

TEST UNIT:
 MANUFACTURER: WONDER METALS CORPORATION
 MODEL NO.: **EX-445WPL**
 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.: 5.33
 REMARKS: CONTRACT TEST

APPLICATION: 7577

TEST NO.: 7577-I1

DATE OF TEST: 5/3/89

TEST TYPE: **AIR FLOW TEST
 INTAKE MODE**

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07352	.358	1518.4	8093.1
2	0.07350	.238	1235.2	6583.8
3	0.07348	.125	900.3	4798.4
4	0.07347	.053	605.8	3228.8
5	0.07346	.012	303.1	1615.3

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.365	1518.4	8093.1
.243	1235.2	6583.8
.128	900.3	4798.4
.054	605.8	3228.8
.012	303.1	1615.3

INPUT DATA FOR TEST NUMBER: 7577-I1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.17727	.83246	.358	3.455	67.4	67.4	68.2	55.5	29.44	70.4
2	1.17727	.83246	.238	2.290	67.4	67.4	68.2	55.5	29.44	70.4
3	1.17727	.83246	.125	1.220	67.4	67.4	68.2	55.5	29.44	70.4
4	1.17727	.83246	.053	0.555	67.4	67.4	68.2	55.5	29.44	70.4
5	.83266	.83266	.012	0.555	67.4	67.4	68.2	55.5	29.44	70.4

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 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.: 5.33
 REMARKS: CONTRACT TEST

APPLICATION: 7577

TEST NO.: 7577-E1

DATE OF TEST: 5/4/89

TEST TYPE: **AIR FLOW TEST
 EXHAUST MODE**

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07336	.341	1527.7	8142.9
2	0.07334	.216	1216.1	6481.6
3	0.07332	.115	895.6	4773.7
4	0.07331	.051	598.1	3188.0
5	0.07330	.012	295.0	1572.4

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.349	1527.7	8142.9
.221	1216.1	6481.6
.118	895.6	4773.7
.052	598.1	3188.0
.012	295.0	1572.4

INPUT DATA FOR TEST NUMBER: 7577-E1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.7727	.83246	.341	3.490	66.5	66.5	67.3	54.8	29.32	68.7
2	1.7727	.83246	.216	2.215	66.5	66.5	67.3	54.8	29.32	68.7

3	1.7727	.83246	.115	1.205	66.5	66.5	67.3	54.8	29.32	68.7
4	1.7727	.83246	.051	.540	66.5	66.5	67.3	54.8	29.32	68.7
5	.83266	.83266	.012	.525	66.5	66.5	67.3	54.8	29.32	68.7

TEST UNIT: APPLICATION: 7577 TEST NO.: 7577-W1
 MANUFACTURER: WONDER METALS CORPORATION DATE OF TEST: 5/4/89
 MODEL NO.: EX-445WPL TEST TYPE: WATER PENETRATION
 SIZE: 48 X 48 X 4
 DEVICE TYPE: LOUVER, NON-DRAINABLE
 APPURTENANCES: BIRD SCREEN
 TEST METHOD PER AMCA STANDARD 500-83
 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.: 5.33

REMARKS: CONTRACT TEST
 AMCA FREE AREA USED TO COMPUTE FREE AREA VELOCITY
 SEALANT APPLIED AT LOWER BLADE & JAMB (BOTH SIDES).

RESULTS

DET	WATER CARRYOVER			CFM	AIR FLOW VELOCITY THROUGH FREE AREA
	DENSITY	OUNCES	OUNCES/SQ.FT. FREE AREA		
1	0.07345	.028	.005	4816	903.6
2	0.07352	.099	.019	5103	957.5
3	0.07645	.437	.082	5350	1003.7
4	0.07645	8.984	1.686	5862	1099.7
5	0.07645	41.683	7.820	6153	1154.5

INPUT DATA FOR TEST NUMBER: 7577-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	TARE
								WT. GRAMS	WT. GRAMS
1	.140	.730	65.0	66.0	55.0	29.37	73.0	25.90	25.10
2	.160	.820	65.0	66.0	55.0	29.39	78.0	32.20	29.40
3	.170	.900	65.0	66.0	55.0	29.37	73.0	50.10	37.70
4	.210	1.080	65.0	66.0	55.0	29.37	73.0	327.80	73.10
5	.230	1.190	65.0	66.0	55.0	29.37	73.0	1645.00	463.30