

BXUV.X795 Tube Columns GCP APPLIED TECHNOLOGIES INC — Types Z-146, Z-146 NPP, Z-146PC, Z-146T, Z-156, Z-156PC, Z-156T							
Nominal Size	Wall Thickness	A/P (a)	1 hr	1.5 hr	2 hr	3 hr	4 hr
2 x 2	1/4	0.219	7/8	1 3/8	1 13/16	2 9/16	3 5/16
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	1/4	0.225	13/16	1 5/16	1 13/16	2 9/16	3 5/16
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	1 1/16	1 11/16	2 5/16	3 5/8	NR
3 x 3	1/4	0.229	13/16	1 5/16	1 13/16	2 9/16	3 5/16
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	1 1/16	1 11/16	2 5/16	3 5/8	NR
3.5 x 3.5	1/4	0.232	13/16	1 5/16	1 13/16	2 9/16	3 5/16
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	1	1 7/16	1 13/16	2 9/16	3 5/16
4 x 3	1/4	0.232	13/16	1 5/16	1 13/16	2 9/16	3 5/16
4 x 4	3/16	0.179	1	1 7/16	1 13/16	2 9/16	3 5/16
4 x 4	1/4	0.234	13/16	1 5/16	1 3/4	2 9/16	3 5/16
4 x 4	5/16	0.288	5/8	1 1/16	1 7/16	2 3/16	2 15/16
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 7/16	2
4.5 x 4.5	3/16	0.180	1	1 7/16	1 13/16	2 9/16	3 5/16
4.5 x 4.5	1/4	0.236	13/16	1 1/4	1 3/4	2 9/16	3 5/16
4.5 x 4.5	5/16	0.291	5/8	1 1/16	1 7/16	2 3/16	2 15/16
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	1	1 7/16	1 13/16	2 9/16	3 5/16
5 x 3	1/4	0.234	13/16	1 5/16	1 3/4	2 9/16	3 5/16
5 x 3	5/16	0.288	5/8	1 1/16	1 7/16	2 3/16	2 15/16
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 7/16	2
5 x 4	3/16	0.180	1	1 7/16	1 13/16	2 9/16	3 5/16
5 x 4	1/4	0.236	13/16	1 1/4	1 3/4	2 9/16	3 5/16
5 x 4	5/16	0.291	5/8	1 1/16	1 7/16	2 3/16	2 15/16
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 7/16	1 13/16	2 9/16	3 5/16
5.5 x 5.5	3/16	0.181	1	1 7/16	1 13/16	2 9/16	3 5/16
5 x 5	1/4	0.238	13/16	1 1/4	1 3/4	2 9/16	3 5/16
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

Nominal Size	Wall Thickness	A/P (a)	1 hr	1.5 hr	2 hr	3 hr	4 hr
5.5 x 5.5	1/4	0.239	13/16	1 1/4	1 3/4	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
6 x 3	1/4	0.236	13/16	1 1/4	1 3/4	2 9/16	3 5/16
6 x 3	5/16	0.291	5/8	1 1/16	1 7/16	2 3/16	2 15/16
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 7/16	1 13/16	2 9/16	3 5/16
6 x 4	1/4	0.238	13/16	1 1/4	1 3/4	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
6 x 6	1/4	0.240	13/16	1 1/4	1 3/4	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
7 x 5	1/4	0.240	13/16	1 1/4	1 3/4	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
7 x 7	1/4	0.241	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
8 x 3	1/4	0.239	13/16	1 1/4	1 3/4	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
8 x 4	1/4	0.240	13/16	1 1/4	1 3/4	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
8 x 6	1/4	0.241	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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
8 x 8	3/16	0.183	1	1 7/16	1 13/16	2 9/16	3 5/16

Nominal Size	Wall Thickness	A/P (a)	1 hr	1.5 hr	2 hr	3 hr	4 hr
8 x 8	1/4	0.242	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
10 x 4	1/4	0.241	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
10 x 6	1/4	0.242	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
10 x 8	1/4	0.243	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
10 x 10	1/4	0.244	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
12 x 4	1/4	0.242	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 7/16	1 13/16	2 9/16	3 5/16
12 x 6	1/4	0.243	3/4	1 1/4	1 11/16	2 9/16	3 5/16
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 9/16	3 5/16
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 9/16	3 5/16
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

Nominal Size	Wall Thickness	A/P (a)	1 hr	1.5 hr	2 hr	3 hr	4 hr
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 9/16	3 5/16
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 9/16	3 5/16
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
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

Nominal Size	Wall Thickness	A/P (a)	1 hr	1.5 hr	2 hr	3 hr	4 hr
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	1/4	3/8	9/16	7/8	1 3/16
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	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 (a)	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	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.X795. 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.X795 as shown on UL.com is considered current.