

# Model: 436-SD

## Extruded Aluminum Louver

### APPLICATION:

**MODEL 436-SD** is an extruded aluminum louver having 60% Free Area and built -in drains in the jambs to efficiently carry water away from the face of the louver.

**60% Free Area**

### STANDARD CONSTRUCTION:

**Frame:** Heavy gauge 4" x .081" thick 6063T5 extruded aluminum.

**Blade:** 36° Drainable design .081" thick 6063T5 extruded aluminum. Blades are spaced at 3.25" apart.

**Birdscreen:** Galvanized Steel

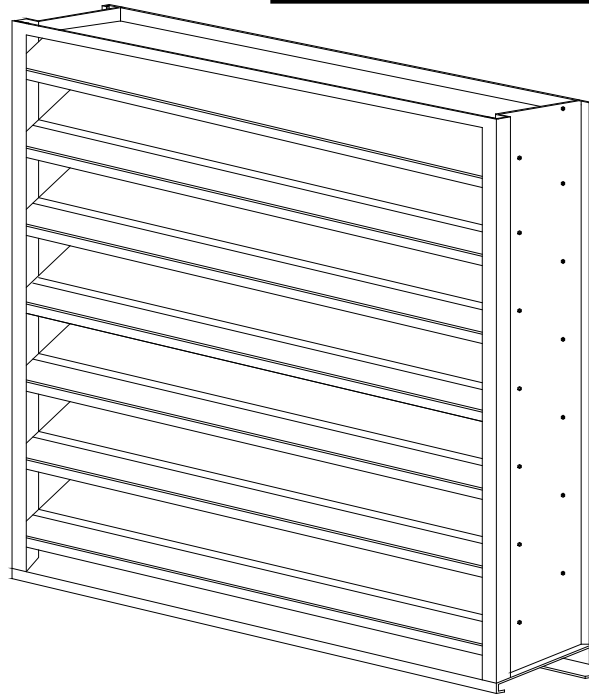
### MINIMUM SIZE:

12" w X 12" h

### MAXIMUM SIZE:

84" w X 120" h Single Section

Unlimited sizes with multi-sections



### OPTIONS:

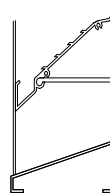
- Insect Screen
- Flanged Frame
- Mounting Sleeves
- Extended Sill
- Enamel Finish
- Kynar Finish
- Anodized Finish

### FEATURES:

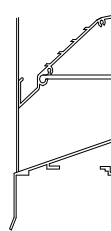
- 60% Free Area
- Published performance ratings based on testing in accordance with AMCA Standard 500-L

### Frame Styles

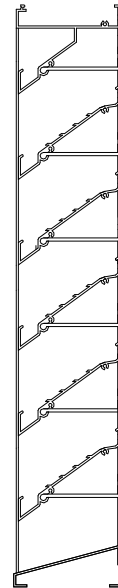
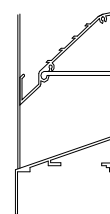
Flush Box



Extended Sill



Flanged



Leader certifies that the model 436 louver shown here is licensed to bear the AMCA seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication and comply with the requirements of the AMCA certified ratings program. The AMCA certified ratings seal applies to air performance rating and water penetration rating.

**Note: All 436-SD louvers are built 1/4" under size both directions unless ordered actual size.**

**LEADER**  
Dampers & Louvers

P.O. Box 40913  
Nashville, TN 37204  
www.leaderindustries.com  
A Division of Leader Industries, Inc.



# Free Area Chart For 436-SD

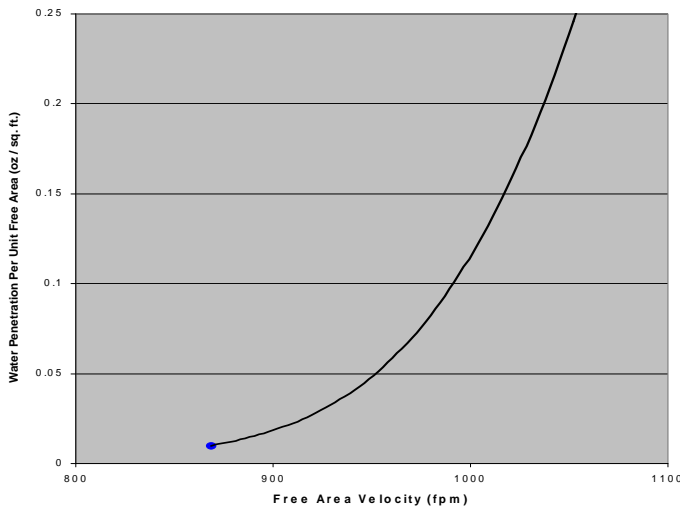
Width in Inches

	12.00	18.00	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	78.00	84.00
H E I G H T	12	0.39	0.63	0.87	1.12	1.36	1.61	1.85	2.09	2.34	2.58	2.82	3.07
	18	0.67	1.10	1.52	1.94	2.37	2.79	3.21	3.64	4.06	4.49	4.91	5.33
	24	0.93	1.51	2.10	2.68	3.27	3.85	4.44	5.02	5.61	6.20	6.78	7.37
	30	1.18	1.93	2.67	3.41	4.16	4.90	5.65	6.39	7.14	7.88	8.62	9.37
	36	1.43	2.34	3.24	4.14	5.05	5.95	6.85	7.76	8.66	9.57	10.47	11.37
	42	1.67	2.73	3.78	4.83	5.89	6.94	7.99	9.05	10.10	11.16	12.21	13.26
	48	1.94	3.16	4.39	5.61	6.83	8.05	9.28	10.50	11.72	12.95	14.17	15.39
	54	2.24	3.66	5.07	6.48	7.90	9.31	10.73	12.14	13.55	14.97	16.38	17.79
	60	2.52	4.10	5.69	7.27	8.86	10.44	12.03	13.62	15.20	16.79	18.37	19.96
	66	2.77	4.51	6.26	8.00	9.75	11.49	13.24	14.98	16.73	18.47	20.22	21.96
	I N C H E S	72	3.02	4.92	6.83	8.73	10.64	12.54	14.44	16.35	18.25	20.16	22.06
		78	3.24	5.29	7.33	9.37	11.42	13.46	15.51	17.55	19.59	21.64	23.68
84		3.53	5.75	7.98	10.20	12.42	14.65	16.87	19.09	21.32	23.54	25.77	
90		3.81	6.22	8.62	11.03	13.43	15.83	18.24	20.64	23.04	25.45	27.85	
96		4.10	6.68	9.27	11.85	14.43	17.02	19.60	22.19	24.77	27.35	29.94	
102		4.36	7.10	9.85	12.59	15.34	18.08	20.83	23.57	26.32	29.06	31.81	
108	4.61	7.51	10.42	13.32	16.23	19.13	22.03	24.94	27.84	30.75	33.65		
114	4.86	7.92	10.99	14.05	17.11	20.18	23.24	26.31	29.37	32.43	35.50		
120	5.10	8.31	11.53	14.74	17.95	21.17	24.38	27.60	30.81	34.02	37.24		



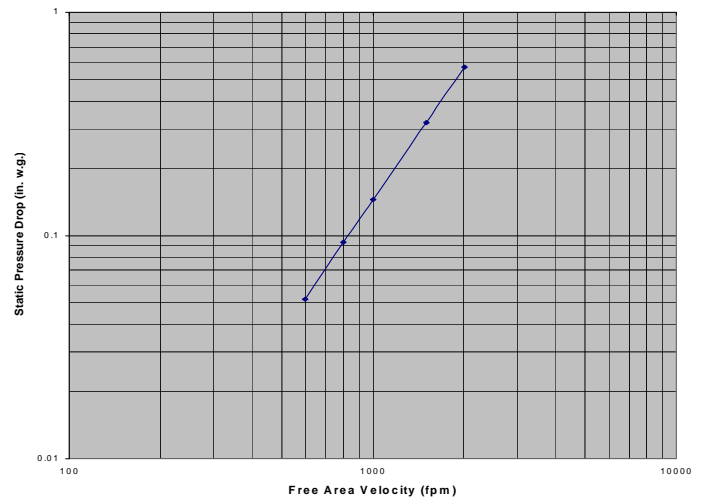
Leader Industries Inc. certifies that the Model 436-SD - Horizontal Blade Louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings.

Water Penetration



Beginning of water penetration per AMCA Publication 511 Subsection C3.2 based on AMCA measured free area: 868.8 fpm. Test duration was 15 min and test size was 48" x 48".

Airflow Resistance



The performance shown is done at standard air density, 0.075lbs./ft. The pressure drop data applies to the intake side of the test unit that was 48" x 48" only.



P.O. Box 40913  
 Nashville, TN 37204  
[www.leaderindustries.com](http://www.leaderindustries.com)  
 A Division of Leader Industries, Inc.

# Model 436-SD Extruded Aluminum Louver

## CFM and Free Area Selection Chart

		Louver Width (in.)												
		12	18	24	30	36	42	48	54	60	66	72	78	84
Louver Height (in.)	12	0.39 293	0.63 473	0.87 653	1.12 840	1.36 1020	1.61 1208	1.85 1388	2.09 1568	2.34 1755	2.58 1935	2.82 2115	3.07 2303	3.31 2483
	18	0.67 503	1.10 825	1.52 1140	1.94 1455	2.37 1778	2.79 2093	3.21 2408	3.64 2730	4.06 3045	4.49 3368	4.91 3683	5.33 3998	5.76 4320
	24	0.93 698	1.51 1133	2.10 1575	2.68 2010	3.27 2453	3.85 2888	4.44 3330	5.02 3765	5.61 4208	6.20 4650	6.78 5085	7.37 5528	7.95 5963
	30	1.18 885	1.93 1448	2.67 2003	3.41 2558	4.16 3120	4.90 3675	5.65 4238	6.39 4793	7.14 5355	7.88 5910	8.62 6465	9.37 7028	10.11 7583
	36	1.43 1073	2.34 1755	3.24 2430	4.14 3105	5.05 3788	5.95 4463	6.85 5138	7.76 5820	8.66 6495	9.57 7178	10.47 7853	11.37 8528	12.28 9210
	42	1.67 1253	2.73 2048	3.78 2835	4.83 3623	5.89 4418	6.94 5205	7.99 5993	9.05 6788	10.10 7575	11.16 8370	12.21 9158	13.26 9945	14.32 10740
	48	1.94 1455	3.16 2370	4.39 3293	5.61 4208	6.83 5123	8.05 6038	9.28 6960	10.50 7875	11.72 8790	12.95 9713	14.17 10628	15.39 11543	16.62 12465
	54	2.24 1680	3.66 2745	5.07 3803	6.48 4860	7.90 5925	9.31 6983	10.73 8048	12.14 9105	13.55 10163	14.97 11228	16.38 12285	17.79 13343	19.21 14408
	60	2.52 1890	4.10 3075	5.69 4268	7.27 5453	8.86 6645	10.44 7830	12.03 9023	13.62 10215	15.20 11400	16.79 12593	18.37 13778	19.96 14970	21.54 16155
	66	2.77 2078	4.51 3383	6.26 4695	8.00 6000	9.75 7313	11.49 8618	13.24 9930	14.98 11235	16.73 12548	18.47 13853	20.22 15165	21.96 16470	23.71 17783
	72	3.02 2265	4.92 3690	6.83 5123	8.73 6548	10.64 7980	12.54 9405	14.44 10830	16.35 12263	18.25 13688	20.16 15120	22.06 16545	23.96 17970	25.87 19403
	78	3.24 2430	5.29 3968	7.33 5498	9.37 7028	11.42 8565	13.46 10095	15.51 11633	17.55 13163	19.59 14693	21.64 16230	23.68 17760	25.72 19290	27.77 20828
84	3.53 2648	5.75 4313	7.98 5985	12.20 9150	12.42 9315	14.65 10988	16.87 12653	19.09 14318	21.32 15990	23.54 17655	25.77 19328	27.99 20993	30.21 22658	
90	3.81 2858	6.22 4665	8.62 6465	11.03 8273	13.43 10073	15.83 11873	18.24 13680	20.64 15480	23.04 17280	25.45 19088	27.85 20888	30.26 22695	32.66 24495	
96	4.10 3075	6.68 5010	9.27 6953	11.85 8888	14.43 10823	17.02 12765	19.60 14700	22.19 16643	24.77 18578	27.35 20513	29.94 22455	32.52 24390	35.10 26325	
102	4.36 3270	7.10 5325	9.85 7388	12.59 9443	15.34 11505	18.08 13560	20.83 15623	23.57 17678	26.32 19740	29.06 21795	31.81 23858	34.55 25913	37.30 27975	
108	4.61 3458	7.51 5633	10.42 7815	13.32 9990	16.23 12173	19.13 14348	22.03 16523	24.94 18705	27.84 20880	30.75 23063	33.65 25238	36.56 27420	39.46 29595	
114	4.86 3645	7.92 5940	10.99 8243	14.05 10538	17.11 12833	20.18 15135	23.24 17430	26.31 19733	29.37 22028	32.43 24323	35.50 26625	38.56 28920	41.62 31215	
120	5.10 3825	8.31 6233	11.53 8648	14.74 11055	17.95 13463	21.17 15878	24.38 18285	27.60 20700	30.81 23108	34.20 25650	37.24 27930	40.45 30338	43.66 32745	

This Table has been developed to assist in application and selection of these louvers. Two numbers are shown for each louver size. The upper number represents the sq. ft. of louver free area for each louver size. The lower number shows CFM of air flow permitted when selecting an intake louver at the point of zero water penetration.

Pressure drop when using this selection Guide for an intake louver will be .055 in. W.G. Louvers may be selected at other operating points on the Performance Curves if desired using the formula:

$$\text{CFM} = \text{Free Area (sq. ft.)} \times \text{Free Area Velocity (FPM)}$$