ELF837
Stationary Louvers
Extruded Aluminum

RUSKIN
AUTHORITY IN AIR CONTROL

APPLICATION

The ELF837 is a 4" deep, extruded aluminum, architecturally styled, stationary louver with a hidden mullion option which allows for a continuous appearance. This louver is designed to protect air intake and exhaust openings on exterior walls.

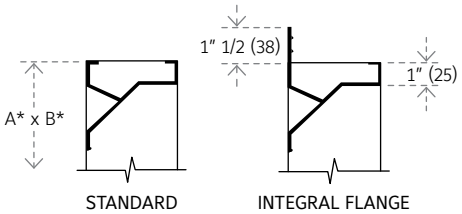
STANDARD CONSTRUCTION

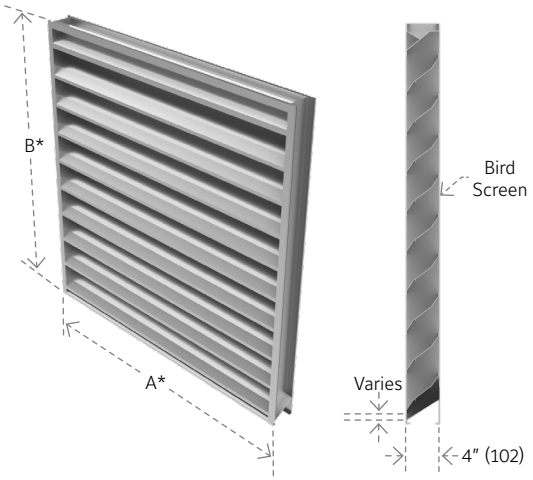
Frame	4" (102) deep, 6063T6 extruded aluminum, 0.081" (2.1) nominal wall thickness. Caulking surfaces provided.
Blades	6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. Blades are positioned at 37 1/2° angle and spaced approximately 4 3/4" (127) center to center.
Screen	3/4" x .051" (19 x 1.3) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.
Finish	Mill.
Minimum Size	12"w x 12"h (305 x 305).
Approximate Shipping Weight	4 lbs./ft. (19.5 kg/m²).
Maximum Factory Assembly Size	Shall be 75 sq. ft. (7m²) per section, not to exceed 120"w x 90"h (3048 x 2286) or 90"w x 120"h (2286 x 3048). Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.
Supports	Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size, assembly configuration or windload.

FEATURES

- 52% Free Area.
- Published performance ratings based on testing in accordance with AMCA Publication 511.
- Beginning point of water penetration at .01 oz./sq.ft. is 696 fpm (212 m/min).
- Architecturally styled, hidden mullions allowing continuous line appearance.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Low pressure drop and low water penetration.

FRAME CONSTRUCTION





5 YEAR LIMITED WARRANTY

ISO9001 CERTIFIED

VARIATIONS

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

- Extended sill.
- Hinged frame.
- Front or rear security bars.
- Filter racks.
- Universal sleeve.
- Blank off panels.
- Installation angles.
- A variety of bird and insect screens.
- Please provide rough opening dimensions for "A" and "B" dimensions. unless ordered as actual size, the louver will be provided 1/2" (12) smaller than "A" and "B" dimensions provided.
- Optional finishes available at additional cost: Prime coat, 50% PVDF (modified fluoropolymer), Epoxy, Pearledize, 70% PVDF, Clear and Anodized finishes. (Some variation in anodize color consistency is possible).

Consult Ruskin for other special requirements.

Note:
- Dimensions in inches, parenthesis ( ) indicate millimeters.
- Units furnished 1/4" (6) smaller than given opening dimensions.

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FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ELF837.

Width – Inches and Meters

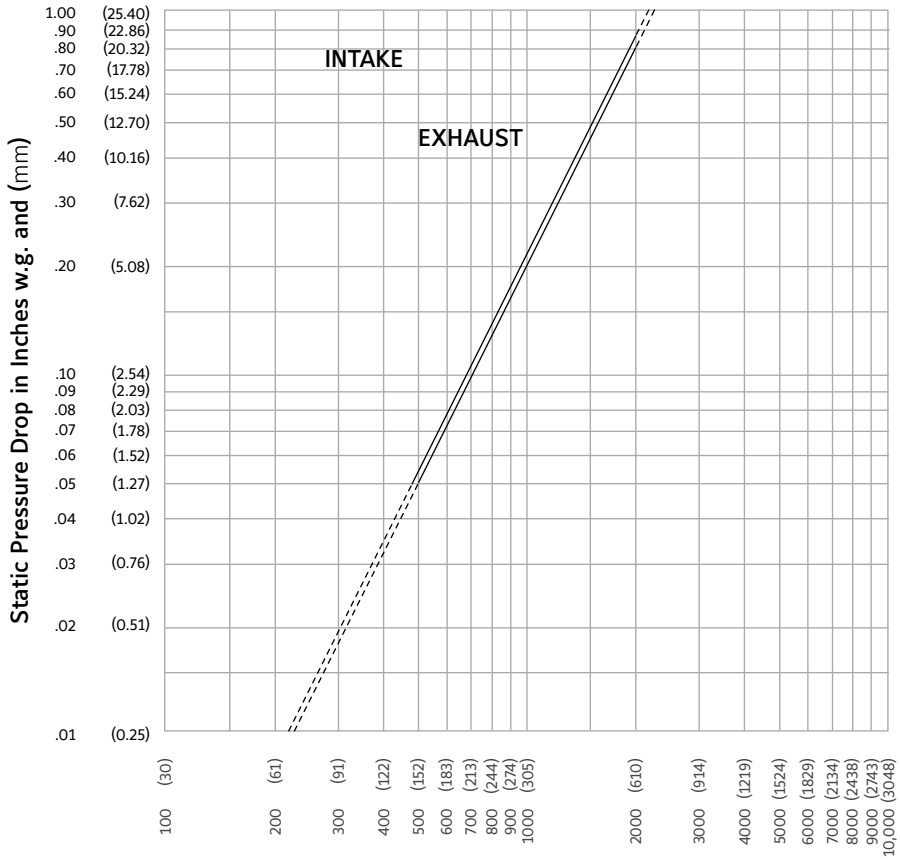
Height – Inches and Meters

HEIGHT	12 0.30	18 0.45	24 0.60	30 0.75	36 0.90	42 1.05	48 1.20	54 1.35	60 1.50	66 1.65	72 1.80	78 1.95	84 2.10	90 2.25	96 2.40	102 2.55	108 2.70	114 2.85	120 3.00
12 0.30	**0.19** 0.02	**0.30** 0.03	**0.41** 0.04	**0.52** 0.05	**0.64** 0.06	**0.75** 0.07	**0.86** 0.08	**0.97** 0.09	**1.09** 0.10	**1.20** 0.11	**1.31** 0.12	**1.42** 0.13	**1.53** 0.14	**1.65** 0.15	**1.76** 0.16	**1.87** 0.17	**1.98** 0.18	**2.10** 0.19	**2.21** 0.21
18 0.45	**0.39** 0.04	**0.62** 0.06	**0.86** 0.08	**1.09** 0.10	**1.33** 0.12	**1.56** 0.15	**1.80** 0.17	**2.03** 0.19	**2.26** 0.21	**2.50** 0.23	**2.73** 0.25	**2.97** 0.28	**3.20** 0.30	**3.44** 0.32	**3.67** 0.34	**3.91** 0.36	**4.14** 0.38	**4.37** 0.41	**4.61** 0.43
24 0.60	**0.79** 0.07	**1.26** 0.12	**1.73** 0.16	**2.20** 0.20	**2.67** 0.25	**3.14** 0.29	**3.61** 0.34	**4.08** 0.38	**4.55** 0.42	**5.02** 0.47	**5.50** 0.51	**5.97** 0.55	**6.44** 0.60	**6.91** 0.64	**7.38** 0.69	**7.85** 0.73	**8.32** 0.77	**8.79** 0.82	**9.26** 0.86
30 0.75	**0.99** 1.11	**1.58** 1.81	**2.17** 2.50	**2.77** 3.20	**3.36** 3.89	**3.95** 4.58	**4.55** 5.28	**5.14** 5.97	**5.73** 6.67	**6.33** 7.36	**6.92** 8.05	**7.51** 8.75	**8.11** 9.44	**8.70** 10.14	**9.29** 10.83	**9.88** 11.52	**10.48** 12.22	**11.07** 12.91	**11.66** 13.61
36 0.90	**1.19** 0.11	**1.91** 0.18	**2.62** 0.24	**3.34** 0.31	**4.05** 0.38	**4.77** 0.44	**5.48** 0.51	**6.20** 0.58	**6.91** 0.64	**7.63** 0.71	**8.34** 0.78	**9.06** 0.84	**9.77** 0.91	**10.49** 0.98	**11.20** 1.04	**11.92** 1.11	**12.63** 1.17	**13.35** 1.24	**14.06** 1.31
42 1.05	**1.40** 0.13	**2.23** 0.21	**3.07** 0.29	**3.91** 0.36	**4.74** 0.44	**5.58** 0.52	**6.42** 0.60	**7.26** 0.67	**8.09** 0.75	**8.93** 0.83	**9.77** 0.91	**10.60** 0.99	**11.44** 1.06	**12.28** 1.14	**13.11** 1.22	**13.95** 1.30	**14.79** 1.38	**15.63** 1.45	**16.46** 1.53
48 1.20	**1.79** 0.17	**2.86** 0.27	**3.94** 0.37	**5.01** 0.47	**6.09** 0.57	**7.16** 0.67	**8.23** 0.77	**9.31** 0.87	**10.38** 0.97	**11.45** 1.07	**12.53** 1.17	**13.60** 1.27	**14.68** 1.36	**15.75** 1.46	**16.82** 1.56	**17.90** 1.66	**18.97** 1.76	**20.05** 1.86	**21.12** 1.96
54 1.35	**1.99** 0.19	**3.19** 0.30	**4.38** 0.41	**5.58** 0.52	**6.78** 0.63	**7.97** 0.74	**9.17** 0.85	**10.36** 0.96	**11.56** 1.08	**12.76** 1.19	**13.95** 1.30	**15.15** 1.41	**16.34** 1.52	**17.54** 1.63	**18.74** 1.74	**19.93** 1.85	**21.13** 1.96	**22.32** 2.08	**23.52** 2.19
60 1.50	**2.20** 0.20	**3.51** 0.33	**4.83** 0.45	**6.15** 0.57	**7.47** 0.69	**8.79** 0.82	**10.10** 0.94	**11.42** 1.06	**12.74** 1.18	**14.06** 1.31	**15.38** 1.43	**16.69** 1.55	**18.01** 1.68	**19.33** 1.80	**20.65** 1.92	**21.97** 2.04	**23.28** 2.17	**24.60** 2.29	**25.92** 2.41
66 1.65	**2.40** 0.22	**3.84** 0.36	**5.28** 0.49	**6.72** 0.62	**8.16** 0.76	**9.60** 0.89	**11.04** 1.03	**12.48** 1.16	**13.92** 1.29	**15.36** 1.43	**16.80** 1.56	**18.24** 1.70	**19.68** 1.83	**21.12** 1.96	**22.56** 2.10	**24.00** 2.23	**25.44** 2.37	**26.88** 2.50	**28.32** 2.63
72 1.80	**2.79** 0.26	**4.47** 0.42	**6.15** 0.57	**7.82** 0.73	**9.50** 0.88	**11.18** 1.04	**12.85** 1.20	**14.53** 1.35	**16.21** 1.51	**17.88** 1.66	**19.56** 1.82	**21.24** 1.98	**22.92** 2.13	**24.59** 2.29	**26.27** 2.44	**27.95** 2.60	**29.62** 2.75	**31.30** 2.91	**32.98** 3.07
78 1.95	**3.00** 0.28	**4.80** 0.45	**6.60** 0.61	**8.39** 0.78	**10.19** 0.95	**11.99** 1.12	**13.79** 1.28	**15.59** 1.45	**17.39** 1.62	**19.19** 1.78	**20.99** 1.95	**22.78** 2.12	**24.58** 2.29	**26.38** 2.45	**28.18** 2.62	**29.98** 2.79	**31.78** 2.96	**33.58** 3.12	**35.37** 3.29
84 2.10	**3.20** 0.30	**5.12** 0.48	**7.04** 0.65	**8.96** 0.83	**10.88** 1.01	**12.80** 1.19	**14.73** 1.37	**16.65** 1.55	**18.57** 1.73	**20.49** 1.91	**22.41** 2.08	**24.33** 2.26	**26.25** 2.44	**28.17** 2.62	**30.09** 2.80	**32.01** 2.98	**33.93** 3.16	**35.85** 3.33	**37.77** 3.51
90 2.25	**3.40** 0.32	**5.45** 0.51	**7.49** 0.70	**9.53** 0.89	**11.58** 1.08	**13.62** 1.27	**15.66** 1.46	**17.70** 1.65	**19.75** 1.84	**21.79** 2.03	**23.83** 2.22	**25.87** 2.41	**27.92** 2.60	**29.96** 2.79	**32.00** 2.98	**34.05** 3.17	**36.09** 3.36	**38.13** 3.55	**40.17** 3.74
96 2.40	**3.80** 0.35	**6.08** 0.57	**8.36** 0.78	**10.64** 0.99	**12.92** 1.20	**15.20** 1.41	**17.48** 1.63	**19.76** 1.84	**22.04** 2.05	**24.31** 2.26	**26.59** 2.47	**28.87** 2.69	**31.15** 2.90	**33.43** 3.11	**35.71** 3.32	**37.99** 3.53	**40.27** 3.75	**42.55** 3.96	**44.83** 4.17
102 2.55	**4.00** 0.37	**6.40** 0.60	**8.81** 0.82	**11.21** 1.04	**13.61** 1.27	**16.01** 1.49	**18.41** 1.71	**20.81** 1.94	**23.21** 2.16	**25.62** 2.38	**28.02** 2.61	**30.42** 2.83	**32.82** 3.05	**35.22** 3.28	**37.62** 3.50	**40.03** 3.72	**42.43** 3.95	**44.83** 4.17	**47.23** 4.39
108 2.70	**4.21** 0.39	**6.73** 0.63	**9.25** 0.86	**11.78** 1.10	**14.30** 1.33	**16.82** 1.56	**19.35** 1.80	**21.87** 2.03	**24.39** 2.27	**26.92** 2.50	**29.44** 2.74	**31.96** 2.97	**34.49** 3.21	**37.01** 3.44	**39.54** 3.68	**42.06** 3.91	**44.58** 4.15	**47.11** 4.38	**49.63** 4.62
114 2.85	**4.41** 0.41	**7.05** 0.66	**9.70** 0.90	**12.35** 1.15	**14.99** 1.39	**17.64** 1.64	**20.28** 1.89	**22.93** 2.13	**25.57** 2.38	**28.22** 2.62	**30.86** 2.87	**33.51** 3.12	**36.16** 3.36	**38.80** 3.61	**41.45** 3.85	**44.09** 4.10	**46.74** 4.35	**49.38** 4.59	**52.03** 4.84
120 3.00	**4.80** 0.45	**7.69** 0.71	**10.57** 0.98	**13.45** 1.25	**16.33** 1.52	**19.22** 1.79	**22.10** 2.06	**24.98** 2.32	**27.86** 2.59	**30.74** 2.86	**33.63** 3.13	**36.51** 3.40	**39.39** 3.66	**42.27** 3.93	**45.16** 4.20	**48.04** 4.47	**50.92** 4.74	**53.80** 5.00	**56.69** 5.27

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PRESSURE DROP



Ratings do not include the effect of a bird screen.

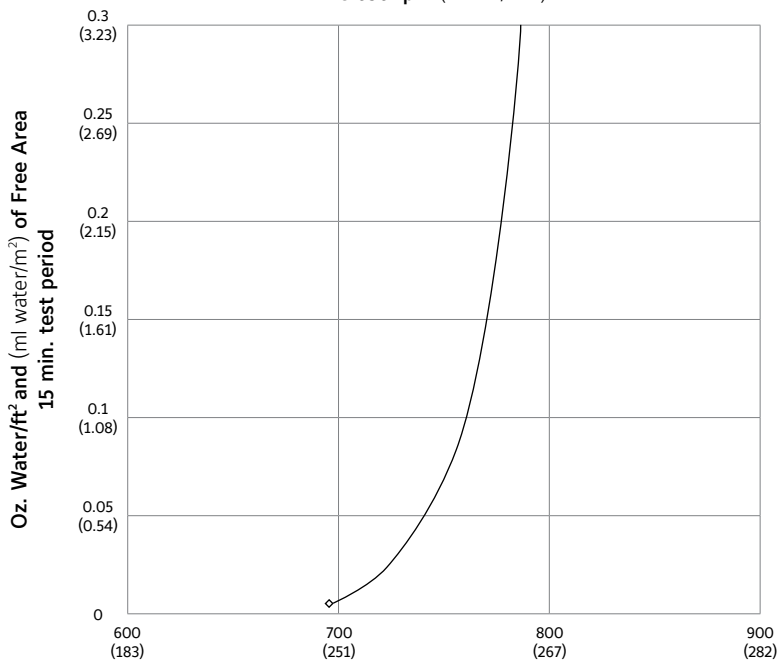
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PERFORMANCE DATA

AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq. ft. of water penetration.

Water penetration
Test size 48" wide X 48" high (1219 X 1219)
Beginning point of water penetration at .01 oz./sq.ft.
is 696 fpm (212 m/min).



Ruskin Manufacturing Company certifies that the louvers shown herein are 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 ratings and water penetration ratings only.

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary type with downspouts in jambs and mullions. Louvers shall have a minimum of 52% free area based on a 48" wide x 48" high (1219 x 1219) size. Stationary blades shall be contained within a 4" (102) 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 span between visible mullions to 10 feet (3) and shall incorporate structural supports required to withstand a wind load of 20 lbs. per sq. ft. (.96kPa) (equivalent of a 90 mph wind [145 KPH] - specifier may substitute any loading required).

Louvers shall be Ruskin model ELF837 extruded 6063T6 aluminum alloy construction as follows:

Frame: 4" (102) deep, .081" (2.1) wall thickness.

Blades: .081" (2.1) wall thickness. Blades are positioned at 37 1/2° angle and spaced approximately 4 3/4" (121) center to center.

Screen: 3/4" x .051" (19 x 1.3) expanded, flattened aluminum in removable frame.

Finish: Select finish specification from Ruskin Finishes Brochure.

Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance & Water Penetration must be submitted for approval prior to fabrication and must demonstrate pressure drop and water penetration equal to or less than the Ruskin model specified.

LINKS TO IMPORTANT DOCUMENTS

Document Title
Paint Finishes and Color Guide
Limited Warranty Document

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