

TEST UNIT:
 MANUFACTURER: WONDER METALS CORPORATION
 MODEL NO.: **EXSDL-4**
 SIZE: 48 X 48 X 4
 DEVICE TYPE: LOUVER, 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.: 7.346
 REMARKS: CONTRACT TEST

APPLICATION: 5986

TEST NO.: 5986-I1
 DATE OF TEST: 1/23/86

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

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07432	.216	1503.8	11046.7
2	0.07430	.138	1210.1	8889.3
3	0.07429	.073	889.6	6534.8
4	0.07429	.034	615.5	4521.2
5	0.07428	.008	300.8	2209.7

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.218	1503.8	11046.7
.139	1210.1	8889.3
.074	889.6	6534.8
.034	615.5	4521.2
.008	300.8	2209.7

INPUT DATA FOR TEST NUMBER: 5986-I1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.24997	.76364	.216	5.150	67.9	71.4	69.2	49.7	29.74	72.6
2	1.24997	.76364	.138	3.340	67.9	71.4	69.2	49.7	29.74	72.6
3	1.24997	.76364	.073	1.810	67.9	71.4	69.2	49.7	29.74	72.6
4	1.24997	.76364	.034	.870	67.9	71.4	69.2	49.7	29.74	72.6
5	1.24997	.76364	.008	.210	67.9	71.4	69.2	49.7	29.74	72.6

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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.: 7.346
 REMARKS: CONTRACT TEST

APPLICATION: 5986

TEST NO.: 5986-E1
 DATE OF TEST: 1/23/86

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

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07434	.183	1509.8	11091.3
2	0.07433	.120	1212.7	8908.2
3	0.07431	.063	895.0	6575.0
4	0.07431	.030	614.1	4510.8
5	0.07430	.007	301.0	2211.0

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.185	1509.8	11091.3
.121	1212.7	8908.2
.064	895.0	6575.0
.030	614.1	4510.8
.007	301.0	2211.0

INPUT DATA FOR TEST NUMBER: 5986-E1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.24997	.76364	.183	5.185	67.8	70.5	68.3	48.8	29.74	72.8

2	1.24997	.76364	.120	3.350	67.8	70.5	68.3	48.8	29.74	72.8
3	1.24997	.76364	.063	1.830	67.8	70.5	68.3	48.8	29.74	72.8
4	1.24997	.76364	.030	.865	67.8	70.5	68.3	48.8	29.74	72.8
5	1.24997	.76364	.007	.210	67.8	70.5	68.3	48.8	29.74	72.8

TEST UNIT: APPLICATION: 5986 TEST NO.: 5986-W1
 MANUFACTURER: WONDER METALS CORPORATION DATE OF TEST: 1/22/86
 MODEL NO.: **EXSDL-4**
 SIZE: 48 X 48 X 4 TEST TYPE: **WATER PENETRATION**
 DEVICE TYPE: LOUVER, DRAINABLE
 APPURTENANCES: NONE
 TEST METHOD PER AMCA STANDARD 500-83
 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.: 7.346

REMARKS: CONTRACT TEST

RESULTS

DET	DENSITY	WATER CARRYOVER OUNCES	OUNCES/SQ.FT. FREE AREA	CFM	AIR FLOW VELOCITY THROUGH FREE AREA
1	0.07573	.004	.000	5657	770.1
2	0.07573	.004	.000	6391	869.9
3	0.07573	.007	.001	7107	967.4
4	0.07573	.018	.002	7810	1063.1
5	0.07573	.141	.019	8571	1166.8
6	0.07573	13.252	1.804	8870	1207.5

INPUT DATA FOR TEST NUMBER: 5986-W1

D6 = NOZZLE DIAMETER (1.16333 FT)

DET	PS	PD	DB1	DBO	WBO	PB	DBB	TOTAL WT. GRAMS	TARE WT. GRAMS
1	.060	1.880	64.5	51.0	64.5	29.59	72.5	20.90	20.80
2	.080	2.400	64.5	51.0	52.0	29.59	72.5	25.10	25.00
3	.110	2.970	64.5	51.0	64.5	29.59	72.5	25.20	25.00
4	.130	3.590	64.5	51.0	64.5	29.59	72.5	25.5	25.00
5	.150	4.330	64.5	51.0	64.5	29.59	72.5	37.30	33.30
6	.160	4.640	64.5	51.0	64.5	29.59	72.5	519.30	143.60