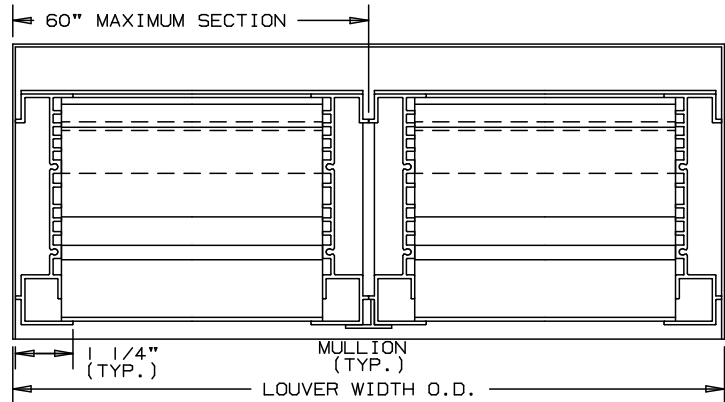
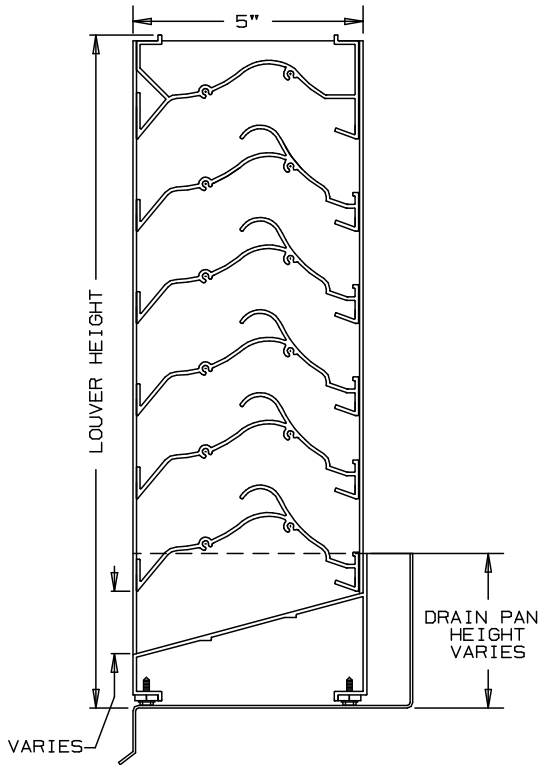


ARROW EXTRUDED ALUMINUM LOUVERS 5" DEEP

TYPE EA-520-D

CHEVRON DRAIN BLADE - STATIONARY - CHANNEL TYPE
SIGHTPROOF - WIND DRIVEN RAIN RESISTANT



SPECIFICATIONS

MATERIAL: EXTRUDED ALUMINUM 6063-T6/T52 ALLOY - .060" BLADES, .081" THICK FRAME NOMINAL.
FACE OF LOUVER: HEAD AND BLADES CONTAINED WITHIN THE JAMBS.
SILL CONTAINS JAMBS.
APPROXIMATE BLADE CENTERS 2".

SCREENS: WHEN INDICATED, IN A REMOVABLE FRAME.
BIRD SCREEN - 1/2" FLATTENED ALUMINUM .051" THK.
OR - 1/2" SQ. MESH, INTERMEDIATE DOUBLE-CRIMPED ALUMINUM WIRE, .063 DIA.
OR - 18/16 MESH, .011" DIA. ALUMINUM WIRE, INSECT SCREEN.

FINISH: _____

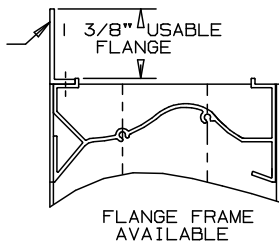
LOUVER SIZES: 12" x 12" MINIMUM PANEL SIZE.
40 SQUARE FEET IS THE MAXIMUM SECTION SIZE.
LOUVERS LARGER THAN THE MAXIMUM FACTORY ASSEMBLED SIZE WILL REQUIRE FIELD ASSEMBLY OF SMALLER LOUVER SECTIONS

LOUVER PERFORMANCE STATEMENT

LOUVER MODEL EA-520-D SHALL BE FABRICATED TO PROVIDE A MINIMUM OF (44.3%) 7.08 SQUARE FEET OF FREE AREA FOR A SIZE 48"x48" LOUVER AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR AIR PERFORMANCE, WATER PENETRATION AND WIND DRIVEN RAIN. THE RATINGS SHALL SHOW A BEGINNING POINT OF WATER PENETRATION AT .01 OUNCES PER SQUARE FOOT OF FREE AREA TO BE ABOVE 1250 FPM (8,850 CFM WITH .21 INCHES WATER GAGE PRESSURE DROP AT 1000 FPM AIR INTAKE.

IN ADDITION, THIS LOUVER IS TESTED TO WIND DRIVEN RAIN TEST STANDARD, AMCA 500-L-99, WHERE THE LOUVER IS SUBJECTED TO SIMULATED WIND DRIVEN RAIN. THE RESULT OF THIS TEST, FOR A SIZE 48"x48" LOUVER, SHALL SHOW A CLASS "A" RATING AT 3 INCHES OF RAINFALL AT AN INTAKE VELOCITY OF 1,133 FPM (8,022 CFM) AT A WIND SPEED OF 29 MPH, AND A CLASS "B" RATING AT 8 INCHES OF RAINFALL AT AN INTAKE VELOCITY OF 1,307 FPM (9,254 CFM) AT A WIND SPEED OF 50 MPH.

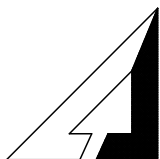
FLANGE FRAME AVAILABLE ON (3) SIDES ONLY, NOT ON SILL



FOR CERTIFIED RATINGS
AUTHORIZED BY AMCA
- SEE REVERSE SIDE

NOMINAL DEDUCTIONS WILL BE MADE TO THE OPENING SIZE GIVEN.

ITEM	QTY.	WIDTH	HEIGHT	WIDTH	HEIGHT	MULL	TYPE	LOC	SCREENS	UNION MADE
		OPENING SIZE		LOUVER SIZE						



ARROW UNITED INDUSTRIES
A DIVISION OF MESTEK, INC.

314 RIVERSIDE DRIVE
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AGENT: _____

ARCH./ENG.:

CONTR.:

PROJECT:

EDR: ECN: JOB:

DATE: DWN.: DWG.:

LOUVER MODEL EA-520-D

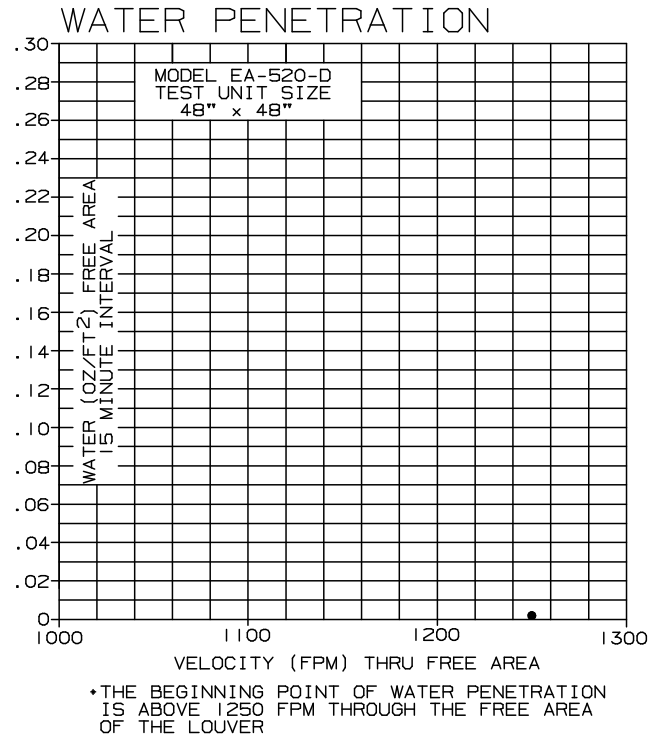
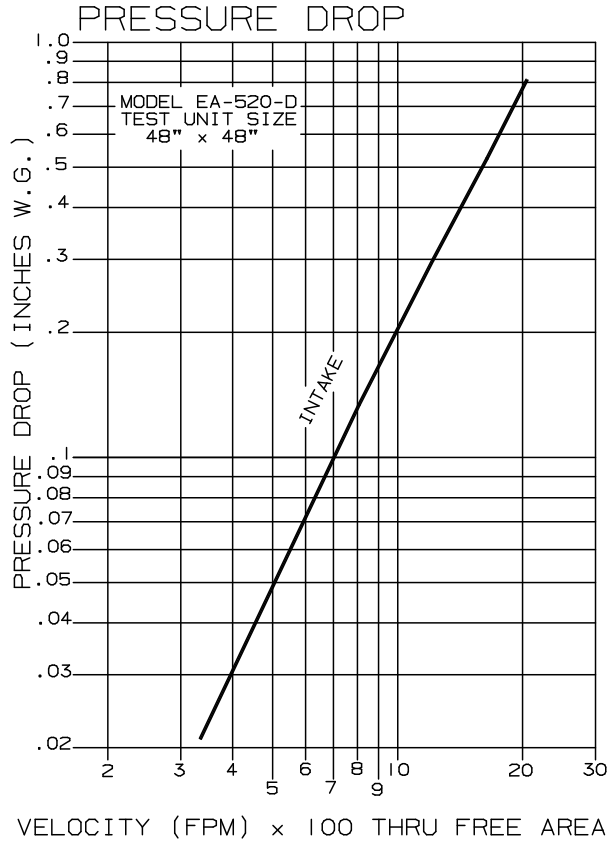
WIND DRIVEN RAIN RESISTANT LOUVER

EXTRUDED ALUMINUM - STATIONARY

PERFORMANCE DATA

TESTS OF A 48"x48" ACCORDING TO AMCA STANDARD 500-L SHOWS THE BEGINNING POINT OF WATER PENETRATION IS ABOVE 1250 FPM THROUGH THE FREE AREA OF THE LOUVER, WITH LESS THAN .21 INCHES WATER GAUGE PRESSURE DROP AT 1000 FPM (INTAKE).

RATINGS DO NOT INCLUDE EFFECTS OF BIRD SCREEN.



*AMCA STANDARD 500-L LIMITS TESTING OF WATER PENETRATION TO EITHER A MAXIMUM VELOCITY OF 1250 FPM OR 2.5 OUNCES OF WATER PER SQUARE FOOT OF LOUVER FREE AREA.

FREE AREA

		FREE AREA (SQ. FT.)									
		WIDTH									
		12"	24"	36"	48"	60"	72"	84"	96"	108"	120"
HEIGHT	12"	.21	.49	.76	1.04	1.31	1.58	1.86	2.13	2.40	2.68
	24"	.63	1.43	2.24	3.04	3.85	4.65	5.46	6.26	7.07	7.87
	36"	1.04	2.38	3.72	5.05	6.39	7.73	9.06	10.40	11.73	13.07
	48"	1.46	3.33	5.19	7.08	8.93	10.80	12.67	14.53	16.40	18.27
	60"	1.88	4.27	6.67	9.07	11.47	13.87	16.27	18.67	21.07	23.46
	72"	2.29	5.22	8.15	11.08	14.01	16.94	19.87	22.80	25.73	28.66
	84"	2.71	6.17	9.63	13.09	16.55	20.01	23.47	26.93	30.40	33.86
	96"	3.12	7.11	11.11	15.10	19.09	23.08	27.08	31.07	35.06	39.05
	108"	3.54	8.06	12.58	17.11	21.63	26.16	30.68	35.20	39.73	44.25
	120"	3.95	9.01	14.06	19.12	24.17	29.23	34.28	39.34	44.39	49.45

LOUVER MODEL EA-520-D

PERFORMANCE DATA

WIND DRIVEN RAINWATER PENETRATION TEST CONDUCTED TO AMCA STANDARD 500-L

TEST SIZE 1M x 1M (39.37" x 39.37") CORE AREA, 41.87" x 42.77" NOMINAL.
LOUVER FREE AREA 5.54 SQUARE FEET

CORE VENTILATION (M/S)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	RAIN FALL / MPH
FPM	0	0	0	0	385	474	583	682	771	866	981	3 IN. / HR. RAIN FALL AND 29 MPH VELOCITY
FREE AREA VENTILATION (CFM)	-	-	-	-	4143	5108	6276	7347	8303	9321	10,560	
FREE AREA VELOCITY (FPM)	-	-	-	-	748	922	1133	1326	1499	1682	1906	
EFFECTIVE RATING CLASS	A	A	A	A	A	A	A	B	B	C	C	
EFFECTIVENESS RATIO %	-	-	-	-	99.8	99.6	99.0	97.1	95.1	90.6	89.3	
FPM	0	122	190	285	390	481	569	673	773	884	945	8 IN. / HR. RAIN FALL AND 50 MPH VELOCITY
FREE AREA VENTILATION (CFM)	-	1313	2049	3071	4202	5179	6129	7243	8324	9521	10,174	
FREE AREA VELOCITY (FPM)	-	237	370	554	758	935	1106	1307	1503	1719	1836	
EFFECTIVE RATING CLASS	B	B	B	B	B	B	B	B	C	C	C	
EFFECTIVENESS RATIO %	98.3	98.2	98.1	97.9	97.7	97.9	97.6	95.7	93.9	89.8	85.8	

DISCHARGE COEFFICIENT

INTAKE Cd= 0.29 (CLASS 3)

WIND DRIVEN RAIN PENETRATION CLASSIFICATIONS	
CLASS	EFFECTIVENESS %
A	1 TO 0.99%
B	0.989% TO 0.95%
C	0.949 TO 0.80%
D	BELOW 0.80%

DISCHARGE LOSS COEFFICIENT CLASSIFICATIONS	
CLASS	DISCHARGE LOSS COEFFICIENT
1	0.4 AND ABOVE
2	0.3 TO 0.399
3	0.2 TO 0.299
4	0.199 AND BELOW

CLASS 1 LOSS COEFFICIENT HAS THE LEAST RESISTANCE TO AIRFLOW.

1. CORE AREA IS THE FRONT OPENING OF A LOUVER ASSEMBLY WITH THE BLADES REMOVED.
2. CORE AREA VELOCITY IS THE AIRFLOW RATE THROUGH THE LOUVER DIVIDED BY THE CORE AREA (39.37"x39.37").
3. FREE AREA IS THE MINIMUM AREA THROUGH WHICH AIR CAN PASS. IT IS DETERMINED BY MULTIPLYING THE SUM OF THE MINIMUM DISTANCES BETWEEN INTERMEDIATE BLADES, TOP BLADE AND HEAD, BOTTOM BLADE AND SILL, BY THE MINIMUM DISTANCE BETWEEN JAMBS.
4. DISCHARGE LOSS COEFFICIENT IS CALCULATED BY DIVIDING A LOUVER ACTUAL AIRFLOW RATE vs. A THEORETICAL AIRFLOW FOR THE OPENING. PROVIDING AN INDICATION OF THE LOUVER AIR FLOW CHARACTERISTICS.



ARROW UNITED CERTIFIES THAT THE MODEL EA-520-D SHOWN HEREIN IS LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS AND PROCEDURES PERFORMED IN ACCORDANCE WITH AMCA PUBLICATION 511 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA CERTIFIED RATINGS PROGRAM. THE AMCA CERTIFIED RATINGS SEAL APPLIES TO AIR PERFORMANCE, WATER PENETRATION, AND WIND DRIVEN RAIN RATINGS ONLY.

* AMCA ACCREDITED LABORATORY IS A LABORATORY EQUIPPED AND STAFFED TO CONDUCT TESTS ACCORDING TO THE APPROPRIATE AMCA TEST METHOD AND WHICH HAS BEEN LICENSED AS A AMCA ACCREDITED LABORATORY.