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Model PFAB Standard Specifications

Frame: 18 gauge galvanized steel, 4" deep

Blades: J style, 20 gauge galvanized steel, positioned at 45° angles on approximately 4" centers.

Roof: Fabricated at .050" (1.3 mm) thickness 20 gauge formed galvanized steel, roof is secured with sheet metal screws for ease in removal. Flat roofs are cross-broken for adequate element run-off. Models with pitched roofs have a 1" in 12" or 3" in 12" (25.4mm in 305mm or 76mm in 305mm) pitch.

Internal Framing: 1-1/2" x 1-1/2" x 1/8" (38 mm x 38 mm) framing angles of 20 gauge galvanized steel on 48" (1219 mm) maximum centers.

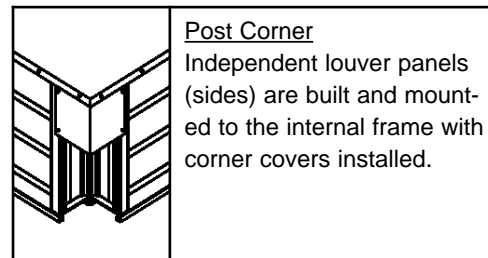
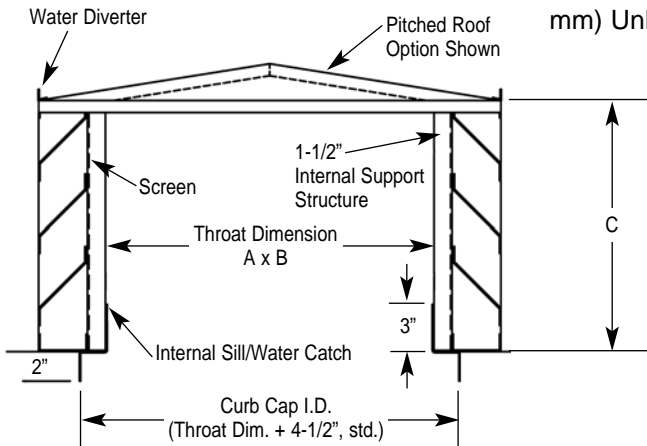
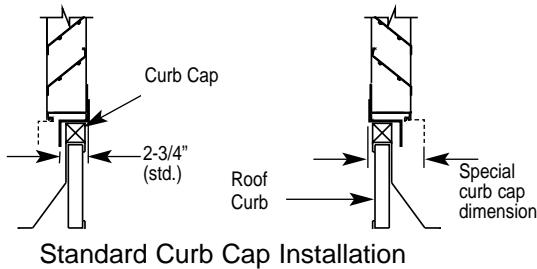
Finish: galvanized steel mill finish for low maintenance and resistance to corrosion

Screen: 3/4" x .051" flattened aluminum bird screen

Sizing: Order size is actual throat dimensions. Throat is undercut 1/2" (12 mm) in both "A" and "B" dimensions for installation allowance.

Minimum: 12"w x 12"L x 12"h (305 mm x 305 mm x 305 mm)

Maximum: 72"w x 220"L x 80"h (1829 mm x 5588 mm x 2032 mm) Unlimited size with multiple section assembly.



Tag	Qty.	Size			Variations
		Width	Length	Height	

**Project
Arch./Engr.
Representative**

**Location
Contractor
Date**

Model PFAB

Free Area in Square Feet

HEIGHT INCHES	WIDTH IN INCHES									
	8	12	18	24	30	36	42	48	54	60
10	0.07	0.11	0.19	0.26	0.34	0.41	0.49	0.56	0.64	0.71
12	0.13	0.23	0.38	0.53	0.68	0.83	0.98	1.13	1.28	1.43
18	0.23	0.41	0.67	0.93	1.20	1.46	1.73	1.99	2.25	2.52
24	0.38	0.67	1.10	1.54	1.97	2.40	2.84	3.27	3.70	4.14
30	0.48	0.84	1.39	1.94	2.49	3.04	3.58	4.13	4.68	5.23
36	0.63	1.11	1.82	2.54	3.25	3.98	4.59	5.41	6.13	6.85
42	0.73	1.28	2.11	2.95	3.78	4.61	5.44	6.27	7.11	7.94
48	0.88	1.54	2.56	3.56	4.55	5.55	6.56	7.56	8.58	9.56
54	0.98	1.72	2.84	3.95	5.07	6.18	7.30	8.42	9.53	10.65
60	1.12	1.98	3.27	4.56	5.84	7.12	8.41	9.70	10.98	12.27
66	1.22	2.16	3.56	4.96	6.38	7.76	9.16	10.56	11.96	13.36
72	1.37	2.42	3.99	5.58	7.13	8.70	10.27	11.84	13.41	14.98
78	1.47	2.60	4.28	5.96	7.65	9.33	11.02	12.70	14.38	16.07
84	1.62	2.86	4.71	6.57	8.42	10.27	12.13	13.98	15.83	17.69
90	1.72	3.03	5.00	6.97	8.94	10.91	12.87	14.84	16.81	18.78
96	1.87	3.30	5.43	7.57	9.71	11.85	13.98	16.12	18.26	20.40

PFAB Selection and Examples

Example 1:

Airflow given as 12,000 cfm – select four louver sides

A. $12,000 \text{ cfm} \div 4 \text{ louver sides} = 3,000 \text{ cfm per side}$

B. $3,000 \text{ cfm} \div 840 \text{ fpm} = 3.57 \text{ ft}^2 \text{ (F.A.) per side}$

C. Select louver from the above free area chart

$42'' \text{w} \times 30'' \text{h} = 3.58 \text{ ft}^2 \text{ (F.A.)}$

$3.58 \text{ ft}^2 \times 4 \text{ sides} = 14.32 \text{ ft}^2 \text{ total}$

Example 2:

To select "rectangular" shape in lieu of square

A. Simply break down 14.32 ft^2

$4 + 4 + 3 + 3 = 14 \text{ ft}^2$

B. Select louver from above free area chart

$3 \text{ ft}^2 = 36'' \times 30''$

$4 \text{ ft}^2 = 46'' \times 30''$

Penthouse size $46'' \text{w} \times 36'' \text{l} \times 30'' \text{h}$