

**Foam Core Sandwich Panels without Fan Beams (Detail N1 or O) Spans for the 2012 IBC
Patio Cover Applications Only**

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure				
		B110	B115	C110	C115	C140
		Allowable Spans (ft)				
Live 10	0.024	15.5' 0'	15' 0'	13.5' 0'	13' 0'	10.5' 0'
Snow 10	0.024	13.5' 0'	13' 0'	12.5' 0'	12' 0'	10' 0'
20	0.024	10.5' 0'	10.5' 0'	10' 0'	9.5' 0'	8' 0'
25	0.024	10.5' 0'	10.5' 0'	10' 0'	9.5' 0'	7.5' 0'
30	0.024	9.5' 0'	9.5' 0'	8.5' 0'	8.5' 0'	7' 0'

Table 4.21

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure				
		B110	B115	C110	C115	C140
		Allowable Spans (ft)				
Live 10	0.024	19' 0'	18' 0'	16' 0'	15.5' 0'	12.5' 0'
Snow 10	0.024	16' 0'	15.5' 0'	14.5' 0'	14' 0'	12.5' 0'
20	0.024	12' 0'	12' 0'	12' 0'	12' 0'	9.5' 0'
25	0.024	11.5' 0'	11.5' 0'	11.5' 0'	11.5' 0'	9.5' 0'
30	0.024	10.5' 0'	10.5' 0'	10.5' 0'	10.5' 0'	8.5' 0'

Table 4.22

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure				
		B110	B115	C110	C115	C140
		Allowable Spans (ft)				
Live 10	0.024	21' 0'	20' 0'	18' 0'	17' 0'	14' 0'
Snow 10	0.024	18' 0'	17.5' 0'	16' 0'	15.5' 0'	13.5' 0'
20	0.024	14' 0'	14' 0'	13.5' 0'	13.5' 0'	12' 0'
25	0.024	13.5' 0'	13.5' 0'	13.5' 0'	13' 0'	12' 0'
30	0.024	12.5' 0'	12.5' 0'	12.5' 0'	12.5' 0'	11.5' 0'

Table 4.23

Commercial Cover or Carport Applications

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure				
		B110	B115	C110	C115	C140
		Allowable Spans (ft)				
Live 20	0.024	10' 0'	10' 0'	10' 0'	10' 0'	9' 0'
20	0.024	8.5' 0'	8.5' 0'	8.5' 0'	8.5' 0'	7.5' 0'
25	0.024	8' 0'	8' 0'	8' 0'	8' 0'	7.5' 0'
30	0.024	7' 0'	7' 0'	7' 0'	7' 0'	7' 0'

Table 4.25

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure				
		B110	B115	C110	C115	C140
		Allowable Spans (ft)				
Live 20	0.024	11.5' 0'	11.5' 0'	11.5' 0'	11.5' 0'	10.5' 0'
20	0.024	9' 0'	9' 0'	9' 0'	9' 0'	8.5' 0'
25	0.024	9' 0'	9' 0'	9' 0'	9' 0'	8.5' 0'
30	0.024	8' 0'	8' 0'	8' 0'	8' 0'	8' 0'

Table 4.26

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure				
		B110	B115	C110	C115	C140
		Allowable Spans (ft)				
Live 20	0.024	12.5' 0'	12.5' 0'	12.5' 0'	12.5' 0'	11.5' 0'
20	0.024	12' 0'	11.5' 0'	11' 0'	11' 0'	10' 0'
25	0.024	11.5' 0'	11.5' 0'	11' 0'	11' 0'	9.5' 0'
30	0.024	11' 0'	11' 0'	10.5' 0'	10' 0'	9.5' 0'

Table 4.27

Amerimax Exterior Products
28921 US Hwy 74
Romoland, CA

Carl Putnam, P. E.
3441 Ivylink Place
Lynchburg, VA 24503
carlputnam@comcast.net

Notes

1. These tables are for use with the ICC ESR 1398 Detail N1 or O and the 2012 IBC
2. These panels DO NOT have an embedded fan beam.
3. Panels are as specified in ICC ESR 2488.
4. These panel spans are for unenclosed patio cover, carports or commercial covers.
5. Attach to header and wall hanger as per Table 4.29.
6. Wind speeds noted are "Ultimate Design Wind Speeds".

Trib Width (ft)	Required Fastening of Foam Core Panels to Headers					
	Wind Speed (mph) and Exposure					
	B110	B115	C110	C115	C130	C140
	O/C Spacing of #14 SM screws					
3	12"	12"	12"	12"	12"	10"
4	12"	12"	12"	11"	9"	8"
5	12"	12"	10"	9"	7"	6"
6	12"	11"	8"	8"	6"	5"
7	10"	9"	7"	6"	5"	4"
8	9"	8"	6"	6"	4"	4"
9	8"	7"	6"	5"	4"	3"
10	7"	6"	5"	5"	4"	3"
11	6"	6"	5"	4"	3"	3"
12	6"	5"	4"	4"	3"	3"
13	5"	5"	4"	3"	3"	2"
14	5"	5"	4"	3"	3"	2"
15	5"	4"	3"	3"	2"	2"

Table 4.29

