



TO: Keith Eustace
COMPANY: Fabrication Designs Inc.
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FROM: Chris Fitzgerald, Lab Manager

COMPANY: Air Movement and Control Association International, Inc.
30 West University Drive
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Air Movement and Control Association International, Inc.

30 West University Drive, Arlington Heights, Illinois 60004-1893, U.S.A.

AMCA Standard 500-L-99 Air Performance - Pressure Drop Test

Test Number : 19919-I1
 Client : Fabrication Designs Inc.
 Date : October 29, 2002
 Personnel : PZ
 Witness(es) :

Test Type : Contract
 Test Figure : 5.5-6.5
 Chamber : Large
 Nozzle Comb. : 14

Manufacturer : Fabrication Designs Inc.
 Trade Name : 60 Min Louver
 Model : FDI-L60
 Size : 48 x 48 x 10 1/4
 Core Area (sq.ft.) : 12.32
 Free Area (sq.ft.) : 4.79

Louver Type : Drainable
 Blade Orientation : Vertical
 Blade Action : Parallel
 Blade Position : Open
 Flow Direction : Intake
 Blade Type : Fixed

Appurtenances : None

Remarks :

Recorded Data :

Det.	P_{br}	t_b	P_{bc}	t_{d0}	t_{w0}	t_{d5}	P_{s8}	t_{d8}	ΔP_n
1	28.970	72.5	28.846	71.6	58.9	73.7	0.750	70.8	4.900
2	28.970	72.5	28.846	71.6	58.9	73.7	0.480	70.8	3.140
3	28.970	72.5	28.846	71.6	58.9	73.7	0.270	70.8	1.760
4	28.970	72.5	28.846	71.6	58.9	73.7	0.120	70.8	0.780
5	28.970	72.5	28.846	71.6	58.9	73.7	0.050	70.8	0.330

Test Results at Standard Air :

Det.	ΔP_{DS}	Q_{DS}	$V_{Free Area}$	C_D	$C_D Class$
1	0.782	9737.5	2032.9	0.22	3
2	0.501	7791.7	1626.7	0.22	3
3	0.282	5827.7	1216.6	0.22	3
4	0.125	3871.8	808.3	0.22	3
5	0.052	2511.3	524.3	0.22	3



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Test No. 19919-11
Contract Test

