

**Foam Core Sandwich Panels (Detail N1 or O) Spans for the 2015 IBC and 2016 CBC
Patio Cover Applications Only**

		3" Panel				
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 w/ fan beam	15.5'	15'	13.5'	13'	10.5'
		15'	14'	12.5'	12'	10'
Snow 10	0.024 w/ fan beam	13.5'	13'	12.5'	12'	10'
		12.5'	12'	11.5'	11'	9.5'
20	0.024 w/ fan beam	10.5'	10.5'	10'	9.5'	8'
		10'	10'	9.5'	9.5'	8'
25	0.024 w/ fan beam	10.5'	10.5'	10'	9.5'	7.5'
		9.5'	9.5'	9.5'	9.5'	7.5'
30	0.024 w/ fan beam	9.5'	9.5'	8.5'	8.5'	7'
		8.5'	8.5'	8.5'	8.5'	7'

Table 4.21

		4" Panel				
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 w/ fan beam	19'	18'	16'	15.5'	12.5'
		16.5'	15.5'	14'	13.5'	11'
Snow 10	0.024 w/ fan beam	16'	15.5'	14.5'	14'	12.5'
		14'	13.5'	12.5'	12'	10.5'
20	0.024 w/ fan beam	12'	12'	12'	12'	9.5'
		11'	11'	10.5'	10.5'	8.5'
25	0.024 w/ fan beam	11.5'	11.5'	11.5'	11.5'	9.5'
		10.5'	10.5'	10.5'	10'	8.5'
30	0.024 w/ fan beam	10.5'	10.5'	10.5'	10.5'	8.5'
		9.5'	9.5'	9.5'	9'	7.5'

Table 4.22

		6" Panel				
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'	20'	18'	17'	14'
		0'	0'	0'	0'	0'
Snow 10	0.024	18'	17.5'	16'	15.5'	13.5'
		0'	0'	0'	0'	0'
20	0.024	14'	14'	13.5'	13.5'	12'
		0'	0'	0'	0'	0'
25	0.024	13.5'	13.5'	13.5'	13'	12'
		0'	0'	0'	0'	0'
30	0.024	12.5'	12.5'	12.5'	12.5'	11.5'
		0'	0'	0'	0'	0'

Table 4.23

Commercial Cover or Carport Applications

		3" Panel				
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 w/ fan beam	10'	10'	10'	10'	9'
		9'	9'	9'	9'	8'
20	0.024 w/ fan beam	8.5'	8.5'	8.5'	8.5'	7.5'
		8.5'	8'	8'	7.5'	7'
25	0.024 w/ fan beam	8'	8'	8'	8'	7.5'
		8'	8'	7.5'	7.5'	7'
30	0.024 w/ fan beam	7'	7'	7'	7'	7'
		7.5'	7.5'	7.5'	7'	6.5'

Table 4.25

		4" Panel				
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 w/ fan beam	11.5'	11.5'	11.5'	11.5'	10.5'
		10'	10'	10'	10'	9'
20	0.024 w/ fan beam	9'	9'	9'	9'	8.5'
		9.5'	9'	8.5'	8.5'	7.5'
25	0.024 w/ fan beam	9'	9'	9'	9'	8.5'
		9'	9'	8.5'	8.5'	7.5'
30	0.024 w/ fan beam	8'	8'	8'	8'	8'
		8'	8'	8'	8'	7'

Table 4.26

		6" Panel				
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'	12.5'	12.5'	12.5'	11.5'
		0'	0'	0'	0'	0'
20	0.024	12'	11.5'	11'	11'	10'
		0'	0'	0'	0'	0'
25	0.024	11.5'	11.5'	11'	11'	9.5'
		0'	0'	0'	0'	0'
30	0.024	11'	11'	10.5'	10'	9.5'
		0'	0'	0'	0'	0'

Table 4.27

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- Notes**
1. These tables are for use with the ICC ESR 1398 Detail N1 or O and the 2015 IBC and 2016 CBC
 2. These panels have an embedded fan beam if indicated
 3. Panels w/o fan beams are as specified in ICC ESR 2488.
Panels w/ fan beams are specified in HCD CMJ-5b5-FBH-1
 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".

Required Fastening of Foam Core Panels to Headers						
Trib Width (ft)	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