

TEST UNIT:  
 MANUFACTURER: WONDER METALS CORPORATION  
 MODEL NO.: **EXSDL-6**  
 SIZE: 48 X 48 X 6  
 DEVICE TYPE: LOUVER, NON-DRAINABLE  
 APPURTENANCES: NONE  
 TEST METHOD PER AMCA STANDARD 500-89  
 TEST SETUP: PER FIGURE 5.5  
 AIR FLOW MEASUREMENT: PER FIGURE 6.5  
 BLADE OPENING: FIXED OPEN  
 TORQUE: NONE  
 AMCA FREE AREA SQ. FT.: 9.62  
 REMARKS: CONTRACT TEST

APPLICATION: 2526

TEST NO.: 2526-I1

DATE OF TEST: 5/6/77

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

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07305	.010	306.1	2944.9
2	0.07305	.030	512.2	4927.2
3	0.07300	.082	816.4	7854.2
4	0.07302	.189	1231.7	11849.2
5	0.07302	.543	2082.2	20031.1
6	0.07311	1.006	2828.0	27205.2

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.010	306.1	2944.9
.031	512.2	4927.2
.084	816.4	7854.2
.194	1231.7	11849.2
.558	2082.2	20031.1
1.032	2828.0	27205.2

INPUT DATA FOR TEST NUMBER: 2526-I1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.17833	.83321	.010	.458	72.0	72.0	72.0	54.7	29.51	72.0
2	1.17833	.83321	.030	1.274	72.0	72.0	72.0	54.7	29.51	72.0
3	2.46304	.79725	.082	.172	72.4	72.4	72.4	54.9	29.51	72.0
4	2.46304	.79725	.189	.389	72.4	72.4	72.4	54.9	29.51	72.0
5	2.46304	.79725	.543	1.104	72.9	72.9	72.9	54.0	29.51	72.0
6	2.46304	.79725	1.006	2.032	72.9	72.9	72.9	54.0	29.51	72.0

TEST UNIT:  
 MANUFACTURER: WONDER METALS CORPORATION  
 MODEL NO.: **EXSDL-6**  
 SIZE: 48 X 48 X 6  
 DEVICE TYPE: LOUVER, NON-DRAINABLE  
 APPURTENANCES: NONE  
 TEST METHOD PER AMCA STANDARD 500-89  
 TEST SETUP: PER FIGURE 5.5  
 AIR FLOW MEASUREMENT: PER FIGURE 6.5  
 BLADE OPENING: FIXED OPEN  
 TORQUE: NONE  
 AMCA FREE AREA SQ. FT.: 9.62  
 REMARKS: CONTRACT TEST

APPLICATION: 2526

TEST NO.: 2526-E1

DATE OF TEST: 5/6/77

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

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07298	.010	303.2	2916.9
2	0.07298	.030	515.2	4956.7
3	0.07307	.074	813.7	7827.7
4	0.07308	.171	1231.2	11844.2
5	0.07313	.480	2061.7	19833.6

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.010	303.2	2916.9
.031	515.2	4956.7
.076	813.7	7827.7
.175	1231.2	11844.2
.492	2061.7	19833.6

INPUT DATA FOR TEST NUMBER: 2526-E1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	1.17833	.83321	.010	.449	72.5	72.5	72.5	54.9	29.51	72.0

2	1.17833	.83321	.030	1.288	72.5	72.5	72.5	54.9	29.51	72.0
3	2.46304	.79725	.074	.171	72.0	72.0	72.0	54.6	29.51	71.0
4	2.46304	.79725	.171	.389	72.0	72.0	72.0	54.6	29.51	71.0
5	2.46304	.79725	.480	1.084	72.1	72.1	72.1	54.7	29.51	71.0

-----

TEST UNIT: APPLICATION: 2526 TEST NO.: 2526-W1  
 MANUFACTURER: WONDER METALS CORPORATION DATE OF TEST: 5/5/77  
 MODEL NO.: **EXSDL-6**  
 SIZE: 48 X 48 X 6 TEST TYPE: **WATER PENETRATION**  
 DEVICE TYPE: LOUVER, DRAINABLE  
 APPURTENANCES: BIRD SCREEN  
 TEST METHOD PER AMCA STANDARD 500-89  
 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.: 9.62

REMARKS: CONTRACT TEST

RESULTS

DET	DENSITY	WATER CARRYOVER OUNCES	OUNCES/SQ.FT. FREE AREA	CFM	AIR FLOW VELOCITY THROUGH FREE AREA
1	0.07164	15.157	1.576	10890	1132.1
2	0.07164	11.086	1.152	10606	1102.5
3	0.07164	1.612	.168	10346	1075.5
4	0.07164	1.079	.112	9794	1018.1
5	0.07164	.039	.004	8998	935.3
6	0.07164	.014	.001	7367	765.8
7	0.07164	.007	.001	5870	610.1

INPUT DATA FOR TEST NUMBER: 2526-W1

D6 = NOZZLE DIAMETER (1.16333 FT)

DET	PS	PD	DB1	DBO	WBO	PB	DBB	TOTAL WT. GRAMS	TARE WT. GRAMS
1	.162	3.403	77.0	77.0	60.4	29.27	76.0	643.00	213.30
2	.154	3.227	77.0	77.0	60.4	29.27	76.0	521.70	207.40
3	.149	3.07	77.0	77.0	60.4	29.27	76.0	138.80	93.10
4	.130	2.75	77.0	77.0	60.4	29.27	76.0	125.70	95.10
5	.106	2.32	77.0	77.0	60.4	29.27	76.0	43.50	42.40
6	.070	1.555	77.0	77.0	60.4	29.27	76.0	42.80	42.40
7	.040	.988	77.0	77.0	60.4	29.27	76.0	42.60	42.40