/4	3 1/2	NA
8 x 4	1/4	0.240	13/16	1 1/4	1 3/4	2 11/16	3 5/8
8 x 4	5/16	0.296	5/8	1	1 3/8	2 3/16	2 15/16
8 x 4	3/8	0.352	9/16	7/8	1 3/16	1 13/16	2 7/16
8 x 4	1/2	0.458	7/16	11/16	15/16	1 7/16	1 7/8
8 x 6	3/16	0.182	1	1 5/8	2 1/4	3 1/2	NA
8 x 6	1/4	0.241	3/4	1 1/4	1 11/16	2 5/8	3 9/16
8 x 6	5/16	0.299	5/8	1	1 3/8	2 1/8	2 7/8
8 x 6	3/8	0.355	9/16	7/8	1 3/16	1 13/16	2 7/16
8 x 6	1/2	0.464	7/16	11/16	15/16	1 3/8	1 7/8

Nominal Size	Wall Thickness	A/P	1 hr	1.5 hr	2 hr	3 hr	4 hr
8 x 8	3/16	0.183	1	1 5/8	2 1/4	3 1/2	NA
8 x 8	1/4	0.242	3/4	1 1/4	1 11/16	2 5/8	3 9/16
8 x 8	5/16	0.300	5/8	1	1 3/8	2 1/8	2 7/8
8 x 8	3/8	0.357	9/16	7/8	1 3/16	1 13/16	2 7/16
8 x 8	1/2	0.469	7/16	11/16	7/8	1 3/8	1 7/8
8 x 8	5/8	0.576	3/8	9/16	3/4	1 1/8	1 1/2
10 x 4	3/16	0.182	1	1 5/8	2 1/4	3 1/2	NA
10 x 4	1/4	0.241	3/4	1 1/4	1 11/16	2 5/8	3 9/16
10 x 4	5/16	0.299	5/8	1	1 3/8	2 1/8	2 7/8
10 x 4	3/8	0.355	9/16	7/8	1 3/16	1 13/16	2 7/16
10 x 4	1/2	0.464	7/16	11/16	15/16	1 3/8	1 7/8
10 x 6	3/16	0.183	1	1 5/8	2 1/4	3 1/2	NA
10 x 6	1/4	0.242	3/4	1 1/4	1 11/16	2 5/8	3 9/16
10 x 6	5/16	0.300	5/8	1	1 3/8	2 1/8	2 7/8
10 x 6	3/8	0.357	9/16	7/8	1 3/16	1 13/16	2 7/16
10 x 6	1/2	0.469	7/16	11/16	7/8	1 3/8	1 7/8
10 x 8	3/16	0.184	1	1 5/8	2 1/4	3 7/16	NA
10 x 8	1/4	0.243	3/4	1 1/4	1 11/16	2 5/8	3 9/16
10 x 8	5/16	0.302	5/8	1	1 3/8	2 1/8	2 7/8
10 x 8	3/8	0.359	9/16	7/8	1 3/16	1 13/16	2 7/16
10 x 8	1/2	0.472	7/16	5/8	7/8	1 3/8	1 7/8
10 x 10	3/16	0.184	1	1 5/8	2 1/4	3 7/16	NA
10 x 10	1/4	0.244	3/4	1 1/4	1 11/16	2 5/8	3 9/16
10 x 10	5/16	0.303	5/8	1	1 3/8	2 1/8	2 7/8
10 x 10	3/8	0.361	9/16	7/8	1 3/16	1 13/16	2 7/16
10 x 10	1/2	0.475	7/16	5/8	7/8	1 3/8	1 13/16
10 x 10	5/8	0.586	5/16	9/16	3/4	1 1/8	1 1/2
12 x 4	3/16	0.183	1	1 5/8	2 1/4	3 1/2	NA
12 x 4	1/4	0.242	3/4	1 1/4	1 11/16	2 5/8	3 9/16
12 x 4	5/16	0.300	5/8	1	1 3/8	2 1/8	2 7/8
12 x 4	3/8	0.357	9/16	7/8	1 3/16	1 13/16	2 7/16
12 x 4	1/2	0.469	7/16	11/16	7/8	1 3/8	1 7/8
12 x 6	3/16	0.184	1	1 5/8	2 1/4	3 7/16	NA
12 x 6	1/4	0.243	3/4	1 1/4	1 11/16	2 5/8	3 9/16
12 x 6	5/16	0.302	5/8	1	1 3/8	2 1/8	2 7/8
12 x 6	3/8	0.359	9/16	7/8	1 3/16	1 13/16	2 7/16
12 x 6	1/2	0.472	7/16	5/8	7/8	1 3/8	1 7/8
12 x 8	1/4	0.244	3/4	1 1/4	1 11/16	2 5/8	3 9/16
12 x 8	5/16	0.303	5/8	1	1 3/8	2 1/8	2 7/8
12 x 8	3/8	0.361	9/16	7/8	1 3/16	1 13/16	2 7/16
12 x 8	1/2	0.475	7/16	5/8	7/8	1 3/8	1 13/16
12 x 8	5/8	0.586	5/16	9/16	3/4	1 1/8	1 1/2
12 x 12	1/4	0.245	3/4	1 1/4	1 11/16	2 5/8	3 9/16

Nominal Size	Wall Thickness	A/P	1 hr	1.5 hr	2 hr	3 hr	4 hr
12 x 12	5/16	0.304	5/8	1	1 3/8	2 1/8	2 7/8
12 x 12	3/8	0.363	1/2	13/16	1 1/8	1 3/4	2 3/8
12 x 12	1/2	0.479	7/16	5/8	7/8	1 3/8	1 13/16
12 x 12	5/8	0.592	5/16	1/2	11/16	1 1/8	1 1/2
14 x 4	1/4	0.243	3/4	1 1/4	1 11/16	2 5/8	3 9/16
14 x 4	5/16	0.302	5/8	1	1 3/8	2 1/8	2 7/8
14 x 4	3/8	0.359	9/16	7/8	1 3/16	1 13/16	2 7/16
14 x 4	1/2	0.472	7/16	5/8	7/8	1 3/8	1 7/8
14 x 6	1/4	0.244	3/4	1 1/4	1 11/16	2 5/8	3 9/16
14 x 6	5/16	0.303	5/8	1	1 3/8	2 1/8	2 7/8
14 x 6	3/8	0.361	9/16	7/8	1 3/16	1 13/16	2 7/16
14 x 6	1/2	0.475	7/16	5/8	7/8	1 3/8	1 13/16
14 x 10	5/16	0.304	5/8	1	1 3/8	2 1/8	2 7/8
14 x 10	3/8	0.363	1/2	13/16	1 1/8	1 3/4	2 3/8
14 x 10	1/2	0.479	7/16	5/8	7/8	1 3/8	1 13/16
14 x 14	5/16	0.306	5/8	1	1 3/8	2 1/8	2 13/16
14 x 14	3/8	0.365	1/2	13/16	1 1/8	1 3/4	2 3/8
14 x 14	1/2	0.482	3/8	5/8	7/8	1 5/16	1 13/16
14 x 14	5/8	0.597	5/16	1/2	11/16	1 1/16	1 7/16
16 x 4	5/16	0.303	5/8	1	1 3/8	2 1/8	2 7/8
16 x 4	3/8	0.361	9/16	7/8	1 3/16	1 13/16	2 7/16
16 x 4	1/2	0.475	7/16	5/8	7/8	1 3/8	1 13/16
16 x 8	5/16	0.304	5/8	1	1 3/8	2 1/8	2 7/8
16 x 8	3/8	0.363	1/2	13/16	1 1/8	1 3/4	2 3/8
16 x 8	1/2	0.479	7/16	5/8	7/8	1 3/8	1 13/16
16 x 12	5/16	0.306	5/8	1	1 3/8	2 1/8	2 13/16
16 x 12	3/8	0.365	1/2	13/16	1 1/8	1 3/4	2 3/8
16 x 12	1/2	0.482	3/8	5/8	7/8	1 5/16	1 13/16
16 x 16	5/16	0.306	5/8	1	1 3/8	2 1/8	2 13/16
16 x 16	3/8	0.366	1/2	13/16	1 1/8	1 3/4	2 3/8
16 x 16	1/2	0.484	3/8	5/8	7/8	1 5/16	1 13/16
16 x 16	5/8	0.601	5/16	1/2	11/16	1 1/16	1 7/16
18 x 6	5/16	0.304	5/8	1	1 3/8	2 1/8	2 7/8
18 x 6	3/8	0.363	1/2	13/16	1 1/8	1 3/4	2 3/8
18 x 6	1/2	0.479	7/16	5/8	7/8	1 3/8	1 13/16
18 x 18	3/8	0.367	1/2	13/16	1 1/8	1 3/4	2 3/8
18 x 18	1/2	0.486	3/8	5/8	7/8	1 5/16	1 13/16
18 x 18	5/8	0.603	5/16	1/2	11/16	1 1/16	1 7/16
20 x 4	5/16	0.304	5/8	1	1 3/8	2 1/8	2 7/8
20 x 4	3/8	0.363	1/2	13/16	1 1/8	1 3/4	2 3/8
20 x 4	1/2	0.479	7/16	5/8	7/8	1 3/8	1 13/16
20 x 8	5/16	0.306	5/8	1	1 3/8	2 1/8	2 13/16
20 x 8	3/8	0.365	1/2	13/16	1 1/8	1 3/4	2 3/8

Nominal Size	Wall Thickness	A/P	1 hr	1.5 hr	2 hr	3 hr	4 hr
20 x 8	1/2	0.482	3/8	5/8	7/8	1 5/16	1 13/16
20 x 12	5/16	0.306	5/8	1	1 3/8	2 1/8	2 13/16
20 x 12	3/8	0.366	1/2	13/16	1 1/8	1 3/4	2 3/8
20 x 12	1/2	0.484	3/8	5/8	7/8	1 5/16	1 13/16
20 x 18	5/16	0.307	5/8	1	1 3/8	2 1/16	2 13/16
20 x 18	3/8	0.368	1/2	13/16	1 1/8	1 3/4	2 3/8
20 x 18	1/2	0.487	3/8	5/8	7/8	1 5/16	1 13/16
20 x 20	3/8	0.368	1/2	13/16	1 1/8	1 3/4	2 3/8
20 x 20	1/2	0.488	3/8	5/8	7/8	1 5/16	1 13/16
20 x 20	5/8	0.605	5/16	1/2	11/16	1 1/16	1 7/16
20 x 20	3/4	0.722	5/16	7/16	5/8	15/16	1 1/4
22 x 20	5/16	0.308	5/8	1	1 3/8	2 1/16	2 13/16
22 x 20	3/8	0.368	1/2	13/16	1 1/8	1 3/4	2 3/8
22 x 20	1/2	0.488	3/8	5/8	7/8	1 5/16	1 13/16
22 x 22	3/4	0.369	1/2	13/16	1 1/8	1 3/4	2 3/8
22 x 22	1/2	0.489	3/8	5/8	7/8	1 5/16	1 13/16
22 x 22	5/8	0.607	5/16	1/2	11/16	1 1/16	1 7/16
24 x 22	5/16	0.308	5/8	1	1 3/8	2 1/16	2 13/16
24 x 22	3/8	0.369	1/2	13/16	1 1/8	1 3/4	2 3/8
24 x 22	1/2	0.489	3/8	5/8	7/8	1 5/16	1 13/16
24 x 24	3/8	0.369	1/2	13/16	1 1/8	1 3/4	2 3/8
24 x 24	1/2	0.490	3/8	5/8	7/8	1 5/16	1 13/16
24 x 24	5/8	0.609	5/16	1/2	11/16	1 1/16	1 7/16
26 x 24	5/16	0.309	5/8	1	1 3/8	2 1/16	2 13/16
26 x 24	3/8	0.369	1/2	13/16	1 1/8	1 3/4	2 3/8
26 x 24	1/2	0.490	3/8	5/8	7/8	1 5/16	1 13/16
26 x 26	5/8	0.610	5/16	1/2	11/16	1 1/16	1 7/16
28 x 24	5/16	0.309	5/8	1	1 3/8	2 1/16	2 13/16
28 x 24	3/8	0.370	1/2	13/16	1 1/8	1 3/4	2 3/8
28 x 24	1/2	0.490	3/8	5/8	7/8	1 5/16	1 13/16
28 x 28	5/8	0.611	5/16	1/2	11/16	1 1/16	1 7/16
30 x 24	5/16	0.309	5/8	1	1 3/8	2 1/16	2 13/16

Nominal Size	Wall Thickness	A/P	1 hr	1.5 hr	2 hr	3 hr	4 hr
30 x 30	3/8	0.370	1/2	13/16	1 1/8	1 3/4	2 3/8
30 x 30	1/2	0.492	3/8	5/8	7/8	1 5/16	1 3/4
30 x 30	5/8	0.612	5/16	1/2	11/16	1 1/16	1 7/16
	Other	0.300	5/8	1	1 3/8	2 1/8	2 7/8
	Other	0.400	1/2	3/4	1 1/16	1 5/8	2 3/16
	Other	0.500	3/8	5/8	7/8	1 5/16	1 3/4
	Other	0.600	5/16	1/2	11/16	1 1/16	1 7/16
	Other	0.700	5/16	7/16	5/8	15/16	1 1/4
	Other	0.800	1/4	3/8	9/16	13/16	1 1/8
	Other	0.900	1/4	3/8	1/2	3/4	1
	Other	1.000	1/4	5/16	7/16	11/16	7/8
	Other	1.100	1/4	5/16	3/8	5/8	13/16
	Other	1.200	1/4	1/4	3/8	9/16	3/4
	Other	1.300	1/4	1/4	3/8	1/2	11/16
	Other	1.400	1/4	1/4	5/16	1/2	5/8
	Other	1.500	1/4	1/4	5/16	7/16	5/8
	Other	1.600	1/4	1/4	5/16	7/16	9/16
	Other	1.700	1/4	1/4	1/4	3/8	9/16
	Other	1.800	1/4	1/4	1/4	3/8	1/2
	Other	1.900	1/4	1/4	1/4	3/8	1/2
	Other	2.000	1/4	1/4	1/4	3/8	7/16

The information contained in these tables are provided for the convenience of our Monokote customers and while we have taken care to be as accurate as possible and update as listings are modified, GCP will not be held responsible for errors or inaccuracies. In case of discrepancy, values from the applicable design listings and rules associated with adjustment of thickness shall govern.

This table is intended to be used in conjunction with the specified UL Design BXUV.X794. All required components specified in that UL Design shall remain a required component to achieve the hourly ratings. Only the version of UL Design BXUV.X794 as shown on UL.com is considered current.