

**A Foam Core Sandwich Panels Spans (1 pcf Foam)  
Patio Cover Applications Only**

Ground Snow Load (psf)	Panel Skin Thickness (in)		3" Panel				
			Wind Speed (mph) and Exposure B90	C90	C100	C105	C120
Live 10	0.024	no Fan Beam w/ Fan Beam	15'	13.5'	12.5'	12'	10.5'
			14.5'	13'	11.5'	11'	8.5'
Snow 10	0.024	no Fan Beam w/ Fan Beam	13.5'	12.5'	11.5'	11'	10'
			13'	12'	10.5'	9.5'	7.5'
20	0.024	no Fan Beam w/ Fan Beam	10.5'	10.5'	10.5'	10.5'	9.5'
			9.5'	9.5'	9'	8.5'	6.5'
25	0.024	no Fan Beam w/ Fan Beam	10'	10'	10'	10'	9.5'
			9.5'	9.5'	9'	8'	6.5'
30	0.024	no Fan Beam w/ Fan Beam	9'	9'	9'	9'	9'
			8.5'	8.5'	8.5'	7.5'	6.5'
40	0.024	no Fan Beam w/ Fan Beam	7.5'	7.5'	7.5'	7.5'	7.5'
			7'	7'	7'	6.5'	6'

Table A1

**Commercial Cover or Carport Applications**

Ground Snow Load (psf)	Panel Skin Thickness (in)		3" Panel				
			Wind Speed (mph) and Exposure B90	C90	C100	C105	C120
Live 20	0.024	no Fan Beam w/ Fan Beam	10'	10'	10'	9.5'	8.5'
			9.5'	9.5'	9.5'	9'	8'
20	0.024	no Fan Beam w/ Fan Beam	8'	8'	8'	8'	7.5'
			7.5'	7.5'	7.5'	7.5'	6.5'
25	0.024	no Fan Beam w/ Fan Beam	8'	8'	8'	8'	7.5'
			7'	7'	7'	7'	6.5'
30	0.024	no Fan Beam w/ Fan Beam	7'	7'	7'	7'	7'
			6.5'	6.5'	6.5'	6.5'	6.5'
40	0.024	no Fan Beam w/ Fan Beam	0'	0'	0'	0'	0'
			0'	0'	0'	0'	0'

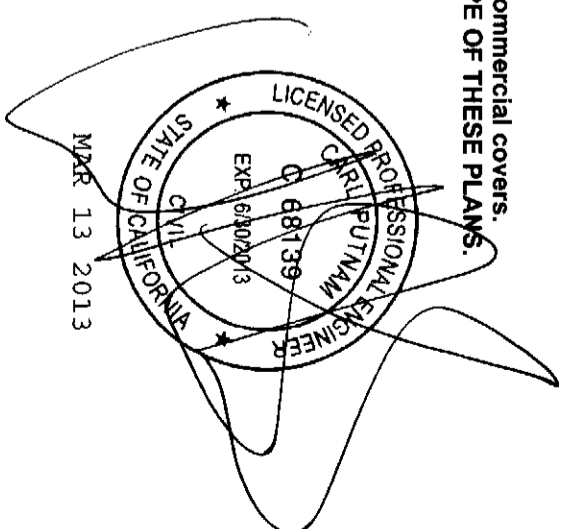
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Trib Width (ft)	Required Fastening of Foam Core Panels to Headers				
	90 C	110 B	110 C	120 C	130 C
4	12"	12"	12"	12"	11"
5	12"	12"	12"	11"	9"
6	12"	12"	11"	9"	7"
7	12"	11"	9"	8"	6"
8	12"	10"	8"	7"	6"
9	11"	9"	7"	6"	5"
10	10"	8"	6"	5"	4"
11	9"	7"	6"	5"	4"
12	8"	7"	5"	4"	4"
13	7"	6"	5"	4"	3"
14	7"	6"	5"	4"	3"
17	6"	5"	4"	3"	3"

TABLE A3

- Notes**
1. These tables are for use with ICC ESR 1398 Detail N1 or O
  2. These panels DO have an embedded fan beam if indicated.
  3. Panels are as specified in CA HCD FBH-22
  4. These panel spans are for unenclosed patio cover, carports or commercial covers.
  5. **COMPLIANCE WITH ELECTRICAL CODE IS OUTSIDE THE SCOPE OF THESE PLANS.**
  6. Maximum fan weight is 30 lbs.
  7. Fan Installation is outside scope of these plans.
  8. Attach to header as per Table A3.



**B Foam Core Sandwich Panels Spans (1.5 pcf Foam)  
Patio Cover Applications Only**

Ground Snow Load (psf)	Panel Skin Thickness (in)	3" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 10	0.024	15.5'	14.5'	13'	12.5'	11.5'
Live 10	0.032	17'	16'	14.5'	14'	12.5'
Snow 10	0.024	14'	13.5'	12.5'	12'	11'
Snow 10	0.032	15.5'	14.5'	13.5'	13.5'	12'
20	0.024	12'	12'	11.5'	11.5'	10.5'
20	0.032	13.5'	13.5'	13'	12.5'	11.5'
25	0.024	12'	12'	11.5'	11.5'	10.5'
25	0.032	13'	13'	13'	12.5'	11.5'
30	0.024	11'	11'	11'	11'	10'
30	0.032	12'	12'	12'	12'	11.5'
40	0.024	9.5'	9.5'	9.5'	9.5'	9.5'
40	0.032	10.5'	10.5'	10.5'	10.5'	10.5'
60	0.024	7.5'	7.5'	7.5'	7.5'	7.5'
60	0.032	8.5'	8.5'	8.5'	8.5'	8.5'

Table B.1

Ground Snow Load (psf)	Panel Skin Thickness (in)	3.5" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 10	0.024	17'	16'	14.5'	14'	12.5'
Live 10	0.032	19.5'	18'	16.5'	16'	14'
Snow 10	0.024	16'	15'	14'	13.5'	12'
Snow 10	0.032	17.5'	16.5'	15.5'	15'	13.5'
20	0.024	13.5'	13.5'	13'	12.5'	11.5'
20	0.032	15'	15'	14.5'	14'	13'
25	0.024	13.5'	13.5'	13'	12.5'	11.5'
25	0.032	14.5'	14.5'	14.5'	14'	13'
30	0.024	12.5'	12.5'	12.5'	12.5'	11.5'
30	0.032	13.5'	13.5'	13.5'	13.5'	12.5'
40	0.024	11'	11'	11'	11'	11'
40	0.032	12'	12'	12'	12'	12'
60	0.024	9'	9'	9'	9'	9'
60	0.032	9.5'	9.5'	9.5'	9.5'	9.5'

Table B.2

Ground Snow Load (psf)	Panel Skin Thickness (in)	4" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 10	0.024	18.5'	17'	16'	15.5'	13.5'
Live 10	0.032	21'	19'	17.5'	17'	15'
Snow 10	0.024	17'	16'	15'	14.5'	13'
Snow 10	0.032	19'	17.5'	16.5'	16'	14.5'
20	0.024	14.5'	14.5'	14'	13.5'	12.5'
20	0.032	16'	16'	15.5'	15'	14'
25	0.024	14'	14'	14'	13.5'	12.5'
25	0.032	15.5'	15.5'	15.5'	15'	14'
30	0.024	13'	13'	13'	13'	12.5'
30	0.032	14.5'	14.5'	14.5'	14.5'	13.5'
40	0.024	11.5'	11.5'	11.5'	11.5'	11.5'
40	0.032	12.5'	12.5'	12.5'	12.5'	12.5'
60	0.024	9.5'	9.5'	9.5'	9.5'	9.5'
60	0.032	10.5'	10.5'	10.5'	10.5'	10.5'

Table B.3

Ground Snow Load (psf)	Panel Skin Thickness (in)	6" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 10	0.024	22'	22'	21'	20'	17.5'
Live 10	0.032	22'	22'	22'	22'	20'
Snow 10	0.024	22'	21'	19.5'	18.5'	16.5'
Snow 10	0.032	22'	22'	22'	21'	19.5'
20	0.024	18'	18'	18'	17.5'	15.5'
20	0.032	21'	21'	20.5'	20'	18.5'
25	0.024	18'	18'	18'	17.5'	15.5'
25	0.032	21'	21'	20.5'	20'	18.5'
30	0.024	16'	16'	16'	16'	15.5'
30	0.032	19'	19'	19'	19'	18'
40	0.024	14'	14'	14'	14'	14'
40	0.032	16.5'	16.5'	16.5'	16.5'	16.5'
60	0.024	11.5'	11.5'	11.5'	11.5'	11.5'
60	0.032	13.5'	13.5'	13.5'	13.5'	13.5'

Table B.4

**Commercial Cover or Carport Applications**

Ground Snow Load (psf)	Panel Skin Thickness (in)	3" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 20	0.024	11'	11'	11'	10.5'	9.5'
Live 20	0.032	12'	12'	12'	12'	10.5'
20	0.032	10'	10'	10'	9.5'	8.5'
20	0.032	11'	11'	11'	10.5'	9.5'
25	0.024	9.5'	9.5'	9.5'	9.5'	8.5'
25	0.032	10.5'	10.5'	10.5'	10.5'	9.5'
30	0.024	9'	9'	9'	9'	8.5'
30	0.032	10'	10'	10'	10'	9.5'
40	0.024	7.5'	7.5'	7.5'	7.5'	7.5'
40	0.032	8.5'	8.5'	8.5'	8.5'	8.5'
60	0.024	6'	6'	6'	6'	6'
60	0.032	6.5'	6.5'	6.5'	6.5'	6.5'

Table B.5

Ground Snow Load (psf)	Panel Skin Thickness (in)	3.5" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 20	0.024	12'	12'	12'	12'	11'
Live 20	0.032	13.5'	13.5'	13.5'	13.5'	12'
20	0.024	11.5'	11.5'	11.5'	11.5'	10'
20	0.032	12.5'	12.5'	12.5'	12'	11'
25	0.024	11'	11'	10.5'	10.5'	10'
25	0.032	12'	12'	12'	12'	11'
30	0.024	10.5'	10.5'	10.5'	10.5'	9.5'
30	0.032	11.5'	11.5'	11.5'	11.5'	10.5'
40	0.024	9'	9'	9'	9'	9'
40	0.032	9.5'	9.5'	9.5'	9.5'	9.5'
60	0.024	7'	7'	7'	7'	7'
60	0.032	7.5'	7.5'	7.5'	7.5'	7.5'

Table B.6

Ground Snow Load (psf)	Panel Skin Thickness (in)	4" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 20	0.024	13'	13'	13'	13'	11.5'
Live 20	0.032	14.5'	14.5'	14.5'	14.5'	13'
20	0.024	12'	12'	12'	11.5'	10.5'
20	0.032	13.5'	13.5'	13'	13'	11.5'
25	0.024	12'	12'	12'	11.5'	10.5'
25	0.032	13'	13'	13'	12.5'	11.5'
30	0.024	11'	11'	11'	11'	10.5'
30	0.032	12'	12'	12'	12'	11.5'
40	0.024	9.5'	9.5'	9.5'	9.5'	9.5'
40	0.032	10.5'	10.5'	10.5'	10.5'	10.5'
60	0.024	7.5'	7.5'	7.5'	7.5'	7.5'
60	0.032	8'	8'	8'	8'	8'

Table B.7

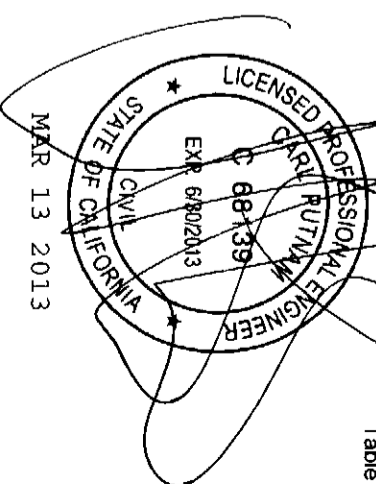
Ground Snow Load (psf)	Panel Skin Thickness (in)	6" Panel				
		Wind Speed (mph) and Exposure				
		B90	C90	C100	C105	C120
Live 20	0.024	16.5'	16.5'	16.5'	16.5'	14'
Live 20	0.032	19.5'	19.5'	19.5'	19'	17'
20	0.024	16'	16'	14.5'	14'	13'
20	0.032	17.5'	17.5'	17.5'	17'	15'
25	0.024	15.5'	15.5'	14.5'	14'	12.5'
25	0.032	17'	17'	17'	16.5'	15'
30	0.024	14'	14'	14'	13.5'	12.5'
30	0.032	15.5'	15.5'	15.5'	15.5'	15'
40	0.024	12'	12'	12'	12'	12'
40	0.032	13.5'	13.5'	13.5'	13.5'	13.5'
60	0.024	9.5'	9.5'	9.5'	9.5'	9.5'
60	0.032	11'	11'	11'	11'	11'

Table B.8

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- Notes**
1. These tables are for use with ICC ESR 1398 Detail N1 or O
  2. These panels do NOT have an embedded fan beam.
  3. Panels are as specified in ICC ESR 2229
  4. Attach to header as per Table A.3.
  5. These panel spans are for unenclosed patio cover, carports or commercial covers.



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C Foam Core Sandwich Panels Spans w/ Fan Beams (1.5 pcf Foam)  
Patio Cover Applications Only

**3" Panel w/ Fan Beam**

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure								
		C90	C100	C105	C110	C120	Allowable Spans (ft)			
Live 10	0.024	14'	13'	12.5'	12'	10'				
	0.032	15.5'	14'	13.5'	13'	12'				
Snow 10	0.024	13'	12'	11.5'	11'	9.5'				
	0.032	14.5'	13.5'	13'	12.5'	11.5'				
20	0.024	11.5'	11'	10'	9.5'	8.5'				
	0.032	12.5'	12.5'	12'	12'	11'				
25	0.024	11.5'	11'	10'	9.5'	8'				
	0.032	12.5'	12.5'	12'	11.5'	11'				
30	0.024	10.5'	10.5'	9.5'	9'	8'				
	0.032	11.5'	11.5'	11.5'	11.5'	11'				
40	0.024	9'	8.5'	8.5'	8'	7'				
	0.032	10'	10'	10'	10'	10'				
60	0.024	6'	6'	6'	6'	0'				
	0.032	8'	8'	8'	8'	8'				

Table C.1

**3.5" Panel w/ Fan Beam**

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure								
		C90	C100	C105	C110	C120	Allowable Spans (ft)			
Live 10	0.024	15.5'	14'	13.5'	13'	12'				
	0.032	17.5'	16'	15.5'	15'	13.5'				
Snow 10	0.024	14.5'	13'	12.5'	12'	11.5'				
	0.032	16'	15'	14.5'	14'	13'				
20	0.024	13'	12.5'	12'	11.5'	10.5'				
	0.032	14.5'	14'	13.5'	13.5'	12.5'				
25	0.024	13'	12'	11.5'	11.5'	10'				
	0.032	14'	14'	13.5'	13.5'	12.5'				
30	0.024	12'	12'	11.5'	11'	9.5'				
	0.032	13'	13'	13'	13'	12.5'				
40	0.024	10.5'	10.5'	10.5'	10'	9'				
	0.032	11.5'	11.5'	11.5'	11.5'	11.5'				
60	0.024	7'	7'	7'	7'	7'				
	0.032	9'	9'	9'	9'	9'				

Table C.2

**4" Panel w/ Fan Beam**

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure								
		C90	C100	C105	C110	C120	Allowable Spans (ft)			
Live 10	0.024	16'	14.5'	13.5'	13'	12'				
	0.032	18.5'	17'	16.5'	15.5'	14.5'				
Snow 10	0.024	14.5'	13.5'	12.5'	12'	11.5'				
	0.032	17.5'	16'	15.5'	14.5'	13.5'				
20	0.024	13.5'	12.5'	12'	11.5'	10.5'				
	0.032	15.5'	15'	14'	14'	13'				
25	0.024	13'	12'	12'	11.5'	10.5'				
	0.032	15'	14.5'	14'	13.5'	13'				
30	0.024	12.5'	12'	11.5'	11'	10.5'				
	0.032	14'	14'	14'	13.5'	12.5'				
40	0.024	11'	11'	10.5'	10.5'	10'				
	0.032	12'	12'	12'	12'	12'				
60	0.024	8.5'	8.5'	8.5'	8.5'	8'				
	0.032	10'	10'	10'	10'	10'				

Table C.3

**6" Panel w/ Fan Beam**

Ground Snow Load (psf)	Panel Skin Thickness (in)	Wind Speed (mph) and Exposure								
		C90	C100	C105	C110	C120	Allowable Spans (ft)			
Live 10	0.024	22'	20.5'	19.5'	18.5'	17'				
	0.032	22'	19.5'	18.5'	18'	16.5'				
Snow 10	0.024	21'	19'	18.5'	17.5'	16.5'				
	0.032	20'	18'	17.5'	17'	15.5'				
20	0.024	18'	17.5'	17'	16.5'	15.5'				
	0.032	18.5'	17'	16.5'	16'	14.5'				
25	0.024	18'	17.5'	17'	16.5'	15.5'				
	0.032	18'	17'	16'	15.5'	14.5'				
30	0.024	16'	16'	16'	16'	15'				
	0.032	17'	16.5'	16'	15.5'	14.5'				
40	0.024	14'	14'	14'	14'	14'				
	0.032	15'	15'	14.5'	14.5'	14'				
60	0.024	11.5'	11.5'	11.5'	11.5'	11.5'				
	0.032	12.5'	12.5'	12.5'	12.5'	12.5'				

Table C.4

**Original Allowable Post spacing for 10 psf Roof Loads**

Trib Width (ft)	Allowable Post Spacing w/ Fan											
	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'+
4	2-5"	3-8"	4-10"	6-0"	7-0"	8-1"	9-1"	10-2"	11-2"	12-2"	13-3"	84%
5	3-5"	4-6"	5-7"	6-8"	7-8"	8-9"	9-9"	10-9"	11-9"	12-10"	13-10"	87%
6	4-0"	5-0"	6-1"	7-1"	8-1"	9-2"	10-2"	11-2"	12-2"	13-2"	14-2"	90%
7	4-4"	5-4"	6-4"	7-5"	8-5"	9-5"	10-5"	11-5"	12-5"	13-5"	14-6"	91%
8	4-6"	5-7"	6-7"	7-7"	8-7"	9-8"	10-8"	11-8"	12-8"	13-8"	14-8"	92%
9	4-9"	5-9"	6-9"	7-9"	8-9"	9-9"	10-9"	11-10"	12-10"	13-10"	14-10"	93%
10	4-10"	5-10"	6-11"	7-11"	8-11"	9-11"	10-11"	11-11"	12-11"	13-11"	14-11"	94%
11	5-0"	6-0"	7-0"	8-0"	9-0"	10-0"	11-0"	12-0"	13-0"	14-0"	15-0"	95%
12	5-1"	6-1"	7-1"	8-1"	9-1"	10-1"	11-1"	12-1"	13-1"	14-1"	15-1"	95%
13	5-2"	6-2"	7-2"	8-2"	9-2"	10-2"	11-2"	12-2"	13-2"	14-2"	15-2"	95%
14	5-2"	6-2"	7-3"	8-3"	9-3"	10-3"	11-3"	12-3"	13-3"	14-3"	15-3"	96%
15	5-3"	6-3"	7-3"	8-3"	9-3"	10-3"	11-3"	12-3"	13-3"	14-3"	15-3"	96%
16	5-4"	6-4"	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	96%

Table C.5

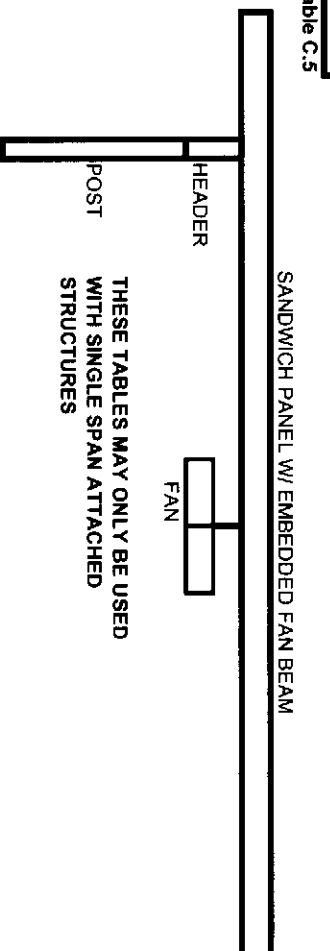
**Original Allowable Post spacing for 20 psf and Greater Roof Uniform Loads**

Trib Width (ft)	Allowable Post Spacing w/ Fan											
	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'+
4	4-6"	5-7"	6-7"	7-7"	8-7"	9-8"	10-8"	11-8"	12-8"	13-8"	14-8"	92%
5	4-10"	5-10"	6-11"	7-11"	8-11"	9-11"	10-11"	11-11"	12-11"	13-11"	14-11"	94%
6	5-1"	6-1"	7-1"	8-1"	9-1"	10-1"	11-1"	12-1"	13-1"	14-1"	15-1"	95%
7	5-2"	6-2"	7-3"	8-3"	9-3"	10-3"	11-3"	12-3"	13-3"	14-3"	15-3"	96%
8	5-4"	6-4"	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	96%
9	5-4"	6-5"	7-5"	8-5"	9-5"	10-5"	11-5"	12-5"	13-5"	14-5"	15-5"	97%
10	5-5"	6-5"	7-5"	8-5"	9-5"	10-5"	11-5"	12-5"	13-5"	14-5"	15-5"	97%
11	5-6"	6-6"	7-6"	8-6"	9-6"	10-6"	11-6"	12-6"	13-6"	14-6"	15-6"	97%
12	5-6"	6-6"	7-6"	8-6"	9-6"	10-6"	11-6"	12-6"	13-6"	14-6"	15-6"	98%
13	5-7"	6-7"	7-7"	8-7"	9-7"	10-7"	11-7"	12-7"	13-7"	14-7"	15-7"	98%
14	5-7"	6-7"	7-7"	8-7"	9-7"	10-7"	11-7"	12-7"	13-7"	14-7"	15-7"	98%
15	5-7"	6-7"	7-7"	8-7"	9-7"	10-7"	11-7"	12-7"	13-7"	14-7"	15-7"	98%

Table C.6

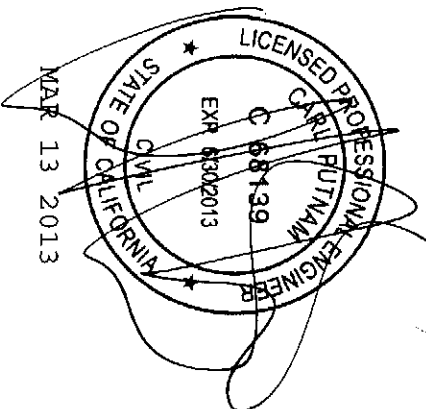
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THESE TABLES MAY ONLY BE USED WITH SINGLE SPAN ATTACHED STRUCTURES

- Notes
1. These tables are for use with ICC ESR 1398 Detail N1 or O
  2. These panels DO have an embedded fan beam.
  3. Panels are as specified in ICC ESR 2229
  4. Panels are approved under CA HCD FBH-17 and FBH-18
  5. COMPLIANCE WITH ELECTRICAL CODE IS OUTSIDE THE SCOPE OF THESE PLANS
  6. Maximum fan weight is 30 lbs.
  7. Fan Installation is outside scope of these plans.
  8. Attach to header as per Table A.3.



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