

TEST UNIT: APPLICATION: 2526  
 MANUFACTURER: WONDER METALS CORPORATION TEST NO.: 2526-I1  
 MODEL NO.: **SDL-6** DATE OF TEST: 5/6/77  
 SIZE: 48 X 48 X 6  
 DEVICE TYPE: LOUVER, DRAINABLE TEST TYPE: **AIR FLOW TEST**  
 APPURTENANCES: NONE INTAKE MODE  
 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

RESULTS AT TEST CONDITIONS

RESULTS AT STANDARD AIR DENSITY

DET	DENSITY	PS	VELOCITY	CFM	PS	VELOCITY	CFM
1	0.07305	.010	306.1	2944.9	.010	306.1	2944.9
2	0.07305	.030	512.2	4927.2	.031	512.2	4927.2
3	0.07300	.082	816.4	7854.2	.084	816.4	7854.2
4	0.07302	.189	1231.7	11849.2	.194	1231.7	11849.2
5	0.07302	.543	2082.2	20031.1	.558	2082.2	20031.1
6	0.07311	1.006	2828.0	27205.2	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	55.0	29.51	72.0

TEST UNIT: APPLICATION: 2526  
 MANUFACTURER: WONDER METALS CORPORATION TEST NO.: 2526-E1  
 MODEL NO.: **SDL-6** DATE OF TEST: 5/6/77  
 SIZE: 48 X 48 X 6  
 DEVICE TYPE: LOUVER, DRAINABLE TEST TYPE: **AIR FLOW TEST**  
 APPURTENANCES: NONE EXHAUST MODE  
 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

RESULTS AT TEST CONDITIONS

RESULTS AT STANDARD AIR DENSITY

DET	DENSITY	PS	VELOCITY	CFM	PS	VELOCITY	CFM
1	0.07298	.010	303.2	2916.9	.010	303.2	2916.9
2	0.07298	.030	515.2	4956.7	.031	515.2	4956.7
3	0.07307	.074	813.7	7827.7	.076	813.7	7827.7
4	0.07308	.171	1231.2	11844.2	.175	1231.2	11844.2
5	0.07313	.480	2061.7	19833.6	.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

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TEST UNIT: APPLICATION: 2526 TEST NO.: 2526-W1  
 MANUFACTURER: WONDER METALS CORPORATION DATE OF TEST: 5/5/77  
 MODEL NO.: **SDL-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  
 AMCA FREE AREA USED TO COMPUTE FREE AREA VELOCITY

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

D=61.36476: EQUIVALENT NOZZLE DIAMETER IN FEET

DN=.94060: MULTIPLE NOZZLE CONSTANT FOR 14+8+3 INCH NOZZLES

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	3.070	77.0	77.0	60.4	29.27	76.0	138.80	93.10
4	.130	2.750	77.0	77.0	60.4	29.27	76.0	125.70	95.10
5	.106	2.320	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