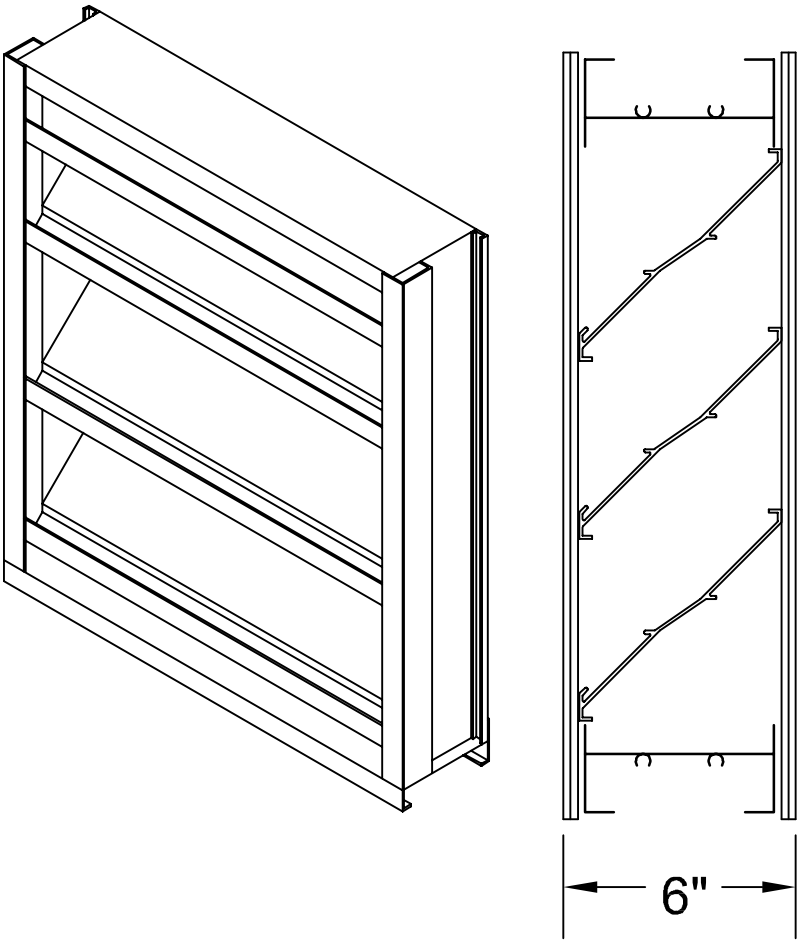
AIR-RITE MANUFACTURING

SUBMITTAL / FABRICATATION DETAIL: EXTRUDED ALUMINUM LOUVER
MODEL: LE-2

Application
The LE-2 drainable blade louver is designed to prevent water penetration in non-wind driven rain applications by collecting water in frame and blade gutters and channeling it into downspouts and away from airflow paths.



Standard Construction
Material: Mill finish 6063-T5 extruded aluminum.

Frame: 6" deep x 0.081" thick channel.

Blades: 45 x 0.081" thick drainable style.

Screen: ½" x 0.063" expanded and flattened aluminum.

Mullion: Visible.

Minimum Size: 12" x 12"

Maximum Size: Single section: 60" x 120"
Multiple Sections: Unlimited

Options
- ☐ **Factory Finish:** Mill 6063-T5 extruded aluminum.
- ☐ High Performance Kynar Two Coat System.
- ☐ Baked Enamel
- ☐ Clear or Color Anodized, Class 1
- ☐ Powder Coat.

QTY.	SIZE

AMCA Tested

Union "Blue Label" Made.

See Sheet 2A for Performance Data.

PROJECT NAME:
W/O #:
TAG #:
CONTRACTOR:
SUBMITTED BY:

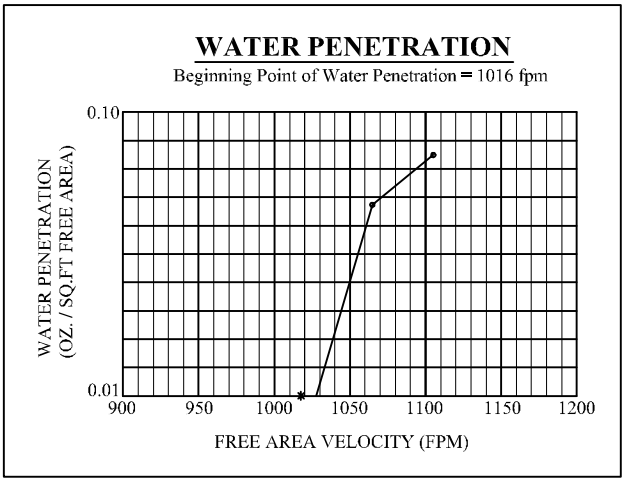
PAGE: LE-2

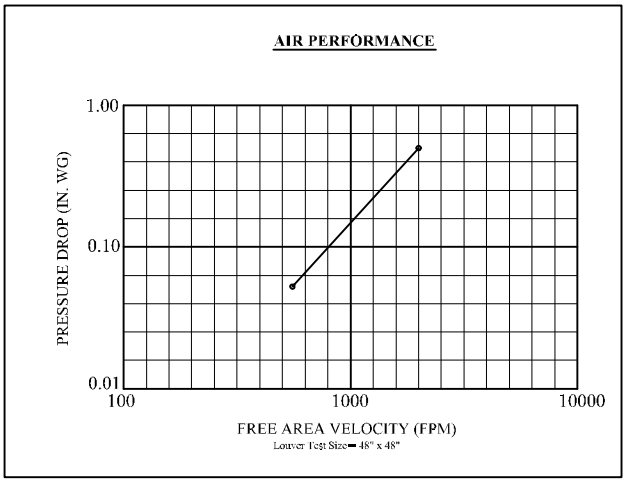
AIR-RITE MANUFACTURING

FREE AREA IN SQUARE FEET

WIDTH (INCHES)

	12	18	24	30	36	42	48	54	60	66	72
12	.37	.63	.88	1.11	1.35	1.6	1.84	2.08	2.32	2.56	2.81
18	.52	.84	1.16	1.48	1.8	2.13	2.45	2.77	3.1	3.52	3.74
24	.77	1.258	1.73	2.22	2.71	3.19	3.67	4.16	4.64	5.13	5.61
30	1.02	1.67	2.26	2.96	3.61	4.25	4.9	5.54	6.19	6.84	7.48
36	1.28	2.09	2.82	3.7	4.51	5.32	6.12	6.93	7.74	8.54	9.35
42	1.53	2.5	3.39	4.44	5.41	6.38	7.35	8.362	9.28	10.25	11.22
48	1.8	2.92	3.95	5.18	6.31	7.44	8.61	9.7	10.83	11.96	13.09
54	2.05	3.34	4.52	5.92	7.21	8.5	9.8	11.09	12.38	13.67	14.96
60	2.3	3.75	5.08	6.65	8.11	9.57	11.02	12.47	13.93	15.38	16.83
66	2.56	4.17	5.65	7.4	9.02	10.63	12.25	13.86	15.47	17.09	18.7
72	2.81	4.59	6.21	8.14	9.92	11.69	13.47	15.25	17.02	18.8	20.57
78	3.07	5.01	6.88	8.88	10.82	12.76	14.69	16.63	18.57	20.51	22.44
84	3.32	5.42	7.34	9.62	11.72	13.82	15.92	18.02	20.12	22.21	24.31
90	3.58	5.84	7.91	10.36	12.62	14.88	17.14	19.4	21.66	23.92	26.18
96	3.84	6.26	8.48	11.1	13.52	15.95	18.37	20.81	23.21	25.63	28.05





Water Penetration

AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab condtions. Air-Rite Mfg. recommends that intake louvers are selected with a reasonable margin of safety below the beginning point of water penetration in order to avoid unwanted penetration during severe storm conditions.

Selection Criteria

Follow the steps listed below to calculate the louver size needed to satisfy the required air volume while minimizing the adverse effects of water penetration and pressure loss.

1. Determine the Free Area Velocity (FAV) at the maximum allowable pressure loss using the *Pressure Loss* chart to the left. While job conditions vary, typically, the maximum allowable pressure loss should not exceed 0.15 in w.g., and the FAV for 0.15 in wg. pressure loss is listed on the front page of this louver model.

2. Intake Applications: If the FAV at the Beginning Point of Water Penetration shown to the left is less that the FAV from step 1, then use the FAV at the Beginning Point of Water Penetration in step 3, otherwise use the FAV from step 1.

   Exhaust Applications: Use the FAV from step 1 in step 3.

3. Calculate the total louver square footage required using the following equation.

   _____ cfm / _____ fpm = _____ ft^2
   Required Air Volume / FAV / Required Louver (Free-Area) Size In ft^2

4. Using the Free Area chart above, select a louver width and height that yields a free area ft^2 greater than or equal to the required louver size calculated in step 3.

AIR-RITE MANUFACTURING

MODEL: LE-2

STANDARD LOUVER PRICING

EXTRUDED ALUMINUM LOUVERS

WIDTH

HEIGHT	12	18	24	30	36	42	48	54	60	66	72
12	171	204	228	262	284	327	358	401	423	473	495
18	226	262	293	344	375	416	452	490	531	557	639
24	257	300	339	396	432	483	526	603	636	723	776
30	305	370	418	490	528	600	663	737	804	891	936
36	336	411	466	538	596	680	752	826	888	1001	1076
42	387	476	548	629	694	802	893	987	1080	1155	1217
48	416	512	591	677	749	881	934	1056	1128	1220	1294
54	466	581	668	776	852	999	1080	1215	1328	1392	1484
60	492	617	701	812	903	1049	1148	1282	1404	1484	1560
66	550	694	788	918	1023	1200	1304	1481	1570	1673	1781
72	581	725	833	970	1076	1258	1366	1560	1666	1762	1877
78	644	804	922	1078	1200	1390	1527	1716	1848	1947	2064
84	670	843	960	1116	1253	1455	1592	1793	1920	2036	2144
90	725	917	1036	1234	1361	1577	1728	1935	2076	2182	2307
96	744	934	1064	1287	1419	1640	1796	1992	2148	2271	2424

WHEN ORDERING GIVE WIDTH DIMENSION FIRST THEN HEIGHT (W x H).
LOUVERS ARE UNDERSIZED 1/4" EACH DIMENSION.
LOUVERS INCLUDE MESH BIRDSCREEN STANDARD.
MILL FINISH & BOX FRAME STANDARD.
CONCEALED BLADE SUPPORTS ON 60" OR WIDER.
MINIMUM SIZE – 8" x 12".
MAXIMUM SIZE 1-SECTION 72" x 96".

EXTRUDED ALUMINUM #6063-T5
.094 THICKNESS ON ALL PARTS
APPROX. 6" DEEP FRAME.

LE-2S = STANDARD EXTRUDED LOUVER
LE-2D = DRAINABLE EXTRUDED LOUVER

LOUVER TYPE & ACCESSORIES	ADD TO LIST
STRAIGHT BLADE	NO ADD
BOX FRAME	STANDARD
FLANGE FRAME	LIST x 1.20
BIRDSCREEN	STANDARD
INSECT SCREEN	LIST x 1.10
SPECIAL FRAME OR SILLS	CONSULT FACTORY

ADD PRIME COAT & ENAMEL ADDERS TOGETHER WHEN ORDERING ENAMEL FINISHES
POWDER COAT FINISH — ADD 50% (MIN. $95.00 NET)

SPECIAL FINISHES — CONSULT FACTORY (KYNAR FINISHES, ANODIZED FINISHES)
WELDED CONSTRUCTION — CONSULT FACTORY

CALL FOR FACTORY QUOTE ABOVE $5,000.00 LIST
ADD 5-DAYS TO LEAD TIMES FOR PRIME COAT & ENAMEL FINISHES