RUSKIN®

3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

ELBD375E GRAVITY EXHAUST COMBINATION LOUVER DAMPER

EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

6" (152) deep, 6063T5 extruded aluminum with .081" (2.1) nominal wall thickness. Caulking surfaces provided.

BLADES

Louver blades: 6063T5 extruded aluminum, .081" (2.1) nominal wall thickness. Drainable blades are positioned at 37½° angle. Blade spacing is approximately 4" (102) center to center.

Backdraft damper blades: .025" (.64) formed aluminum.

SCREEN

⅝" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately ½" (13) to louver depth.

SEALS

Extruded vinyl blade edge seals on rear adjustable blades to provide quiet operation.

FINISH

Mill.

APPROXIMATE SHIPPING WEIGHT

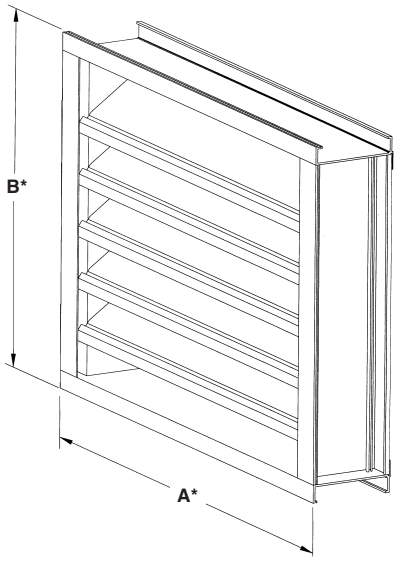
7 lbs. per sq. ft. (34 kg/m²).

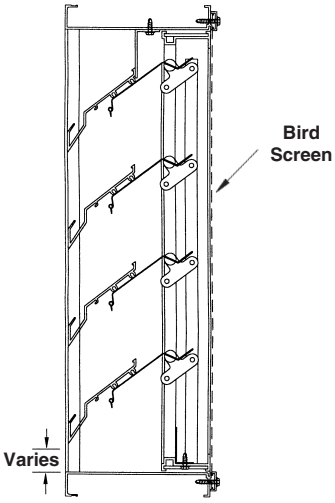
MINIMUM SIZE

12"w x 12"h (305 x 305).

MAXIMUM SIZE

Maximum section size is 60"w x 96"h (1524 x 2438). Louvers larger than the maximum single section size will be shipped in multiple sections to be assembled in the field (field assembly not by Ruskin). Louver assemblies consisting of multiple sections in width and height will require additional structural support provided by other.





FEATURES

The ELBD375E offers:

- Drainable blade stationary louver and backdraft damper combined in a common frame system.
- Approximately 45% free area with backdraft damper blades full open, based on a 48" x 48" (1219 x 1219) size.
- All aluminum construction for low maintenance and high resistance to corrosion.

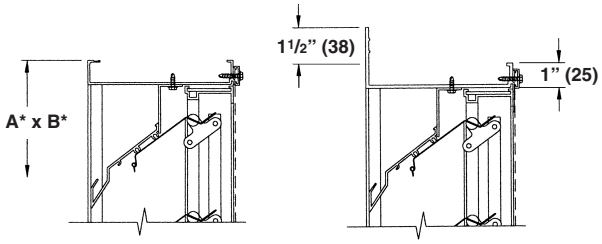
VARIATIONS

Variations to the basic design of this louver are available at additional cost. They include:

- Extended sill.
- Front or rear security bars.
- Installation angles.
- A variety of bird and insect screens.
- Selection of finishes: prime coat, baked enamel (modified fluoropolymer), epoxy, Pearledize 50 & 70, Kynar, clear and color anodize. (Some variation in anodize color consistency is possible.)

Consult Ruskin for other special requirements.

FRAME CONSTRUCTION



Dimensions in inches, parenthesis ( ) indicate millimeters.

*Units furnished ¼" (6) smaller than given opening dimensions.

TAG	QTY.	SIZE		FRAME	VARIATIONS
		A*-WIDE	B*-HIGH		

PROJECT	LOCATION
ARCH./ENGR.	CONTRACTOR
REPRESENTATIVE	DATE

ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

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SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be automatic exhaust dual combination louver damper. Stationary blades with extruded vinyl seals and automatic backdraft blades shall be entirely contained within a 6" (152) frame. Louver components (heads, jambs, sills, blades & mullions) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall limit single section blade span to 60" (1524) and shall be designed to withstand a wind load of 20 lbs. per sq. ft. (.96kPa) Additional structural supports provided by others may be required.

Louvers shall be Ruskin Model ELBD375E construction as follows:

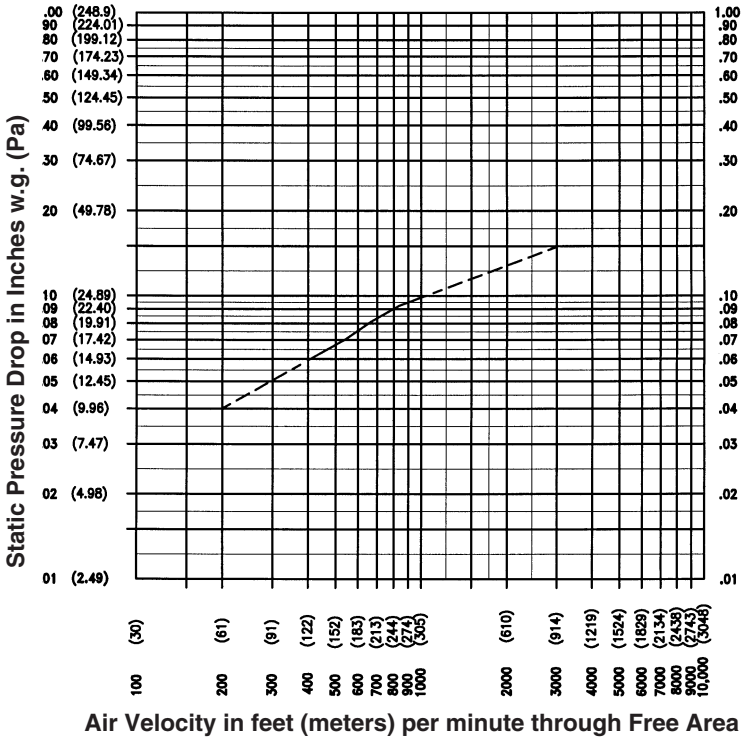
Frame: .081" (2.1) extruded aluminum.

Blades: Stationary blades: .081" (2.1) wall thickness. Gravity backdraft blades: .025" (.064) formed aluminum.

Screen: 5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame.

Finish: Select finish specification from Ruskin Finishes Card.

PRESSURE DROP



FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ELBD375E.

Height – Inches and Meters	12 0.30	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22
12 0.30	**0.19** 0.02	**0.32** 0.03	**0.45** 0.04	**0.58** 0.05	**0.71** 0.07	**0.84** 0.08	**0.98** 0.09
18 0.46	**0.43** 0.04	**0.74** 0.07	**1.05** 0.10	**1.36** 0.13	**1.67** 0.16	**1.98** 0.18	**2.29** 0.21
24 0.61	**0.58** 0.05	**0.99** 0.09	**1.40** 0.13	**1.82** 0.17	**2.23** 0.21	**2.64** 0.25	**3.05** 0.28
30 0.76	**0.83** 0.08	**1.42** 0.13	**2.01** 0.19	**2.60** 0.24	**3.19** 0.30	**3.77** 0.35	**4.36** 0.41
36 0.91	**0.97** 0.09	**1.67** 0.16	**2.36** 0.22	**3.05** 0.28	**3.75** 0.35	**4.44** 0.41	**5.13** 0.48
42 1.07	**1.22** 0.11	**2.09** 0.19	**2.96** 0.28	**3.83** 0.36	**4.70** 0.44	**5.57** 0.52	**6.44** 0.60
48 1.22	**1.37** 0.13	**2.34** 0.22	**3.32** 0.31	**4.29** 0.40	**5.26** 0.49	**6.24** 0.58	7.21 0.67
54 1.37	**1.62** 0.15	**2.77** 0.26	**3.92** 0.36	**5.07** 0.47	**6.22** 0.58	**7.37** 0.69	**8.52** 0.79
60 1.52	**1.76** 0.16	**3.02** 0.28	**4.27** 0.40	**5.53** 0.51	**6.78** 0.63	**8.03** 0.75	**9.29** 0.86
66 1.68	**2.01** 0.19	**3.44** 0.32	**4.87** 0.45	**6.31** 0.59	**7.74** 0.72	**9.17** 0.85	**10.60** 0.99
72 1.83	**2.16** 0.20	**3.69** 0.34	**5.23** 0.49	**6.76** 0.63	**8.30** 0.77	**9.83** 0.91	**11.37** 1.06
78 1.98	**2.41** 0.22	**4.12** 0.38	**5.83** 0.54	**7.54** 0.70	**9.25** 0.86	**10.96** 1.02	**12.68** 1.18
84 2.13	**2.55** 0.24	**4.37** 0.41	**6.18** 0.58	**8.00** 0.74	**9.81** 0.91	**11.63** 1.08	**13.44** 1.25
90 2.29	**2.80** 0.26	**4.79** 0.45	**6.79** 0.63	**8.78** 0.82	**10.77** 1.00	**12.76** 1.19	**14.75** 1.37
96 2.44	**2.95** 0.27	**5.58** 0.52	**7.67** 0.71	**9.76** 0.91	**11.85** 1.10	**13.94** 1.30	**16.03** 1.49

MAXIMUM RECOMMENDED FREE AREA EXHAUST VELOCITY THROUGH LOUVER:
1,500 fpm (457 m/min)

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