

ELBD375E GRAVITY EXHAUST COMBINATION LOUVER DAMPER
EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

6" (152) deep, 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. Caulking surfaces provided.

BLADES

Louver blades: 6063T6 extruded aluminum, .081" (2.1) nominal wall thickness. Drainable blades are positioned at 37 1/2° angle. Blade spacing is approximately 4" (102) center to center.

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

SCREEN

5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

SEALS

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

FINISH

Mill.

APPROXIMATE SHIPPING WEIGHT

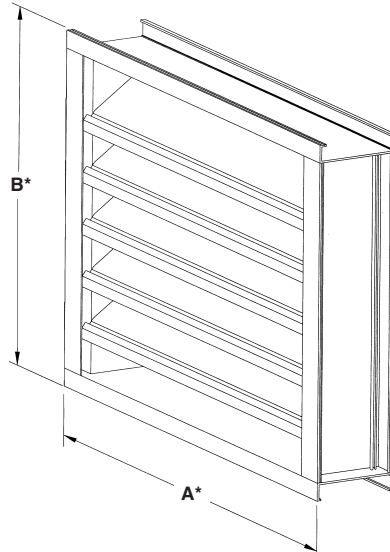
7 lbs. per sq. ft. (34 kg/m²).

MINIMUM SIZE

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

MAXIMUM SIZE

Maximum section size is 60"w x 120"h (1524 x 3048). 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

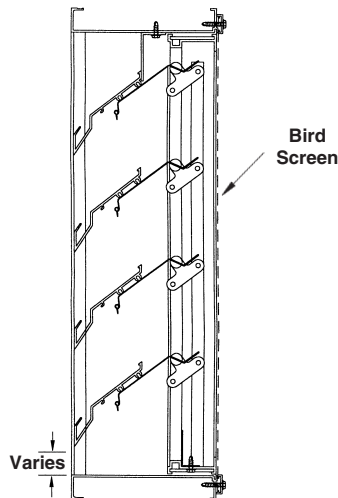
- Drainable blade stationary louver and backdraft damper combined in a common frame system.
- Approximately 45% free area with backdraft damper blades full open, based on a 48" x 48" (1219 x 1219) size.
- All aluminum construction for low maintenance and high resistance to corrosion.

VARIATIONS

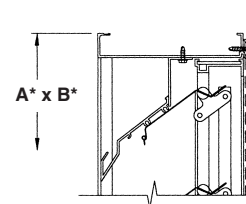
Variations to the basic design of this louver are available at additional cost. They include:

- Extended sill.
- Front or rear security bars.
- Installation angles.
- Blank off panels.
- Universal Sleeve.
- Blade seals.
- A variety of bird and insect screens.
- Selection of finishes: Prime coat, 50% PDVF (modified fluoropolymer), Epoxy, Pearledize 50 and 70, 70% PVDF, Clear and Color Anodized finishes. (Some variation in anodize color consistency is possible).

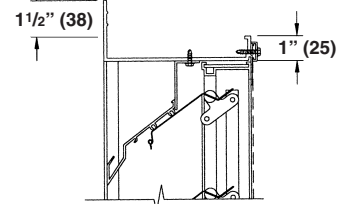
Consult Ruskin for other special requirements.



FRAME CONSTRUCTION



STANDARD



INTEGRAL FLANGE

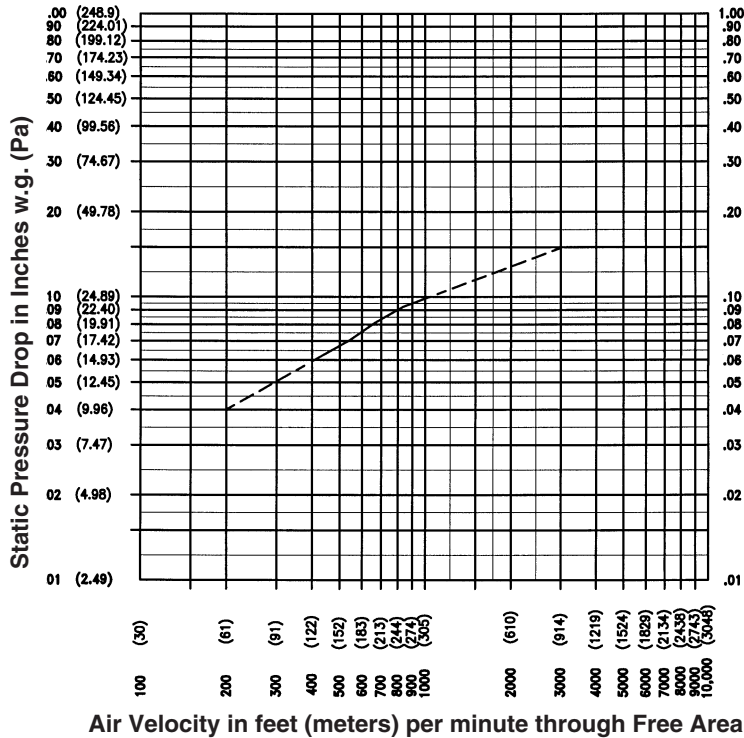
SUGGESTED SPECIFICATION

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 30 lbs. per sq. ft. (1.44kPa) Additional structural sup-ports 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 Brochure.

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

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



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