

TEST UNIT:
 MANUFACTURER: WONDER METALS CORPORATION
 MODEL NO.: EX-445
 SIZE: 48 X 48 X 4
 DEVICE TYPE: LOUVER, NON-DRAINABLE
 APPURTENANCES: NONE
 TEST METHOD PER AMCA STANDARD 500-83
 TEST SETUP: PER FIGURE 5.5
 AIR FLOW MEASUREMENT: PER FIGURE 6.5
 BLADE OPENING: FIXED OPEN
 TORQUE: NONE
 AMCA FREE AREA SQ. FT.: 7.17
 REMARKS: CONTRACT TEST

APPLICATION: 6473

TEST NO.: 6473-11

DATE OF TEST: 1/17/87

TEST TYPE: AIR FLOW TEST
 INTAKE MODE

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07425	.985	2229.1	15982.7
2	0.07419	.635	1792.4	12851.8
3	0.07413	.350	1330.3	9538.6
4	0.07410	.165	911.9	6538.2
5	0.07408	.050	491.7	3525.6

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.995	2229.1	15982.7
.642	1792.4	12851.8
.354	1330.3	9538.6
.167	911.9	6538.2
.051	491.7	3525.6

INPUT DATA FOR TEST NUMBER: 6473-11

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.55660	.78994	.985	4.450	66.8	66.8	65.5	49.2	29.60	70.5
2	1.55660	.78994	.635	2.880	66.8	66.8	65.5	49.2	29.60	70.5
3	1.55660	.78994	.350	1.590	66.8	66.8	65.5	49.2	29.60	70.5
4	1.55660	.78994	.165	.750	66.8	66.8	65.5	49.2	29.60	70.5
5	1.55660	.78994	.050	.220	66.8	66.8	65.5	49.2	29.60	70.5

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 TEST METHOD PER AMCA STANDARD 500-83
 TEST SETUP: PER FIGURE 5.5
 AIR FLOW MEASUREMENT: PER FIGURE 6.5
 BLADE OPENING: FIXED OPEN
 TORQUE: NONE
 AMCA FREE AREA SQ. FT.: 7.17
 REMARKS: CONTRACT TEST

APPLICATION: 6473

TEST NO.: 6473-E1

DATE OF TEST: 1/17/87

TEST TYPE: AIR FLOW TEST
 EXHAUST MODE

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07416	.985	2558.2	16191.6
2	0.07409	.640	1815.5	13017.2
3	0.07404	.360	1364.6	9783.9
4	0.07402	.235	1111.4	7968.7
5	0.07399	.060	555.7	3984.2

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.996	2558.2	16191.6
.648	1815.5	13017.2
.365	1364.6	9783.9
.238	1111.4	7968.7
.061	555.7	3984.2

INPUT DATA FOR TEST NUMBER: 6473-E1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.55660	.78994	.985	4.560	66.9	66.8	65.5	49.3	29.57	70.9

2	1.55660	.78994	.640	2.950	66.9	66.8	65.5	49.3	29.57	70.9
3	1.55660	.78994	.360	1.670	66.9	66.8	65.5	49.3	29.57	70.9
4	1.55660	.78994	.235	1.110	66.9	66.8	65.5	49.3	29.57	70.9
5	1.55660	.78994	.050	.280	66.9	66.8	65.5	49.3	29.57	70.9

TEST UNIT: APPLICATION: 6473 TEST NO.: 6473-W1
 MANUFACTURER: WONDER METALS CORPORATION DATE OF TEST: 1/6/87
 MODEL NO.: EX-445
 SIZE: 48 X 48 X 4 TEST TYPE: WATER PENETRATION
 DEVICE TYPE: LOUVER, NON-DRAINABLE
 APPURTENANCES: NONE
 TEST METHOD PER AMCA STANDARD 500-75
 TEST SETUP: PER FIGURE 5.6
 AIR FLOW MEASUREMENT: PER FIGURE 6.3
 WATER DROP RATE (INCHES/HR): 4.0
 WETTED WALL WATER FLOW RATE (GPM/FT): 0.25
 DURATION OF EACH DETERMINATION (MINUTES): 15
 AMCA FREE AREA SQ. FT.: 7.17

REMARKS:
 CONTRACT TEST
 AMCA FREE AREA USED TO COMPUTE FREE AREA VELOCITY
 CAULK APPLIED AT LOWER JAMB AND SILL JOINTS

RESULTS

DET	DENSITY	WATER CARRYOVER OUNCES	OUNCES/SQ.FT. FREE AREA	CFM	AIR FLOW VELOCITY THROUGH FREE AREA
1	0.07272	.007	.001	4315	601.8
2	0.07272	.018	.002	5070	707.2
3	0.07272	.095	.013	5783	806.6
4	0.07272	8.642	1.205	6492	905.5
5	0.07272	44.085	6.148	6877	959.2

INPUT DATA FOR TEST NUMBER: 6473-W1

D6 = 1.34112: EQUIVALENT NOZZLE DIAMETER IN FEET

DN = 1.04143: MULTIPLE NOZZLE CONSTANT FOR 14 AND 8 INCH NOZZLES

DET	PS	PD	DB1	DBO	WBO	PB	DBB	TOTAL WT. GRAMS	TARE WT. GRAMS
1	.080	.580	63.0	64.5	52.0	28.98	75.0	16.00	15.80
2	.110	.800	63.0	64.5	52.0	28.98	75.0	20.40	19.90
3	.140	1.040	63.0	64.5	52.0	28.98	75.0	26.30	23.60
4	.180	1.310	63.0	64.5	52.0	28.98	75.0	338.60	93.60
5	.210	1.470	63.0	64.5	52.0	28.98	75.0	1753.70	503.90