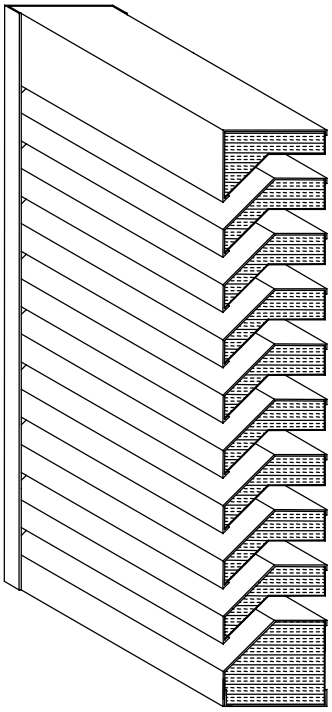
DEPENDABLE PRODUCTS SINCE 1955

ACOUSTICAL LOUVER - Model UFF-12

Design Features – Sound attenuating insulated blades provide multiple functions of weather protection, vision proof design and maximum airborne sound reduction. Sound ratings shown based on sound transmission standards ASTM E90-90 and ASTM E413-87.

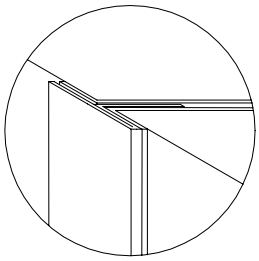
STANDARD CONSTRUCTION

FRAME
12" deep, 16 gauge galvanized steel in style #2
BLADES
Exterior surface – 18 ga. gauge galvanized approx. spacing 12" oc.
Interior surface – 22 ga. gauge galv. perforated fastened to blade underside
SOUND INSULATION
6# density pcf mineral wool
ASSEMBLY
3/16" plated steel rivets exposed to view
MAXIMUM SINGLE SECTION
72"W x 120"H
MINIMUM SIZE
12"W x 16"H
MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others
MULLION
Visible
SCREEN
½" x 19 ga. galvanized screen in frame
UNDERSIZED
1/4" under ordered size unless specified Exact or Actual
FINISH
Mill



OPTIONAL CONSTRUCTION

SPECIFIED MATERIAL – Heavier gauge or in Aluminum or stainless steel
SCREEN: Many styles available please consult screen listing
FINISH – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy or enamel, Kynar, or Powder coat.
SLEEVE AND DUCTWORK – 10 ga. to 20 ga. galvanized steel or aluminum to 30" in length.

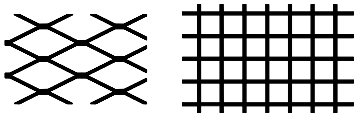


MULLION STYLE

SPECIAL PURPOSE CONSTRUCTION

Fully welded construction
Security bar
Filter racks

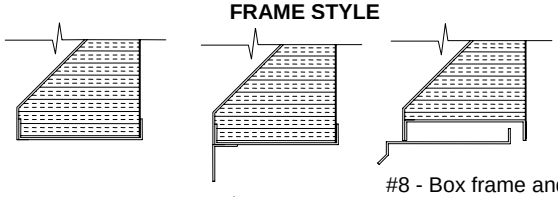
TYPICAL SCREEN STYLES



Expanded Aluminum

Wire Mesh
Standard

FRAME STYLE



#2 - Box Frame

#1- Flange Frame

#8 - Box frame and Sill Extension

DATE	ARCHITECT			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR/DOWCO

Engineering and General Offices

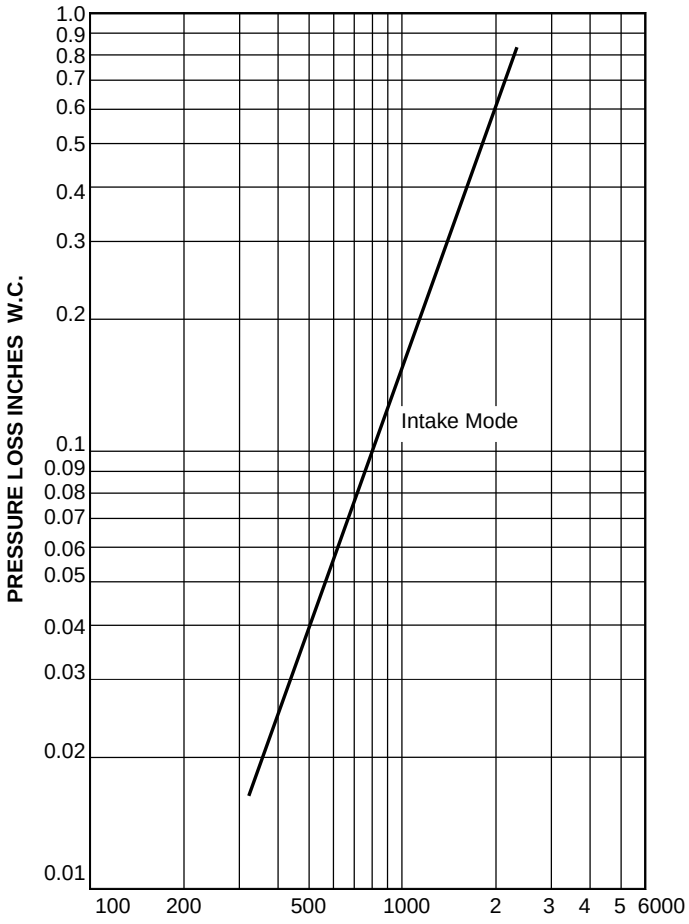
1855 South 54th Avenue, Cicero, Illinois 60804

Phone 708-652-9100 FAX 708-652-9158

UFF-12 PERFORMANCE SPECIFICATIONS

The sound ratings shown are based on sound transmission standards – ASTM E90-90 and ASTM E413-87. All tests were performed at an independent laboratory. The Air Performance and Free Area Calculations are made in accordance with AMCA 500 standards.

AIR PERFORMANCE



CALCULATING PRESSURE LOSS

Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance" graph, knowing the sq. ft. of free area of the louver. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss by utilizing the "air performance" graph.

Octave Bands								
Frequency (hz)	1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000
Free Field Noise Reduction (DB)	12	11	13	17	28	30	27	27
Transmission Loss (DB)	6	5	7	11	22	25	21	21

FREE AREA CALCULATIONS IN SQ. FT.

		WIDTH														
	Inches	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
HEIGHT	12	MINIMUM HEIGHT - 14"														
	18	0.31	0.49	0.67	0.85	1.04	1.22	1.40	1.59	1.77	1.95	2.14	2.32	2.50	2.69	2.87
	24	0.46	0.74	1.01	1.29	1.56	1.84	2.11	2.39	2.67	2.94	3.22	3.49	3.77	4.05	4.32
	30	0.61	0.98	1.35	1.72	2.09	2.46	2.83	3.20	3.56	3.93	4.30	4.67	5.04	5.41	5.78
	36	0.77	1.23	1.69	2.15	2.62	3.08	3.54	4.00	4.46	4.92	5.38	5.85	6.31	6.77	7.23
	42	0.92	1.48	2.03	2.59	3.14	3.69	4.25	4.80	5.36	5.91	6.47	7.02	7.57	8.13	8.68
	48	1.08	1.72	2.37	3.02	3.66	4.31	4.96	5.60	6.25	6.90	7.54	8.19	8.84	9.48	10.13
	54	1.23	1.97	2.71	3.45	4.19	4.93	5.67	6.41	7.15	7.88	8.62	9.36	10.10	10.84	11.58
	60	1.39	2.22	3.05	3.88	4.71	5.54	6.38	7.21	8.04	8.87	9.70	10.53	11.37	12.20	13.03
	66	1.54	2.46	3.39	4.31	5.23	6.16	7.08	8.01	8.93	9.85	10.78	11.70	12.63	13.55	14.47
	72	1.69	2.71	3.73	4.74	5.76	6.77	7.79	8.81	9.82	10.84	11.85	12.87	13.89	14.90	15.92
	78	1.85	2.96	4.06	5.17	6.28	7.39	8.50	9.61	10.71	11.82	12.93	14.04	15.15	16.26	17.36
	84	2.00	3.20	4.40	5.60	6.80	8.00	9.20	10.40	11.60	12.80	14.00	15.21	16.41	17.61	18.81
	90	2.15	3.45	4.74	6.03	7.32	8.61	9.91	11.20	12.49	13.78	15.07	16.37	17.66	18.95	20.24
	96	2.31	3.69	5.08	6.46	7.84	9.23	10.61	12.00	13.38	14.76	16.15	17.53	18.92	20.30	21.69
	102	2.46	3.94	5.41	6.89	8.36	9.84	11.31	12.79	14.27	15.74	17.22	18.69	20.17	21.65	23.12
	108	2.61	4.18	5.75	7.32	8.88	10.45	12.02	13.59	15.15	16.72	18.29	19.86	21.42	22.99	24.56
	114	2.77	4.42	6.08	7.74	9.40	11.06	12.72	14.38	16.04	17.70	19.36	21.02	22.68	24.33	25.99
	120	2.92	4.67	6.42	8.17	9.92	11.67	13.42	15.17	16.92	18.68	20.43	22.18	23.93	25.68	27.43