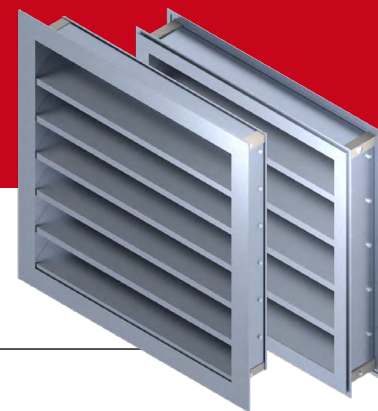


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FIXED ALUMINUM LOUVERS STORMPROOF



STANDARD CONSTRUCTION

FRAME	EXTRUDED 6063-T6 ALUMINUM, 0.081" (2.1 MM) THICK
BLADES	EXTRUDED 6063-T6 ALUMINUM, 0.072" (1.8 MM) THICK
BLADE ANGLE	45°
BLADE SPACING	± 5" (127 MM)
BLADE FASTENING	FASTENED TO FRAME WITH SCREWS
BIRD SCREEN	GALVANIZED 1/2" X 1/2" X 0.047" (12.7 MM X 12.7 MM X 1.2 MM)
FINISH	MILL
SINGLE SECTION	MIN. 6" (152 MM) X 8" (203 MM) MAX. 60" (1 524 MM) X 234" (5 944 MM)
MULTIPLE SECTIONS	VARIOUS CONFIGURATIONS AVAILABLE

PERFORMANCE: 48" X 48" SECTION

FREE AREA	7.41 FT ² (0.688 M ²)
PERCENTAGE OF FREE AREA	47%
BEGINNING POINT OF WATER PENETRATION	576 FT/MIN (2.92 M/S)
PRESSURE DROP AT BEGINNING POINT OF WATER PENETRATION	0.034" W.G. (8.5 PA)

NOTE: Louvers tested with bird screen installed

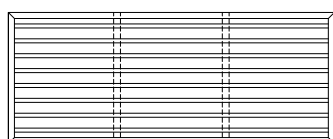
AVAILABLE OPTIONS

FRAME	INSERTION TYPE, 1/8" (3 MM) THICK
BLADES	1/8" (3 MM) THICK
BIRD SCREEN	GALVANIZED 1/4" X 1/4" (6.35 MM X 6.35 MM) GALVANIZED 1" X 1" (25.4 MM X 25.4 MM) EXPANDED ALUMINUM 1/2" - 051F (12.7 MM)
INSECT SCREEN	FASTENED REMOVABLE
BLANK-OFF PANEL	NON INSULATED INSULATED AND FASTENED (WITH THERMAL BARRIER) INSULATED AND REMOVABLE (WITH THERMAL BARRIER)
ACCESS LOUVER (DOOR)	MOUNTED ON HINGES

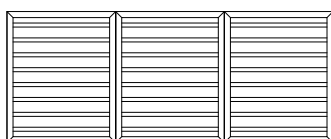
FINISHES AVAILABLE

ANODIZED	CLEAR COLOR
PAINT	LECHLER ISOLACK (5-YEAR WARRANTY) DURANAR OR INTERPON D 2000 (20-YEAR WARRANTY) DURANAR XL OR INTERPON D 3000 (30-YEAR WARRANTY)

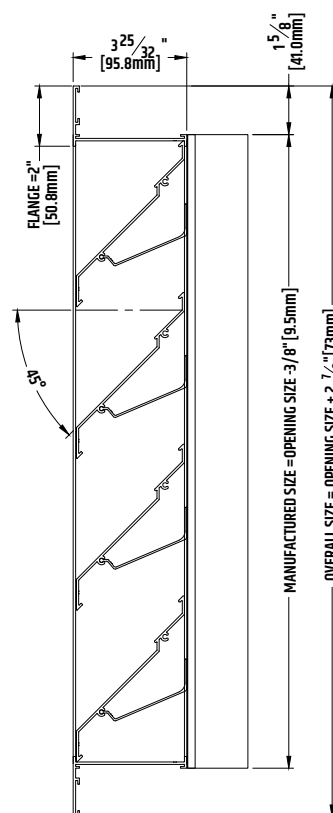
LOUVERS WITH UNINTERRUPTED BLADE LINE



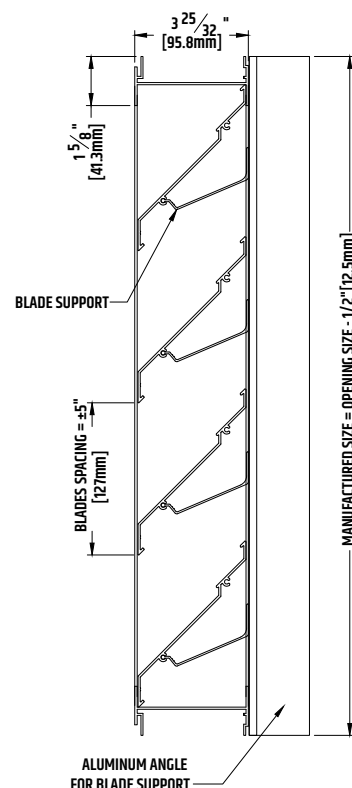
LOUVERS WITH VISIBLE MULLIONS



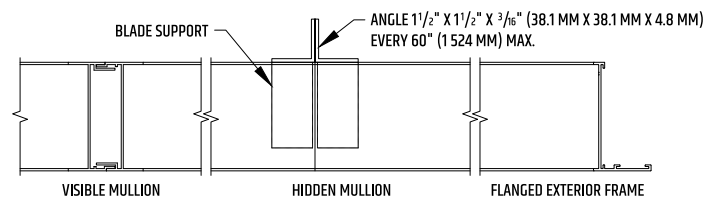
TW-445



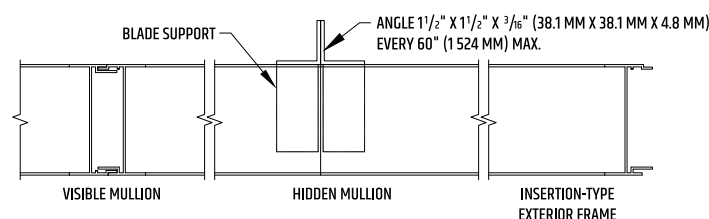
HW-445



EXTERIOR FRAME OF FLANGED LOUVER



EXTERIOR FRAME OF INSERTED LOUVER (NO FLANGE)

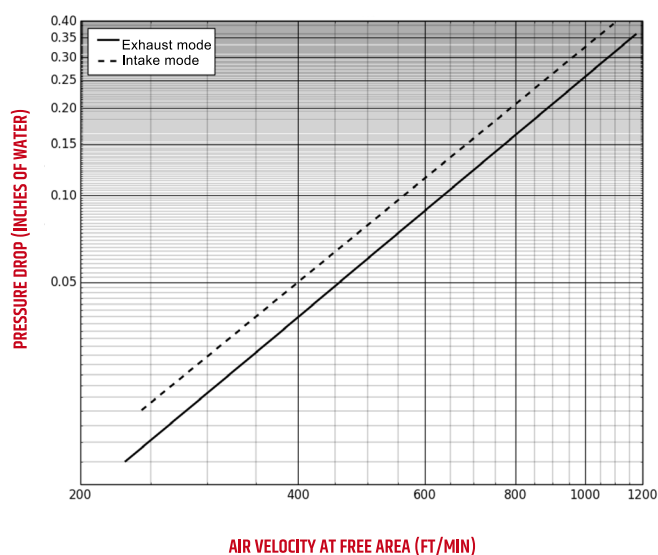


LOUVER FREE AREA (FT²)

HEIGHT (IN)	WIDTH (IN)										
	12	18	24	30	36	42	48	54	60	66	72
12	0.19	0.30	0.41	0.51	0.62	0.73	0.83	0.94	1.04	1.15	1.26
18	0.46	0.71	0.96	1.21	1.47	1.72	1.97	2.22	2.48	2.73	2.98
24	0.72	1.12	1.52	1.92	2.31	2.71	3.11	3.51	3.91	4.31	4.70
30	0.97	1.50	2.04	2.57	3.10	3.64	4.17	4.71	5.24	5.78	6.31
36	1.20	1.86	2.52	3.18	3.84	4.51	5.17	5.83	6.49	7.15	7.81
42	1.46	2.26	3.07	3.87	4.68	5.48	6.29	7.09	7.90	8.70	9.51
48	1.72	2.66	3.61	4.56	5.51	6.46	7.41	8.35	9.30	10.25	11.20
54	1.94	3.01	4.09	5.16	6.23	7.31	8.38	9.45	10.53	11.60	12.67
60	2.17	3.37	4.57	5.77	6.97	8.17	9.37	10.57	11.77	12.97	14.17
66	2.46	3.81	5.17	6.53	7.89	9.24	10.60	11.96	13.32	14.67	16.03
72	2.69	4.17	5.66	7.15	8.63	10.12	11.61	13.09	14.58	16.06	17.55
78	2.91	4.53	6.14	7.75	9.36	10.97	12.59	14.20	15.81	17.42	19.03
84	3.14	4.88	6.62	8.36	10.10	11.84	13.58	15.31	17.05	18.79	20.53
90	3.38	5.24	7.11	8.98	10.85	12.71	14.58	16.45	18.31	20.18	22.05
96	3.66	5.69	7.71	9.74	11.76	13.79	15.81	17.84	19.86	21.89	23.91

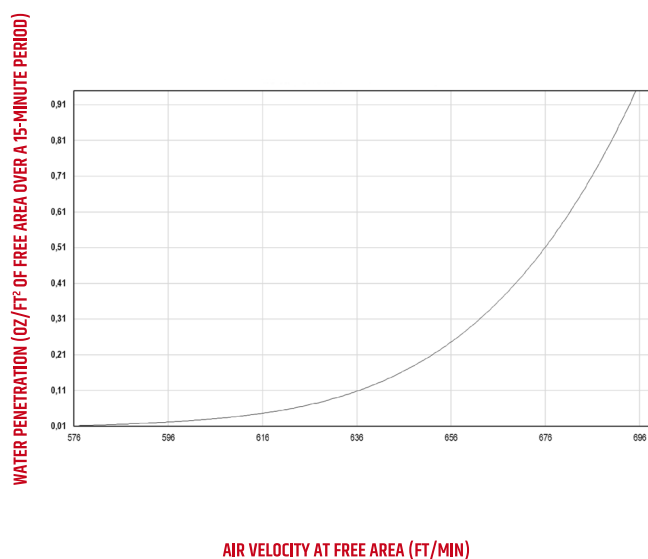
NOTE: Louvers tested with bird screen installed

PRESSURE DROP VS AIR VELOCITY MODEL TW-445



WATER PENETRATION MODEL TW-445

BEGINNING POINT OF WATER PENETRATION AT 576 FT/MIN



NOTE: Water penetration and pressure drop tests performed by Air-Ins Laboratories, in accordance with the AMCA 500 standard.

CALCULATION METHOD FOR REQUIRED FREE AREA

To determine the free area required for a louver:

- > Step 1: Divide the required flow (CFM) by the projected velocity at free area.
- > Step 2: Choose the desired louver size from the free area table that meets the minimum requirements.
- > Step 3: Compare specifications for certified water penetration and pressure drop.

Example for intake:

5 000 CFM flow at 500 FT/MIN :

$$\text{Min. free area} = \frac{\text{required CFM}}{\text{maximum projected velocity}^*} = \frac{5\,000}{500} = 10 \text{ ft}^2$$

Select a louver measuring 42" x 72" with 10.12 ft² of free area

* Should not exceed beginning point of water penetration speed.

Trolec reserves the right to modify these specifications without notice.