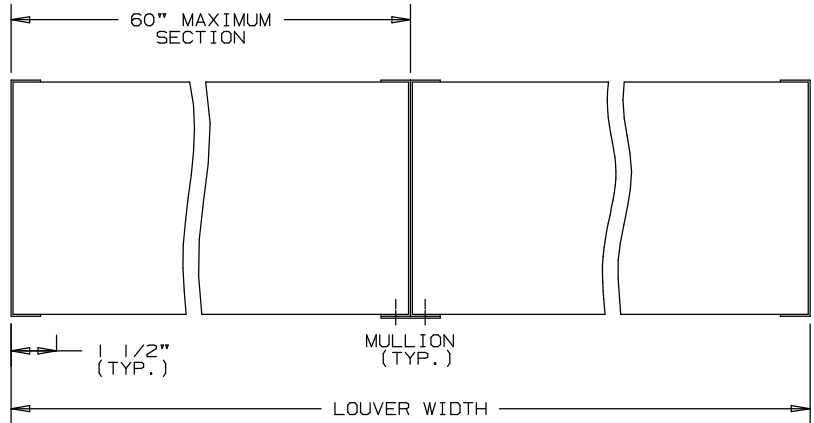
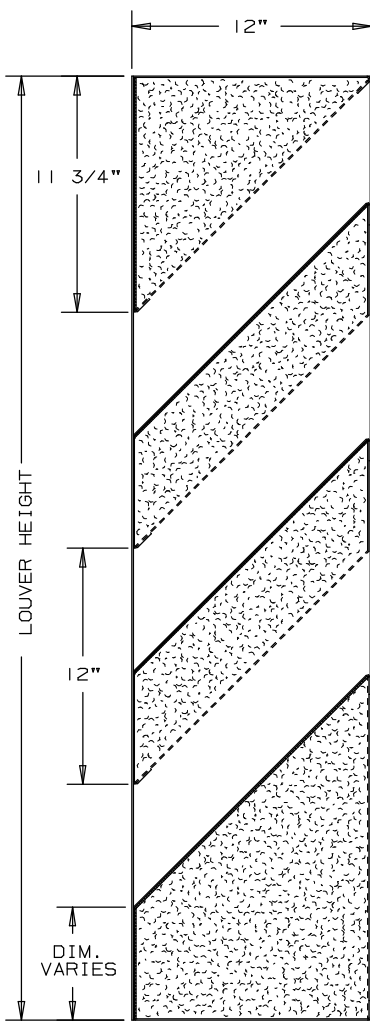


# ARROW ACOUSTICAL LOUVERS

12" DEEP WITH 12" BLADE SPACING

# TYPE AC-482-12

FOR USE WHERE NOISE REDUCTION IS REQUIRED  
AIR FLOW DESIGN FOR INTAKE OR DISCHARGE



### SPECIFICATIONS

#### MODEL AC-482-12 STEEL

FRAME: 16 GA. GALVANIZED STEEL.  
BLADE: 18 GA. GALVANIZED STEEL AIRFOIL EXTERIOR SURFACE WITH 22 GA. PERFORATED STEEL INTERIOR SURFACE.  
BLADE FILL: ARROW SOUND INSULATION.  
SCREEN: 1/2" GALVANIZED STEEL MESH (.041").  
FINISH: MILL, GALVANIZED.

#### MODEL AC-482-12 ALUMINUM

FRAME: 14 GA. ALUMINUM.  
BLADE: 16 GA. ALUMINUM AIRFOIL EXTERIOR SURFACE WITH 22 GA. PERFORATED ALUMINUM INTERIOR SURFACE.  
BLADE FILL: ARROW SOUND INSULATION.  
SCREEN: 1/2" FLATTENED ALUMINUM MESH (.051").  
FINISH: MILL, ALUMINUM.

### OPTIONAL

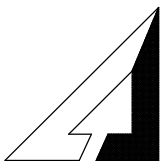
FINISHES: ENAMELS, EPOXIES, ETC.

FOR PERFORMANCE DATA  
-SEE REVERSE SIDE

NOT TO SCALE

NOMINAL DEDUCTIONS WILL BE MADE TO OPENING SIZES 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  
WYALUSING, PA 18853

TEL: (570) 746-1888 FAX: (570) 746-9286

AGENT: \_\_\_\_\_

ARCH./ENG.:

CONTR.:

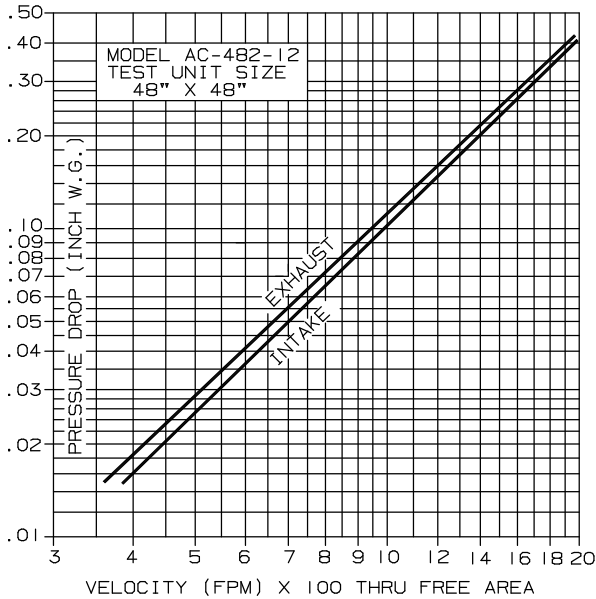
PROJECT:

EDR: ECN: JOB:

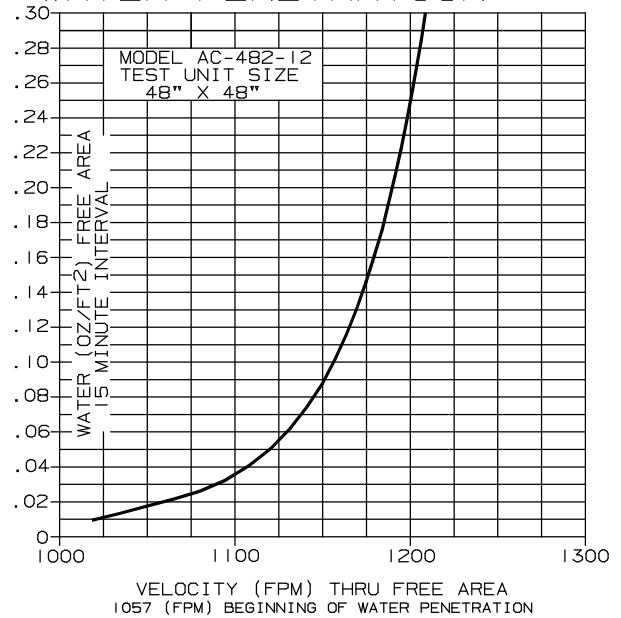
DATE: DWN.: DWG.:

# LOUVER MODEL AC-482-12 PERFORMANCE DATA

## PRESSURE DROP



## WATER PENETRATION



## SOUND TRANSMISSION LOSS

OCTIVE BAND	1	2	3	4	5	6	7	8
FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000
SOUND TRANSMISSION LOSS (db)	8	8	7	9	13	15	12	10
FREE FIELD NOISE REDUCTION	14	14	13	15	19	21	18	16

## ATTENUATION

DISTANCE FROM LOUVER	OCTIVE BAND CENTER FREQUENCY (Hz)							
	1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000
0'	14	14	13	15	19	21	18	16
10'	26	26	25	27	31	33	30	28
50'	40	40	39	41	45	47	44	42
100'	46	46	45	47	45	53	50	48
200'	52	52	51	53	53	59	56	54
500'	60	60	59	61	65	67	64	62
1000'	66	66	65	67	71	73	70	68

ATTENUATION CHART ABOVE IS A COMBINATION OF THE MODEL AC-482-12 SOUND TRANSMISSION LOSS AND THE REDUCTION OF SOUND ENERGY AS A FUNCTION OF DISTANCE.

## FREE AREA

HEIGHT	FREE AREA (SQ. FT.)								
	WIDTH								
	12"	18"	24"	30"	36"	42"	48"	54"	60"
24"	.27	.45	.63	.81	.98	1.16	1.34	1.52	1.70
36"	.54	.90	1.25	1.61	1.97	2.33	2.69	3.04	3.40
48"	.81	1.34	1.88	2.42	2.95	3.49	4.03	4.56	5.10
60"	1.07	1.79	2.51	3.22	3.94	4.65	5.37	6.09	6.80
72"	1.34	2.24	3.13	4.03	4.92	5.82	6.71	7.61	8.50
84"	1.61	2.69	3.76	4.83	5.91	6.98	8.06	9.13	10.20
96"	1.88	3.13	4.39	5.64	6.89	8.14	9.40	10.65	11.90