

TEST UNIT:
 MANUFACTURER: WONDER METALS CORPORATION
 MODEL NO.: **EX-645WPL**
 SIZE: 48 X 48 X 6
 DEVICE TYPE: LOUVER, NON-DRAINABLE
 APPURTENANCES: NONE
 TEST METHOD PER AMCA STANDARD 500-83
 TEST SETUP: PER FIGURE 5.4
 AIR FLOW MEASUREMENT: PER FIGURE 6.3
 BLADE OPENING: FIXED OPEN
 TORQUE: NONE
 AMCA FREE AREA SQ. FT.: 6.28
 REMARKS: CONTRACT TEST

APPLICATION: 7026

TEST NO.: 7026-I1
 DATE OF TEST: 12/8/87

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

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07202	.378	1528.7	9600.0
2	0.07202	.238	1215.7	7634.4
3	0.07202	.139	927.7	5825.8
4	0.07202	.060	611.5	3840.3
5	0.07202	.014	309.2	1941.5

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.394	1528.7	9600.0
.248	1215.7	7634.4
.145	927.7	5825.8
.062	611.5	3840.3
.015	309.2	1941.5

INPUT DATA FOR TEST NUMBER: 7026-I1

DET	D6	DN	PS	PD	DB1	DB5	DBO	WBO	PB	DBB
1	1.7830	.83321	.378	4.790	73.2	71.8	72.2	60.2	29.25	82.7
2	1.7830	.83321	.238	3.020	73.2	71.8	72.2	60.2	29.25	82.7
3	1.7830	.83321	.139	1.757	73.2	71.8	72.2	60.2	29.25	82.7
4	1.7830	.83321	.060	.765	73.2	71.8	72.2	60.2	29.25	82.7
5	.83317	.83317	.014	.782	73.2	71.8	72.2	60.2	29.25	82.7

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 APPURTENANCES: NONE
 TEST METHOD PER AMCA STANDARD 500-83
 TEST SETUP: PER FIGURE 5.5
 AIR FLOW MEASUREMENT: PER FIGURE 6.3
 BLADE OPENING: FIXED OPEN
 TORQUE: NONE
 AMCA FREE AREA SQ. FT.: 6.28
 REMARKS: CONTRACT TEST

APPLICATION: 7026

TEST NO.: 7026-E1
 DATE OF TEST: 12/8/87

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

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07213	.350	1524.9	9576.4
2	0.07213	.225	1222.5	7677.5
3	0.07213	.125	909.0	5708.3
4	0.07213	.053	590.5	3708.6
5	0.07213	.014	313.6	1969.3

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.364	1524.9	9576.4
.234	1222.5	7677.5
.130	909.0	5708.3
.055	590.5	3708.6
.015	313.6	1969.3

INPUT DATA FOR TEST NUMBER: 7026-E1

DET	D6	DN	PS	PD	DB1	DB5	DBO	WBO	PB	DBB
1	1.7830	.83321	.350	4.775	72.5	71.3	71.5	60.0	29.25	80.2
2	1.7830	.83321	.225	3.060	72.5	71.3	71.5	60.0	29.25	80.2

3	1.7830	.83321	.125	1.690	72.5	71.3	71.5	60.0	29.25	80.2
4	1.7830	.83321	.053	.715	72.5	71.3	71.5	60.0	29.25	80.2
5	.83317	.83317	.014	.806	72.5	71.3	71.5	60.0	29.25	80.2

TEST UNIT: APPLICATION: 7026 TEST NO.: 7026-W1
 MANUFACTURER: WONDER METALS CORPORATION DATE OF TEST: 12/7/87
 MODEL NO.: EX-645WPL
 SIZE: 48 X 48 X 6 TEST TYPE: WATER PENETRATION
 DEVICE TYPE: LOUVER, NON-DRAINABLE
 APPURTENANCES:
 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.: 6.28

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

RESULTS

DET	DENSITY	WATER CARRYOVER OUNCES	OUNCES/SQ.FT. FREE AREA	CFM	AIR FLOW VELOCITY THROUGH FREE AREA
1	0.7388	.014	.002	3767	599.8
2	0.7388	.021	.003	4389	698.8
3	0.7388	.056	.009	5028	800.7
4	0.7388	.296	.047	5624	895.5
5	0.7388	3.432	.547	6264	997.4
6	0.7388	12.233	1.948	6584	1048.5
7	0.7388	38.727	6.167	6890	1097.1

INPUT DATA FOR TEST NUMBER: 7026-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	.060	.450	63.5	64.5	53.0	29.44	71.5	15.90	15.50
2	.080	.610	63.5	64.5	53.0	29.44	71.5	20.20	19.60
3	.110	.800	63.5	64.5	53.0	29.44	71.5	25.00	23.40
4	.130	1.000	63.5	64.5	53.0	29.44	71.5	47.60	39.20
5	.160	1.240	63.5	64.5	53.0	29.44	71.5	173.40	76.10
6	.180	1.370	63.5	64.5	53.0	29.44	71.5	821.30	474.50
7	.190	1.500	63.5	64.5	53.0	29.44	71.5	1580.90	483.00