

Combination Acoustical Louver

ACL73A

7" Deep • Stationary and Adjustable Insulated Blade • Galvanized Steel Louver

STANDARD CONSTRUCTION

FRAME: 16-GA galvanized steel
BLADE: 18-GA galvanized steel stationary blade; 18-GA galvanized steel adjustable blade, double thickness, 1" thick with 8 lb density mineral wool insulation sandwiched between metal skins separated by a thermal break, mechanically fastened together

FACE OF LOUVER: Full head and sill with blade and jambs contained within
LINKAGE: 12-GA zinc plated steel brackets; pivots are 1/2" dia. machined steel, zinc plated and chromate treated, pivots rotate in a celcon bearing; A 5/16" dia. aluminum linkage rod is locked to the pivot by a 1/4" - 20 set screw with an epoxy locking patch

SEALS: Neoprene adhesive applied to blade edges and jambs

SHAFTS: 1/2" dia. plated steel stub

BEARINGS: 1/2" dia. bore oilite bronze flanged sleeve press fit into frame

FINISH: Mill

SCREEN: 1/2" mesh 19-GA galvanized steel

OPTIONS

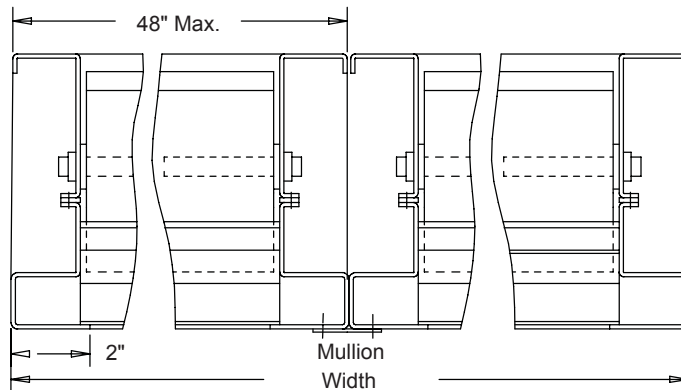
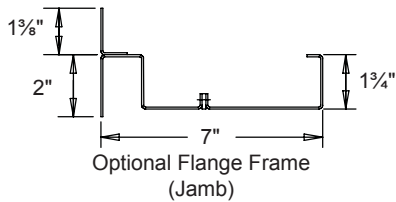
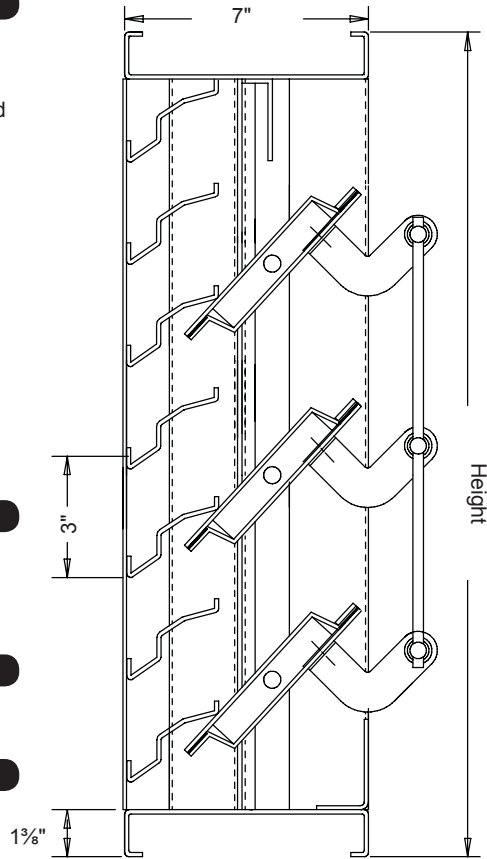
Flange Frame
 Finish - Baked Enamel, Kynar, Anodize
 Screen - 1/2" Flattened Aluminum or Insect Screen
 Actuators - Manual, Electric, Pneumatic

NOTES

1. "A" width and "B" height are opening dimensions. Nominal deductions will be made to the opening sizes given.

LOUVER SIZE

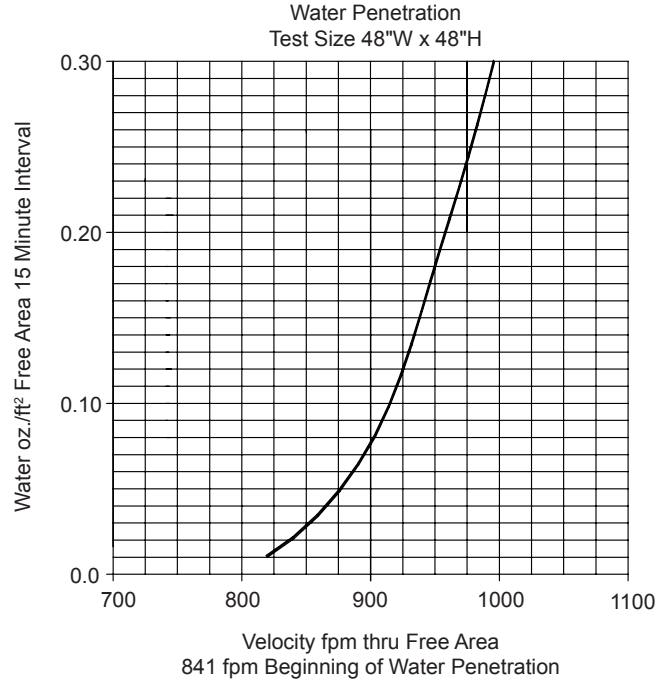
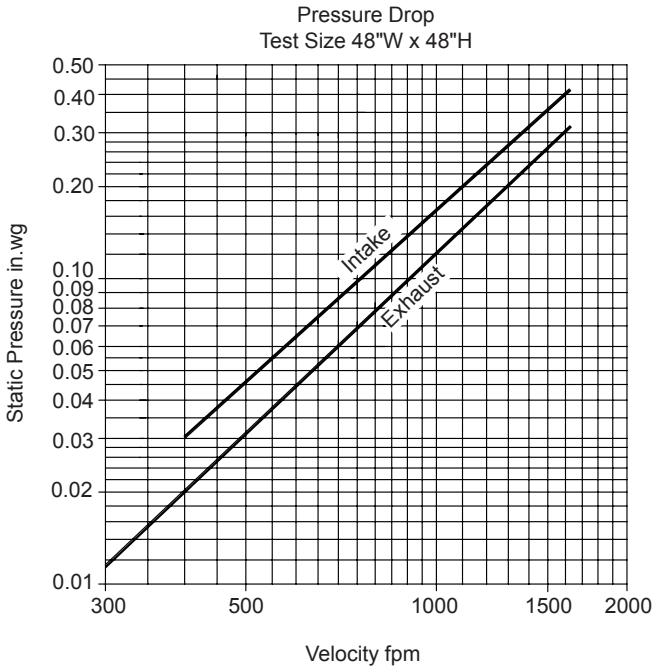
Panels	Min Panel	Max Single Panel
ACL73A	12"W x 14"H	48"W x 96"H



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Free Area sq.ft

		Width						
		12	18	24	30	36	42	48
Height	12	.22	.38	.54	.70	.85	1.01	1.17
	24	.61	1.04	1.47	1.91	2.34	2.77	3.20
	36	1.00	1.70	2.41	3.11	3.82	4.52	5.23
	48	1.39	2.37	3.34	4.32	5.30	6.28	7.26
	60	1.77	3.03	4.28	5.53	6.78	8.04	9.29
	72	2.16	3.69	5.21	6.74	8.27	9.79	11.32
	84	2.55	4.35	6.15	7.95	9.75	11.55	13.35
	96	2.94	5.10	7.08	9.16	11.23	13.30	15.38

Thermal Characteristics
Insulating factors for the standard blade construction:

R - Value = 3.9

U - Factor = .26 BTUH per sq.ft per degree F

Acoustic Values

Octave Band / Hz	Noise Reduction dB
1/63	9
2/125	8
3/250	7
4/500	8
5/1000	10
6/2000	15
7/4000	15
8/8000	16

Attenuation chart below is a combination of the louver sound transmission loss and the reduction of sound energy as a function of distance from the noise source.

Attenuation

		Octave Band Center Frequency Hz							
		1/63	2/125	3/250	4/500	5/1000	6/2000	7/4000	8/8000
Distance From Louver	10'	15	14	13	14	14	17	18	20
	50'	29	28	27	28	28	31	32	34
	100'	35	34	33	34	34	37	38	40
	200'	41	40	39	40	40	43	44	46
	500'	49	48	47	48	48	51	52	54
	1000'	55	54	53	54	54	54	57	60