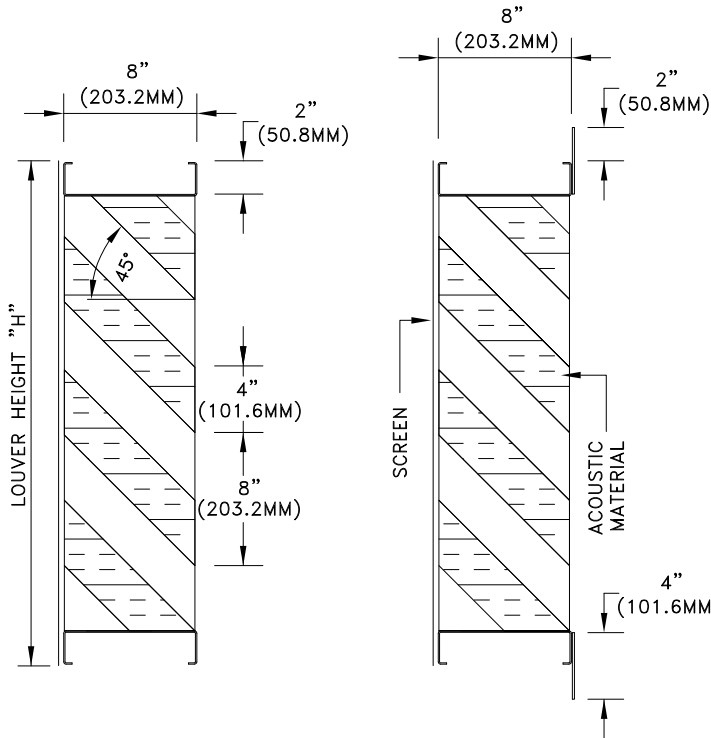


HORIZONTAL SECTION

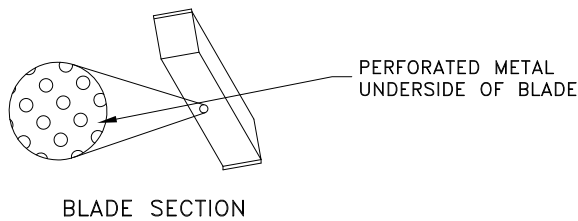


ALUMINUM  
ACOUSTIC LOUVER  
AC-845-AC    ACF-845-AC



AC-845-AC  
VERTICAL SECTION

ACF-845-AC  
VERTICAL SECTION



STANDARD SPECIFICATIONS

- CONST. FRAME - FORMED ALUMINUM, WELDED ASSEMBLY
- 8" X 2" X .081" (203.2MM X 50.8MM X 2.1MM) CHANNEL, BUTT CORNERS
- BLADES - FACE: 8" X .081" (203.2MM X 2.1MM) SET AT 45°, 8" (203.2MM) SPACING
- BACK: .032" (.81MM) PERFORATED METAL WITH .125" (3.2MM) DIA. HOLES ON .219" (5.6MM) STAGGERED CENTERS
- ACOUSTIC MATERIAL - 8 LB DENSITY MINERAL WOOL
- SCREEN - .5" X .5", 18 GAUGE (12.7MM X 12.7MM) GALVANIZED, SCREW FASTENED
- FINISH SIZE - MILL ALUMINUM
- MINIMUM 16"W X 20"H (406.4MM X 508MM)
- MAXIMUM SECTION WIDTH 72" (1828.8MM)
- MAXIMUM SECTION HEIGHT 120" (3048MM)
- MAXIMUM SECTION SIZE 60 SQ. FT.

OPTIONS

- FRAME - ACF-ADD FLANGE FRAME 2" (101.6MM) USING A 4" X .125" (101.6MM X 3.2MM) FLAT BAR
- SCREEN - AS PER REQUEST
- FINISH - BAKED ENAMEL AND OTHERS

FREE AREA CHARTS AVAILABLE UPON REQUEST

TECHNICAL NOTES

- MAX. REC. INTAKE VEL. - 800 FPM THROUGH FREE AREA
- SHIPPING WEIGHT - APPROX. 8 LBS./SQ. FT.

LOUVERS ARE MANUFACTURED .5" (12.7MM) SMALLER THAN ORDERED SIZE UNLESS EXACT DIMENSIONS ARE STATED.

\* FOR MORE INFORMATION, CONTACT OUR FACTORY \*

NOTES

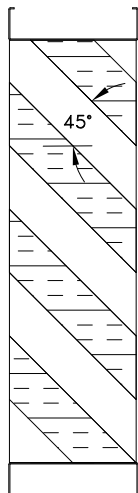
APPROVAL

DATE:  
PROJECT:  
ENGINEER:  
CUSTOMER:  
DISTRIBUTOR:

AC-845-ACOUSTIC



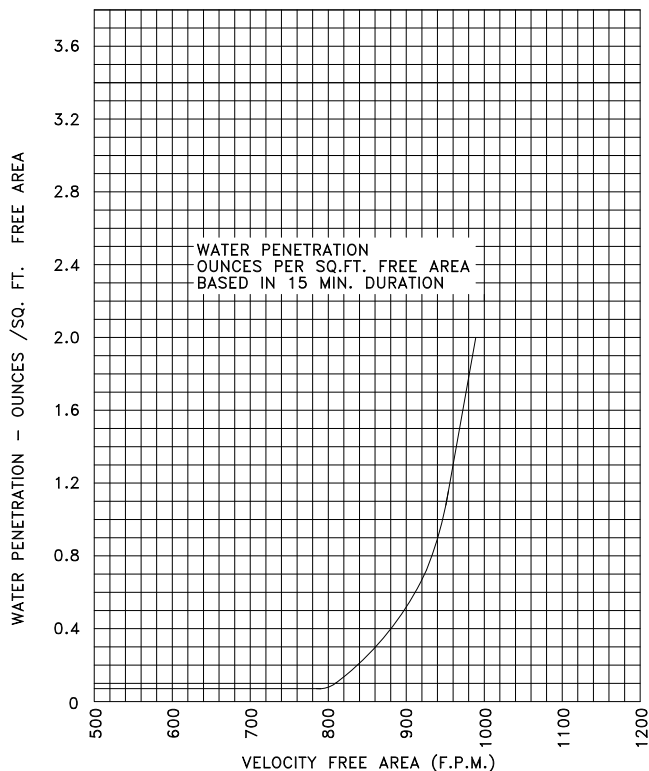
# ALUMINUM ACOUSTIC LOUVER AC-845-AC



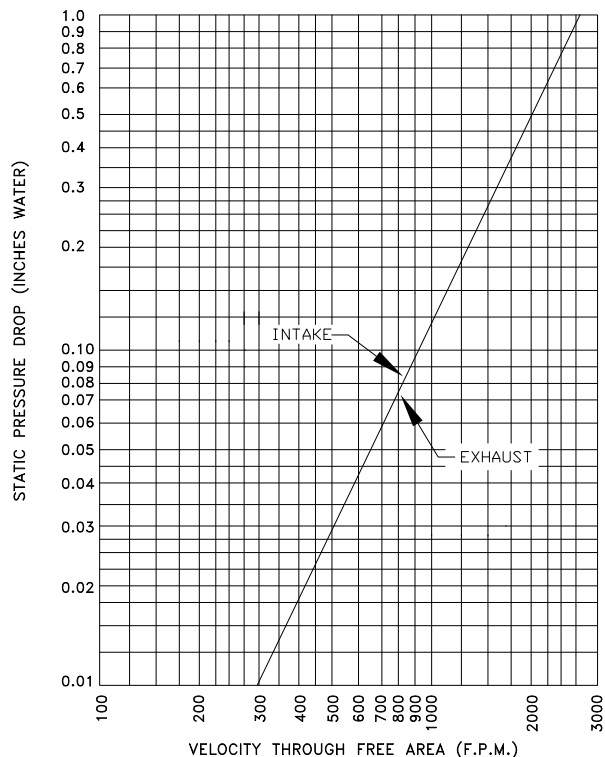
TEST  
CONDITIONS:  
A 48" X 48"  
LOUVER WAS  
USED FOR  
THE TEST  
AT STANDARD  
AND  
OPERATING  
TEMPERATURE  
RANGE OF  
65°F - 85°F,  
AND  
15 MINUTES  
TEST DURATION  
WATER PENETRATION

		WIDTH (INCHES)										
		12	18	24	30	36	42	48	54	60	66	72
HEIGHT (INCHES)	20	0.24	0.40	0.56	0.72	0.88	1.04	1.20	1.36	1.52	1.68	1.84
	24	0.33	0.55	0.77	0.99	1.21	1.43	1.65	1.87	2.09	2.31	2.53
	28	0.42	0.70	0.98	1.26	1.54	1.82	2.10	2.37	2.65	2.93	3.21
	32	0.51	0.85	1.19	1.53	1.89	2.25	2.54	2.88	3.22	3.56	3.90
	36	0.60	1.00	1.40	1.79	2.19	2.59	2.99	3.39	3.79	4.18	4.58
	40	0.69	1.15	1.60	2.06	2.52	2.98	3.44	3.89	4.35	4.81	5.27
	44	0.78	1.30	1.81	2.33	2.85	3.36	3.88	4.40	4.92	5.44	5.95
	48	0.87	1.44	2.02	2.60	3.18	3.75	4.33	4.91	5.48	6.06	6.64
	52	0.96	1.59	2.23	2.87	3.50	4.14	4.78	5.41	6.05	6.69	7.32
	56	1.05	1.74	2.44	3.14	3.83	4.53	5.22	5.92	6.62	7.31	8.01
	60	1.14	1.89	2.65	3.40	4.16	4.92	5.67	6.43	7.18	7.94	8.70
	64	1.23	2.04	2.89	3.67	4.49	5.30	6.12	6.93	7.75	8.57	9.38
	68	1.32	2.19	3.07	3.94	4.82	5.69	6.57	7.44	8.32	9.19	10.07
	72	1.40	2.34	3.27	4.21	5.14	6.08	7.01	7.95	8.88	9.82	10.75
	76	1.49	2.49	3.48	4.48	5.47	6.46	7.46	8.46	9.45	10.44	11.44
	80	1.58	2.64	3.69	4.75	5.80	6.85	7.91	8.96	10.02	11.07	12.12
84	1.67	2.79	3.90	5.01	6.13	7.25	8.36	9.47	10.58	11.70	12.81	
88	1.76	2.94	4.11	5.28	6.46	7.63	8.80	9.98	11.15	12.32	13.50	
92	1.85	3.09	4.32	5.55	6.78	8.01	9.25	10.48	11.72	12.95	14.18	
96	1.94	3.23	4.53	5.82	7.11	8.40	9.70	10.99	12.28	13.57	14.87	
100	2.03	3.38	4.74	6.09	7.44	8.79	10.14	11.50	12.85	14.20	15.55	
104	2.12	3.53	4.94	6.36	7.77	9.18	10.59	12.00	13.41	14.83	16.24	
108	2.21	3.68	5.15	6.62	8.10	9.57	11.04	12.51	13.98	15.45	16.94	
112	2.30	3.83	5.36	6.89	8.42	9.95	11.49	13.02	14.55	16.08	17.61	
116	2.39	3.98	5.57	7.16	8.75	10.34	11.93	13.52	15.11	16.70	18.29	
120	2.48	4.13	5.78	7.43	9.08	10.74	12.38	14.03	15.68	17.33	18.98	

FREE AREA TABLE (SQ. FT.)  
RATING INCLUDES THE EFFECT OF A BIRDSCREEN



WATER PENETRATION GRAPH  
800 F.P.M. BEGINNING OF WATER PENETRATION  
(9.09 MPH WIND)



AIR PERFORMANCE GRAPH

THE INFORMATION CONTAINED ON THIS DATA SHEET REMAINS THE PROPERTY OF WESTERN VENTILATION PRODUCTS LTD. AND IS PROTECTED BY COPYRIGHT. WESTVENT AIR PERFORMANCE RATINGS SHOWN ARE BASED ON TESTS MADE BY TECHNICIANS IN OUR TEST LABORATORY.

# WESTVENT ACOUSTIC LOUVER RATINGS

TABLE 1: TRANSMISSION LOSS (TL) IN DECIBELS (dB)

OCTAVE BAND CENTER	1	2	3	4	5	6	7	8
FREQUENCY (HZ)	63	125	250	500	1K	2K	4K	8K
SC-645-AC	6	4	5	7	11	16	12	10
AC-645-AC	6	4	5	7	11	16	12	10
AC-845-AC	7	5	6	8	12	17	13	11
SC-845-AC	7	5	6	9	13	18	15	12
AC-1245-AC	10	6	8	10	15	19	13	12
SC-1245-AC	9	7	8	10	15	19	13	12
SC-1245-5-AC	10	7	6	11	19	30	19	18

TABLE 2: FIELD NOISE REDUCTION (NR) IN DECIBELS (dB)

OCTAVE BAND CENTER	1	2	3	4	5	6	7	8
FREQUENCY (HZ)	63	125	250	500	1K	2K	4K	8K
SC-645-AC	12	10	11	13	17	24	18	16
AC-645-AC	12	10	11	13	17	24	18	16
AC-845-AC	13	11	12	14	18	23	19	17
SC-845-AC	13	11	12	15	19	24	21	18
AC-1245-AC	16	12	14	16	21	25	19	18
SC-1245-AC	15	13	14	16	20	25	19	18
SC-1245-5-AC	14	13	12	17	25	36	25	23

THE ACOUSTIC RATING INDICATED ABOVE ARE RATED IN THE MECHANICAL ENGINEERING ACOUSTIC NOISE UNIT OF THE UNIVERSITY OF ALBERTA IN ACCORDANCE WITH ASTM STANDARD E90-90 AND ASTM C423.

FIELD NOISE RATINGS MIGHT VARY SLIGHTLY DEPENDING ON THE APPLICATION