

XAC-4

ACOUSTICAL DATA

Sound Transmission Class (STC)

This is a numerical two-digit figure rating derived from a standardized performance test made in accordance with ASTM E90-90 (Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions) and ASTM E413-87 (Standard Classification for Determination of Sound Transmission Class). The number is used in evaluating the effectiveness of an assembly in isolating or reducing airborne sound transmission. Acoustic performance ratings have been determined by an AMCA Laboratory.

Outdoor Indoor Transmission Class (OITC)

ASTM E1332 and ASTM E966 procedures are used to determine the OITC rating of building facades relative to ground or air transportation noise.

Full Octave Band Specimen Sound Transmission Loss

Hz	125	250	500	1000	2000	4000
TL	6	4	7	12	14	10
NR	12	10	13	18	20	16

TL = Transmission Loss NR = Free Field Noise Reduction NR = TL + 6 dB

PERFORMANCE DATA

AMCA Standard 500-L provides a reasonable basis for testing and rating louvers. Testing to AMCA Standard 500-L is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq.ft. of water penetration.

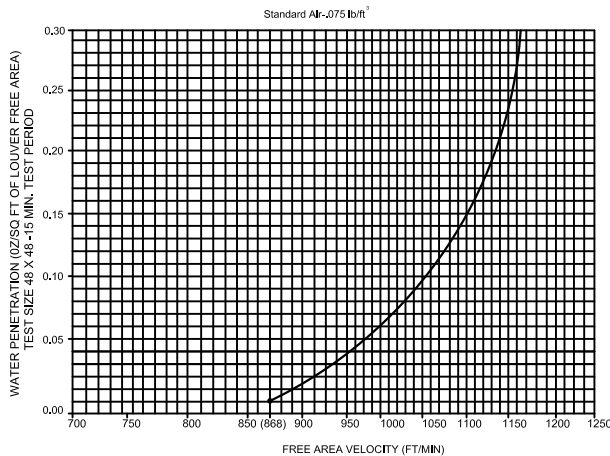
Beginning point of WATER PENETRATION

is

868 fpm

free area velocity at .01 oz. of water penetration

WATER PENETRATION



FREE AREA CHART (SQUARE FEET)

Louver Height Inches	Louver Width In Inches							Louver Height Inches
	12	18	24	30	36	42	48	
12	0.29	0.44	0.59	0.73	0.88	1.02	1.17	12
18	0.44	0.66	0.88	1.1	1.32	1.54	1.76	18
24	0.59	0.88	1.17	1.46	1.76	2.05	2.34	24
30	0.73	1.1	1.46	1.83	2.19	2.56	2.93	30
42	1.02	1.54	2.05	2.56	3.07	3.58	4.1	42
48	1.17	1.76	2.34	2.93	3.51	4.1	4.46	48
54	1.32	1.97	2.63	3.29	3.95	4.61	5.27	54
60	1.46	2.19	2.93	3.66	4.39	5.12	5.85	60
66	1.61	2.41	3.22	4.02	4.83	5.63	6.44	66
72	1.76	2.63	3.51	4.39	5.27	6.14	7.02	72
78	1.9	2.85	3.8	4.75	5.7	6.65	7.61	78
84	2.05	3.07	4.1	5.12	6.14	7.17	8.19	84
90	2.19	3.29	4.39	5.48	6.58	7.68	8.78	90
96	2.34	3.51	4.68	5.85	7.02	8.19	9.36	96
102	2.49	3.73	4.97	6.22	7.46	8.7	9.95	102
108	2.63	3.95	5.27	6.58	7.9	9.21	10.5	108
114	2.78	4.17	5.56	6.95	8.34	9.73	11.1	114
120	2.93	4.39	5.85	7.31	8.78	10.2	11.7	120

PRESSURE DROP

