



EXTRUDED ALUMINUM COMBINATION LOUVER/DAMPER
6" (152) DEEP • DRAINABLE BLADE
OPERABLE AIRFOIL DAMPER
MODEL: C-DWE-46

Safe-Air Dowco Model C-DWE-46 is an extruded aluminum combination louver and damper that incorporates front stationary drainable blades and rear adjustable airfoil blades all within a single frame. The design provides efficient air performance and aesthetics that compliment any building exterior, while providing tight shut-off when no airflow is required. The drainable blades provide excellent weather protection for exhaust and low to medium velocity intake air applications by utilizing rain gutters to divert collected water down concealed side downspouts and out the sill. Blades are reinforced with full length integral bosses for strength. Model C-DWE-46 is available with channel or flanged type frame to suit most installation requirements, and is licensed by AMCA for assured performance.

STANDARD CONSTRUCTION:

- FRAME:** 6" (152) deep type 6063-T5 extruded aluminum, .125" (3.18) nominal wall thickness. Integral downspouts and caulking slot provided.
- BLADES:** Front stationary blades: drainable style, type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Rear operable blades: Airfoil style, type 6063-T5 extruded aluminum.
- BLADE ANGLE:** Front blades fixed at 45 degrees.
- BLADE SPACING:** Approx. 5 1/2" (140) on centers.
- BLADE SEALS:** Silicone. Mechanically locked in place.
- JAMB SEALS:** Cambered stainless steel.
- BEARINGS:** 1/2" (13) dia. Celcon®.
- AXLES:** 1/2" (13) dia. plated steel double bolted to blades.
- LINKAGE:** Concealed in frame.
- SCREEN:** 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approximately 3/8" [10] to louver depth).
- ACTUATOR:** Hand locking louver quadrant.
- FINISH:** Mill.
- MINIMUM SIZE:** 12" W x 12" H (305 x 305).
- MAX. SINGLE SECTION SIZE:** 60" W x 96" H (1524 x 2438). Larger sizes will be manufactured in sections with visible mullion side frame (downspouts are concealed) for field assembly.

OPTIONS:

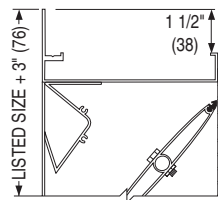
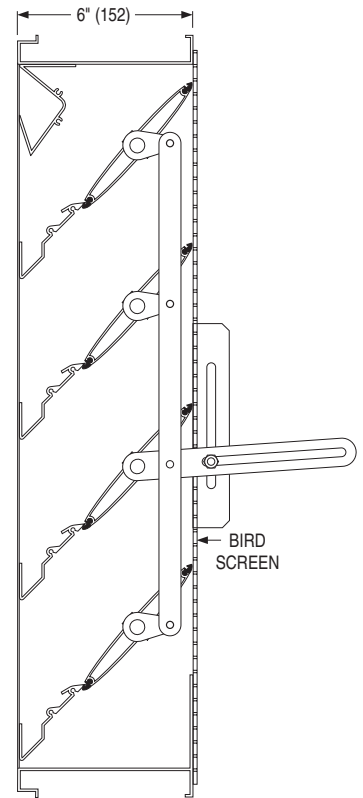
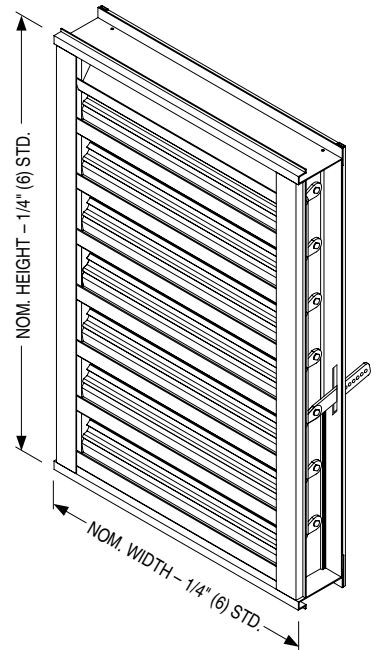
- Flanged Frame.
- Type 304 S.S. Bird Screen.
- No Bird Screen.
- Aluminum Insect Screen.
- Type 304 S.S. Insect Screen.
- Welded Construction.
- Extended Sill.
- 1" (25) Filter Rack.
- 2" (51) Filter Rack.
- Perimeter Anchor Clips.
- Electric or Pneumatic Actuator.
- Specify: _____.
- Other: _____.

OPTIONAL FINISHES: (Size limitations may apply with specific finishes; contact factory)

- Powder Coat AAMA 2603. Color: _____.
 - High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar®). Color: _____.
 - Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar®). Color: _____.
 - Prime Coat.
 - Clear Anodized 204-R1.
 - Clear Anodized 215-R1.
- Color Anodized:
- Light Bronze.
 - Dark Bronze.
 - Medium Bronze.
 - Black.

OPTIONAL W x H SIZING (1/4" [6.5] Undersize standard):

- Exact Size.
- Undersize 3/8" (9.5).
- Undersize 1/2" (12.7).



OPTIONAL FLANGED FRAME (FL)

SCHEDULE TYPE:	Page 1 of 2			
PROJECT:	Dimensions are in inches (mm).			
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	11 - 22 - 19	LV	NEW	C-DWE-46

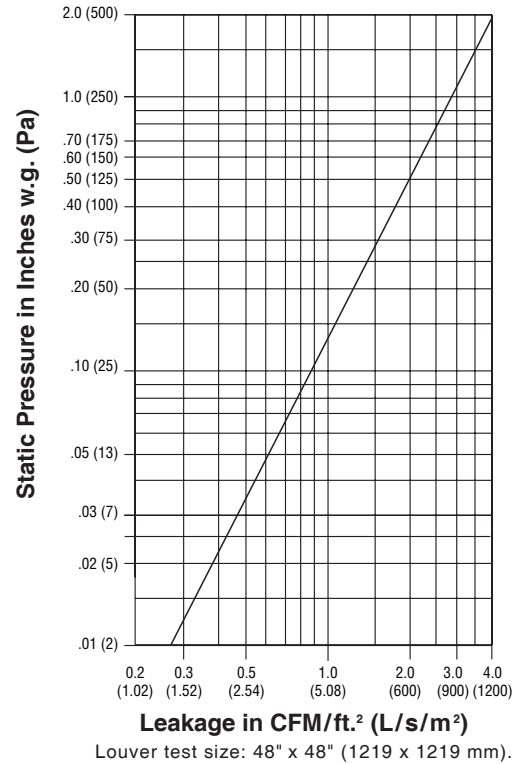


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PERFORMANCE DATA
MODEL: C-DWE-46

FREE AREA in Square Feet and Square Meters

		Width in Inches and Meters								
		12 0.30	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52
Height in Inches and Meters	12 0.30	0.27 0.03	0.44 0.04	0.61 0.06	0.78 0.07	0.95 0.09	1.12 0.10	1.28 0.12	1.45 0.14	1.62 0.15
	18 0.46	0.48 0.04	0.78 0.07	1.09 0.10	1.39 0.13	1.69 0.16	1.99 0.18	2.29 0.21	2.59 0.24	2.90 0.27
	24 0.61	0.69 0.06	1.13 0.10	1.56 0.15	2.00 0.19	2.43 0.23	2.87 0.27	3.30 0.31	3.73 0.35	4.17 0.39
	30 0.76	0.95 0.09	1.54 0.14	2.13 0.20	2.72 0.25	3.31 0.31	3.91 0.36	4.50 0.42	5.09 0.47	5.68 0.53
	36 0.91	1.19 0.11	1.93 0.18	2.68 0.25	3.42 0.32	4.17 0.39	4.91 0.46	5.66 0.53	6.40 0.59	7.15 0.66
	42 1.07	1.33 0.12	2.16 0.20	2.99 0.28	3.83 0.36	4.66 0.43	5.49 0.51	6.32 0.59	7.16 0.66	7.99 0.74
	48 1.22	1.58 0.15	2.56 0.24	3.55 0.33	4.53 0.42	5.52 0.51	6.50 0.60	7.33 0.68	8.47 0.79	9.46 0.88
	54 1.37	1.79 0.17	2.91 0.27	4.02 0.37	5.14 0.48	6.26 0.58	7.38 0.69	8.50 0.79	9.62 0.89	10.73 1.00
	60 1.52	2.03 0.19	3.30 0.31	4.58 0.43	5.85 0.54	7.12 0.66	8.39 0.78	9.66 0.90	10.93 1.02	12.21 1.13
	66 1.68	2.28 0.21	3.70 0.34	5.13 0.48	6.55 0.61	7.98 0.74	9.40 0.87	10.83 1.01	12.25 1.14	13.68 1.27
	72 1.83	2.52 0.23	4.10 0.38	5.68 0.53	7.26 0.67	8.84 0.82	10.42 0.97	11.99 1.11	13.57 1.26	15.15 1.41
	78 1.98	2.60 0.24	4.23 0.39	5.86 0.54	7.49 0.70	9.11 0.85	10.74 1.00	12.37 1.15	14.00 1.30	15.63 1.45
	84 2.13	2.81 0.26	4.57 0.42	6.33 0.59	8.10 0.75	9.86 0.92	11.62 1.08	13.38 1.24	15.14 1.41	16.90 1.57
90 2.29	3.03 0.28	4.92 0.46	6.81 0.63	8.70 0.81	10.60 0.98	12.49 1.16	14.38 1.34	16.28 1.51	18.17 1.69	
96 2.44	3.45 0.32	5.61 0.52	7.77 0.72	9.92 0.92	12.08 1.12	14.24 1.32	16.40 1.52	18.56 1.72	20.72 1.92	

AIR LEAKAGE (Damper fully closed)



AIRFLOW/ WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

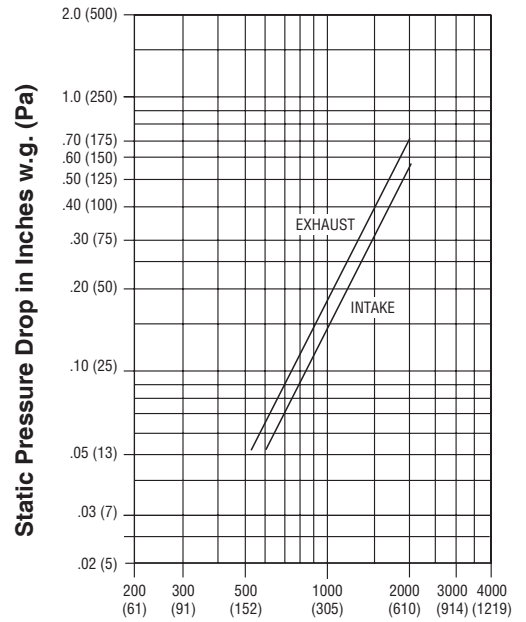
Free Area %	46%
Free Area sq. ft. (sq. m.)	7.34 (0.68)
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1144 fpm (349 m/min.)
Air Volume at 1144 fpm	8397 cfm (3963 l/s)
Free Area Velocity	
Pressure Drop @ 1144 fpm	.19 in. w.g. (47 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the point of beginning water penetration.



Safe-Air Dowco certifies the Model C-DWE-46 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. Seal applies to air performance ratings and water penetration ratings.

PRESSURE DROP



Air Velocity in Feet (Meters) Per Minute Through Free Area
 Louver test size: 48" x 48" (1219 x 1219 mm).
 Standard air density @ 0.075 lbs/ft³.
 Tested to AMCA Fig. 5.5 - 6.5.

Dimensions are in inches (mm).

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