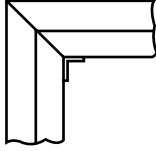


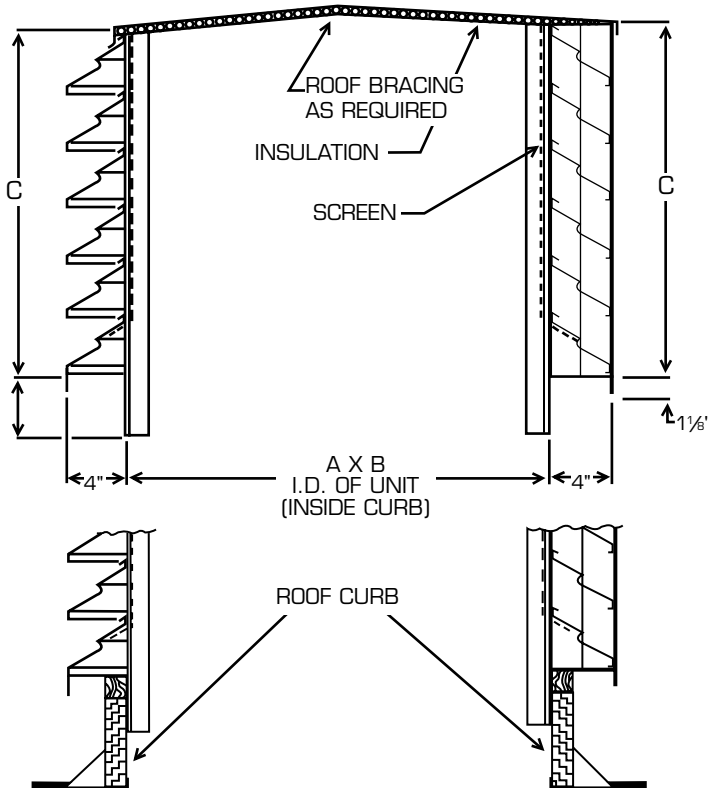
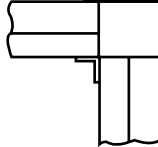


**CERTIFICATION & SUBMITTAL
 MODEL 7140
 Extruded Aluminum Penthouses**

MITERED
CORNER



BOX
CORNER



STANDARD SPECIFICATIONS

- **FRAME:** 1-1/2" x 1-1/2" x 1/8" aluminum structural angles.
- **BLADES:** .080 6063T6 extruded aluminum.
- **ROOF:** Removable .063 3003-H-14 aluminum press formed and screwed to frame.
- **INSULATION:** 1/2" fiberglass on underside of roof.
- **BIRDSCREEN:** .051 x 3/4" diamond pattern expanded aluminum.
- **CONSTRUCTION:**
 - A. Mitered Corner – heliarc welded mitered corners.
 - B. Box Corner – .063 aluminum

OPTIONS

- 40 Standard screen in removable frame.
- 42 18 x 16 mesh aluminum insect screen (removable).
- 45 1/2" x 1/2" x .063 aluminum screen.
- 47 1/2" x 1/2" x 19 gauge PVC coated birdscreen.
- 95 Finishing.
- 99 Nonstandard option on standard products, specify.

NOTES

1. A and B are opening dimensions. Unless otherwise specified, penthouses are made 1/2" undersize.
2. Refer to form # 2700 for louver construction.
3. Refer to catalog # 8000 for roof curb information.
4. Large units, depending on freight requirements are shipped knocked down in multiple sections for field assembly.

Penthouse Model
7141
7142

Corners
Miter
Box

Louver Model
2700
2700



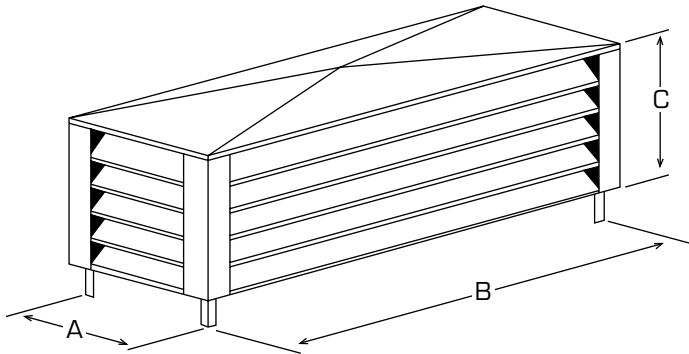
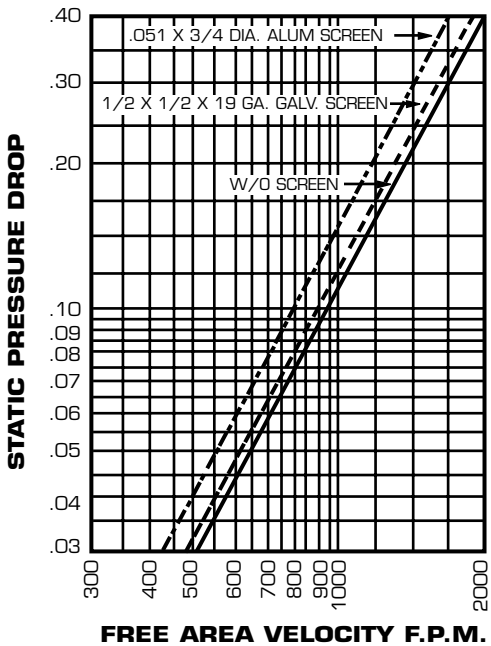
**PERFORMANCE DATA
MODEL 7140
Extruded Aluminum Penthouse**

FREE AREA CHART

		A - WIDTH (In Inches)															
		12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72
B - HEIGHT (In Inches)	12	.29	.41	.53	.65	.76	.88	1.00	1.12	1.24	1.35	1.47	1.59	1.71	1.83	1.94	2.06
	16	.48	.67	.86	1.05	1.25	1.44	1.63	1.82	2.02	2.21	2.40	2.60	2.79	2.98	3.17	3.37
	20	.66	.93	1.20	1.46	1.73	2.00	2.26	2.53	2.80	3.07	3.33	3.60	3.87	4.13	4.40	4.67
	24	.82	1.15	1.48	1.81	2.14	2.47	2.80	3.13	3.46	3.79	4.12	4.45	4.78	5.11	5.44	5.77
	28	.95	1.34	1.72	2.11	2.49	2.88	3.26	3.65	4.03	4.42	4.80	5.19	5.57	5.96	6.34	6.73
	32	1.13	1.58	2.03	2.49	2.94	3.40	3.85	4.31	4.76	5.22	5.67	6.12	6.58	7.03	7.49	7.94
	36	1.31	1.84	2.37	2.90	3.43	3.96	4.48	5.01	5.54	6.07	6.60	7.13	7.66	8.19	8.72	9.25
	40	1.49	2.10	2.70	3.31	3.91	4.51	5.12	5.72	6.32	6.93	7.53	8.14	8.74	9.34	9.95	10.55
	44	1.63	2.29	2.95	3.61	4.27	4.93	5.59	6.25	6.91	7.57	8.23	8.89	9.55	10.21	10.87	11.53
	48	1.77	2.49	3.21	3.92	4.64	5.36	6.07	6.79	7.51	8.22	8.94	9.65	10.37	11.09	11.80	12.52
	52	1.96	2.75	3.54	4.33	5.12	5.91	6.70	7.50	8.29	9.08	9.87	10.66	11.45	12.24	13.03	13.82
	56	2.14	3.01	3.87	4.74	5.61	6.47	7.34	8.20	9.07	9.93	10.80	11.67	12.53	13.40	14.26	15.13
	60	2.31	3.25	4.18	5.12	6.05	6.99	7.92	8.86	9.79	10.73	11.66	12.60	13.53	14.47	15.40	16.34
	64	2.45	3.44	4.43	5.42	6.41	7.40	8.39	9.38	10.37	11.36	12.35	13.34	14.33	15.32	16.31	17.30
	68	2.61	3.66	4.71	5.77	6.82	7.87	8.92	9.98	11.03	12.08	13.14	14.19	15.24	16.30	17.35	18.40
	72	2.79	3.92	5.05	6.17	7.30	8.43	9.56	10.68	11.81	12.94	14.07	15.19	16.32	17.45	18.58	19.71

FREE AREA (Sq. Ft.)

AIR PERFORMANCE



Free Area = {2 (Ax C)} + {2 (BxC)}

Example: Model 7142
 24" (A) x 36" (B) x 12" (C) I.D. Dimensions
 Free Area = {2 (free area of 24" x 12")} + {2 (free area of 36" x 12")}
 Free Area = {2 (.65)} + {2 (1.00)}
 Free Area = {1.30} + {2.00}
 Free Area = 3.30 Sq. Ft.

It is possible for moisture to penetrate louvers under adverse atmospheric conditions. Drained ductwork or other means of drainage is recommended.

Data shown includes the effect of .051 x 3/4" diamond pattern aluminum birdscreen. Graphs are corrected to standard air density .075 lb. per cubic ft

RECOMMENDED MAXIMUM INTAKE FREE AREA VELOCITY 400 F.P.M.