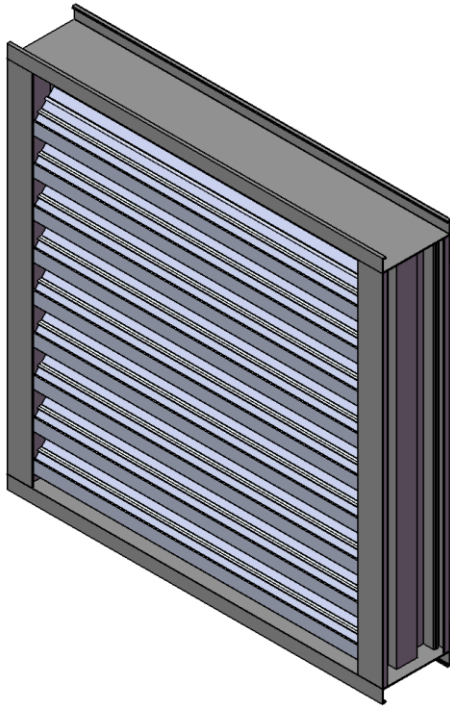


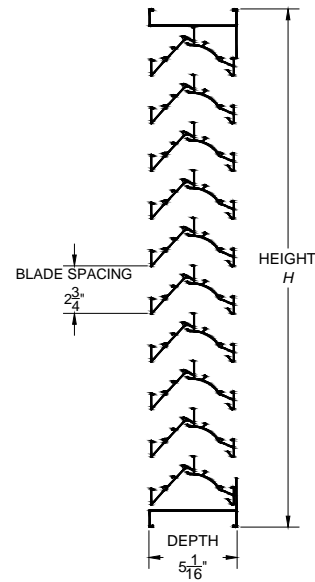
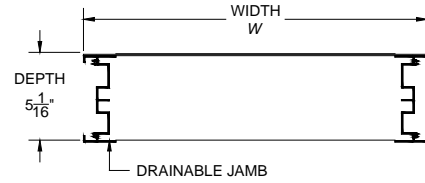


LOUVERS & BACK DRAFT DAMPERS

Model 2590
WIND-DRIVEN RAIN LOUVER • 5" DEEP



MODEL: 2590
FRAME: CHANNEL FRAME
DUCT-MOUNT (DM)



PERFORMANCE			
LOUVER UNIT SIZE	TOTAL AREA	FREE AREA	FREE AREA
48" x 48" (1219 x 1219 mm)	16 ft ² (1.49 m ²)	7.51 ft ² (0.70 m ²)	46.9%

STANDARD CONSTRUCTION	
DEPTH:	5 1/16" (129 mm)
MATERIAL:	EXTRUDED ALUMINUM - 6063-T5 ALLOY
FRAME THICKNESS:	0.081" (2.06 mm)
BLADE THICKNESS:	0.065" (1.65 mm)
BLADE ANGLE:	40°
BLADE CENTRES:	2.75" (70 mm)
BIRDSCREEN:	19 GA. GALVANIZED BIRDSCREEN - 1/2" x 1/2" OPENINGS
FINISH:	MILL

SIZE LIMITATIONS: SINGLE SECTION LOUVER		
	MINIMUM	MAXIMUM
WIDTH	12" (305 mm)	60" (1524 mm)
HEIGHT	12" (305 mm)	120" (3048 mm)
AREA	1 ft ² (0.09 m ²)	50 ft ² (4.65 m ²)

*LOUVER WILL BE MANUFACTURED 1/4" (6.4 mm) SMALLER (SINGLE SECTION) AND 1/2" (12.7 mm) SMALLER (MULTIPLE SECTION) THAN GIVEN OPENING DIMENSIONS UNLESS OTHERWISE SPECIFIED

AVAILABLE ACCESSORIES		
FINISH: <ul style="list-style-type: none"> POLYESTER POWDER COAT DURANAR FINISH ANODIZED FINISH <ul style="list-style-type: none"> CLEAR ANODIZED LIGHT BRONZE MEDIUM BRONZE DARK BRONZE BLACK ANODIZED EXTENDED SILLS SECURITY BARS FILTER RACKS STAINLESS STEEL FASTENERS HINGED ACCESS DOORS ALL WELDED CONSTRUCTION CONTINUOUS LINE CONSTRUCTION IS <u>NOT AVAILABLE</u>* 	SCREENS: <ul style="list-style-type: none"> BIRDSCREEN <ul style="list-style-type: none"> 1/2" x 1/2" INTER CRIMPED ALUMINUM ALUMINUM BIRDSCREEN WITH FRAME INSECT SCREEN <ul style="list-style-type: none"> 18 x 14 MESH 	BLANK-OFF PANELS (ALUMINUM): VARIOUS GAUGES <ul style="list-style-type: none"> NON-INSULATED BLANK-OFF PANELS INSULATED BLANK-OFF PANELS <ul style="list-style-type: none"> 1" (25.4 mm) INSULATION 2" (50.8 mm) INSULATION

FREE AREA (Sq. Ft.)

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LOUVERS & BACK DRAFT DAMPERS

Model 2590 WIND-DRIVEN RAIN LOUVER • 5" DEEP

HEIGHT (INCHES)	WIDTH (INCHES)												
	12	16	20	24	28	32	36	40	44	48	52	56	60
12	0.19	0.28	0.38	0.47	0.56	0.65	0.75	0.84	0.93	1.02	1.12	1.21	1.30
16	0.38	0.56	0.74	0.92	1.11	1.29	1.47	1.66	1.84	2.02	2.20	2.39	2.57
20	0.47	0.70	0.93	1.15	1.38	1.61	1.84	2.06	2.29	2.52	2.75	2.98	3.20
24	0.66	0.97	1.29	1.61	1.93	2.25	2.56	2.88	3.20	3.52	3.84	4.15	4.47
28	0.75	1.11	1.48	1.84	2.20	2.56	2.93	3.29	3.65	4.02	4.38	4.74	5.11
32	0.94	1.39	1.84	2.30	2.75	3.20	3.66	4.11	4.56	5.02	5.47	5.92	6.38
36	1.03	1.53	2.02	2.52	3.02	3.52	4.02	4.52	5.02	5.51	6.01	6.51	7.01
40	1.21	1.80	2.39	2.98	3.57	4.16	4.75	5.33	5.92	6.51	7.10	7.69	8.28
44	1.31	1.94	2.57	3.21	3.84	4.48	5.11	5.74	6.38	7.01	7.64	8.28	8.91
48	1.40	2.08	2.76	3.44	4.12	4.80	5.48	6.16	6.84	7.51	8.20	8.88	9.56
52	1.59	2.36	3.12	3.89	4.66	5.43	6.20	6.97	7.74	8.51	9.28	10.05	10.82
56	1.68	2.49	3.31	4.12	4.94	5.75	6.56	7.38	8.19	9.01	9.82	10.64	11.45
60	1.87	2.77	3.67	4.58	5.48	6.39	7.29	8.20	9.10	10.01	10.91	11.81	12.72
64	1.96	2.91	3.86	4.81	5.76	6.71	7.66	8.61	9.55	10.50	11.45	12.40	13.35
68	2.14	3.18	4.22	5.26	6.30	7.34	8.38	9.42	10.46	11.50	12.54	13.58	14.62
72	2.24	3.32	4.41	5.49	6.58	7.66	8.75	9.83	10.92	12.00	13.09	14.17	15.26
76	2.42	3.60	4.77	5.95	7.12	8.30	9.47	10.65	11.82	13.00	14.17	15.35	16.53
80	2.52	3.74	4.96	6.18	7.40	8.62	9.84	11.06	12.28	13.50	14.72	15.94	17.16
84	2.70	4.01	5.32	6.63	7.94	9.26	10.57	11.88	13.19	14.50	15.81	17.12	18.43
88	2.80	4.15	5.51	6.86	8.22	9.57	10.93	12.28	13.64	15.00	16.35	17.71	19.06
92	2.98	4.43	5.87	7.32	8.77	10.21	11.66	13.10	14.55	15.99	17.44	18.89	20.33
96	3.07	4.57	6.06	7.55	9.04	10.53	12.02	13.51	15.00	16.49	17.98	19.47	20.97
100	3.17	4.70	6.24	7.78	9.31	10.85	12.38	13.92	15.46	16.99	18.53	20.06	21.60
104	3.35	4.98	6.61	8.23	9.86	11.49	13.11	14.74	16.36	17.99	19.62	21.24	22.87
108	3.45	5.12	6.79	8.46	10.13	11.80	13.48	15.15	16.82	18.49	20.16	21.83	23.50
112	3.63	5.39	7.16	8.92	10.68	12.44	14.20	15.96	17.73	19.49	21.25	23.01	24.77
116	3.73	5.53	7.34	9.15	10.95	12.76	14.57	16.37	18.18	19.99	21.79	23.60	25.41
120	3.91	5.81	7.71	9.60	11.50	13.40	15.29	17.19	19.09	20.98	22.88	24.78	26.68

WIND-DRIVEN RAIN Test per AMCA Standard 500-L, Figure 5.11

Test Size 39.375" x 39.375" (1m x 1m) Core Size

CORE VELOCITY THROUGH LOUVER [FPM]	WATER PENETRATION EFFECTIVENESS [%]	WATER PENETRATION CLASSIFICATION
0	100	A
189	99.9	A
283	99.8	A
374	99.6	A
472	98.5	B
584	96.0	B
678	91.7	C
770	87.7	C
875	85.7	C
984	82.2	C

RAINFALL RATE: 3"/hour WIND VELOCITY: 29.1 mph
DISCHARGE LOSS COEFFICIENT CLASS: 3 (0.2 to 0.299)

PENETRATION CLASS (FOR WIND-DRIVEN RAIN)

CLASS	EFFECTIVENESS	MAXIMUM ALLOWED PENETRATION [oz/h/ft ²] RAINFALL RATE: 3 in./hr WIND VELOCITY: 29 mph
A	100% to 99%	2.36
B	98.9% to 95%	11.8
C	94.9% to 80%	47.1
D	Below 80%	Greater than 47.1

RATINGS INCLUDE THE EFFECTS OF SILL DRAIN PAN. DATA CORRECTED TO STANDARD AIR DENSITY @ 0.075 LBS/FT³.

RECOMMENDED SPECIFICATION

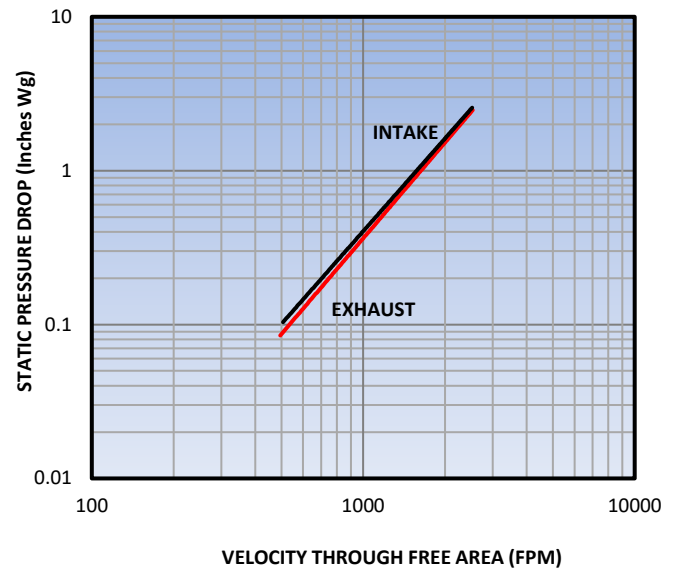
Furnish and install stationary louver model 2590 as manufactured by Ventex Inc, Bolton, Ontario. Louver must be licensed to bear the AMCA seal. Louvers shall be 5-1/16" (129 mm) deep. Blades shall be 0.065" (1.65 mm) extruded 6063-T5 aluminum alloy and frame shall be 0.081" (2.06 mm) extruded 6063-T5 aluminum alloy. Louvers shall have 19 gauge galvanized 1/2" x 1/2" birdscreen. All materials shall be factory finished after assembly with Polyester Powder Coat in a colour selected from the Ventex Colour Chart.

CERTIFIED RATINGS

Ventex Inc. certifies that the model 2590 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings seal applies to Wind-Driven Rain and Air Performance ratings.

PRESSURE DROP- 2590

FIGURE 5.5, TEST SIZE 48" x 48"



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