

BLD723

Bold Line Drainable Louver

APPLICATION

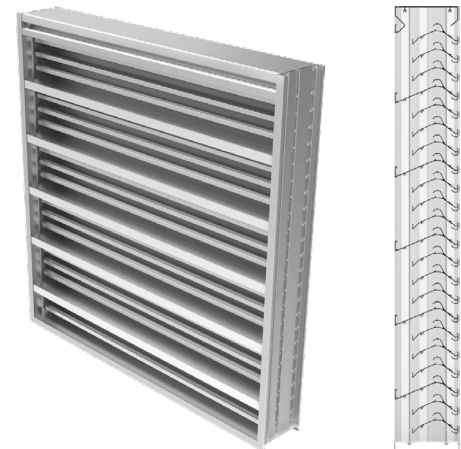
The BLD723 is a bold line drainable louver with a 7" deep wind-driven rain accent blade and 5" deep wind-driven rain style blade in a variety of configurations for aesthetics. The BLD723 also has hidden mullion for continuous blade architectural- look.

STANDARD CONSTRUCTION

Frame	7" (178) deep, 6063T6 extruded aluminum with .094" (2.4) nominal wall thickness.
Blade	7" - 0.070" (1.8) 6063T6 extruded aluminum. 5" - 0.060" (1.5) 6063T6 extruded aluminum.
Screen	5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame.
Finish	Mill.
Approximate Shipping Weight	8 lbs./sq. ft. (39 kg/m ²).
Minimum Size	12" x 12" (305 x 305).
Maximum Size	120" x 90" (3048 x 2286). Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.
Installation	The BLD723 must be installed per the appropriate installation detail. Reference the appropriate separate installation instruction sheets.
Extended Sill	Formed Aluminum 0.080" thk.

FEATURES

- ▶ 49% Free Area.
- ▶ Published performance ratings based on testing in accordance with AMCA 500-L.
- ▶ Hidden mullion for continuous blade architectural-look.
- ▶ Closely spaced horizontal blades minimize wind-driven rain reducing damage and additional operating expenses.
- ▶ Aluminum construction for low maintenance and high resistance to corrosion.



PERFORMANCE RATINGS

- ▶ Windload 20 psf.
- ▶ Wind Driven Rain: Class A at 8"/hr. and 50 mph up to 1380 fpm fav.
- ▶ Pressure Drop is 0.175" wg at 1000 fpm fav.

LOUVER OPTIONS

- ▶ Variety of bird screens.
- ▶ Flange frame head and sill.
- ▶ Extended sill.
- ▶ Front flange.
- ▶ CMU installation available.
- ▶ Concrete.
- ▶ Steel.
- ▶ Blankoff.
- ▶ Installation angles.
- ▶ Optional finishes available at additional cost: Prime coat, 50% PVDF (modified fluoropolymer), Epoxy, Acrodize, 70% PVDF.

Note:

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

FREE AREA GUIDE

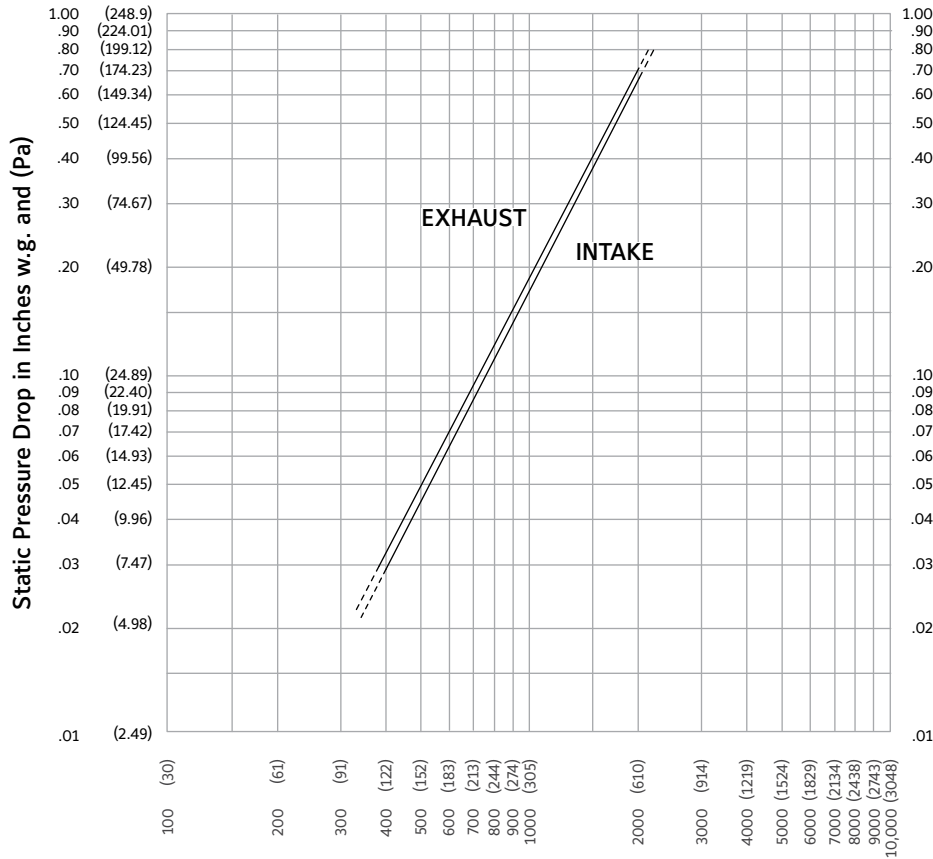
Free Area Guide shows free area in ft² and m² for various sizes of BLD723.

Width – Inches and Meters

HEIGHT	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00
12 0.30	0.26 0.02	0.43 0.04	0.60 0.06	0.77 0.07	0.94 0.09	1.10 0.10	1.27 0.12	1.44 0.13	1.61 0.15	1.78 0.17	1.95 0.18	2.11 0.20	2.28 0.21	2.45 0.23	2.62 0.24	2.79 0.26	2.95 0.27	3.12 0.29	3.29 0.31
18 0.45	0.45 0.04	0.73 0.07	1.02 0.09	1.31 0.12	1.59 0.15	1.88 0.17	2.17 0.20	2.45 0.23	2.74 0.25	3.03 0.28	3.31 0.31	3.60 0.33	3.89 0.36	4.17 0.39	4.46 0.41	4.75 0.44	5.03 0.47	5.32 0.49	5.61 0.52
24 0.60	0.63 0.06	1.04 0.10	1.44 0.13	1.85 0.17	2.25 0.21	2.66 0.25	3.06 0.28	3.47 0.32	3.87 0.36	4.28 0.40	4.68 0.44	5.09 0.47	5.49 0.51	5.90 0.55	6.30 0.59	6.71 0.62	7.11 0.66	7.52 0.70	7.92 0.74
30 0.75	0.88 0.08	1.44 0.13	2.01 0.19	2.57 0.24	3.13 0.29	3.69 0.34	4.26 0.40	4.82 0.45	5.38 0.50	5.94 0.55	6.51 0.61	7.07 0.66	7.63 0.71	8.20 0.76	8.76 0.81	9.32 0.87	9.88 0.92	10.45 0.97	11.01 1.02
36 0.90	1.06 0.10	1.75 0.16	2.43 0.23	3.11 0.29	3.79 0.35	4.47 0.42	5.15 0.48	5.83 0.54	6.51 0.61	7.20 0.67	7.88 0.73	8.56 0.80	9.24 0.86	9.92 0.92	10.60 0.99	11.28 1.05	11.96 1.11	12.64 1.18	13.33 1.24
42 1.05	1.25 0.12	2.05 0.19	2.85 0.26	3.65 0.34	4.45 0.41	5.25 0.49	6.05 0.56	6.85 0.64	7.65 0.71	8.45 0.79	9.25 0.86	10.04 0.93	10.84 1.01	11.64 1.08	12.44 1.16	13.24 1.23	14.04 1.31	14.84 1.38	15.64 1.45
48 1.20	1.50 0.14	2.45 0.23	3.41 0.32	4.37 0.41	5.33 0.50	6.28 0.58	7.24 0.67	8.20 0.76	9.16 0.85	10.11 0.94	11.07 1.03	12.03 1.12	12.98 1.21	13.94 1.30	14.90 1.39	15.86 1.47	16.81 1.56	17.77 1.65	18.73 1.74
54 1.35	1.68 0.20	2.76 0.26	3.83 0.36	4.91 0.46	5.98 0.56	7.06 0.66	8.14 0.76	9.21 0.86	10.29 0.96	11.36 1.06	12.44 1.16	13.51 1.26	14.59 1.36	15.67 1.46	16.74 1.56	17.82 1.66	18.89 1.76	19.97 1.86	21.05 1.96
60 1.50	1.87 0.17	3.06 0.28	4.25 0.40	5.45 0.51	6.64 0.62	7.84 0.73	9.03 0.84	10.23 0.95	11.42 1.06	12.61 1.17	13.81 1.28	15.00 1.40	16.20 1.51	17.39 1.62	18.58 1.73	19.78 1.84	20.97 1.95	22.17 2.06	23.36 2.17
66 1.65	2.11 0.20	3.46 0.32	4.82 0.45	6.17 0.57	7.52 0.70	8.87 0.83	10.22 0.95	11.58 1.08	12.93 1.20	14.28 1.33	15.63 1.45	16.98 1.58	18.34 1.71	19.69 1.83	21.04 1.96	22.39 2.08	23.74 2.21	25.10 2.33	26.45 2.46
72 1.80	2.30 0.21	3.77 0.35	5.24 0.49	6.71 0.62	8.18 0.76	9.65 0.90	11.12 1.03	12.59 1.17	14.06 1.31	15.53 1.44	17.00 1.58	18.47 1.72	19.94 1.85	21.41 1.99	22.88 2.13	24.35 2.26	25.82 2.40	27.29 2.54	28.76 2.68
78 1.95	2.48 0.23	4.07 0.38	5.66 0.53	7.25 0.67	8.84 0.82	10.43 0.97	12.01 1.12	13.60 1.27	15.19 1.41	16.78 1.56	18.37 1.71	19.96 1.86	21.55 2.00	23.14 2.15	24.72 2.30	26.31 2.45	27.90 2.59	29.49 2.74	31.08 2.89
84 2.10	2.73 0.25	4.48 0.42	6.22 0.58	7.97 0.74	9.72 0.90	11.46 1.07	13.21 1.23	14.96 1.39	16.70 1.55	18.45 1.72	20.19 1.88	21.94 2.04	23.69 2.20	25.43 2.37	27.18 2.53	28.93 2.69	30.67 2.85	32.42 3.02	34.17 3.18
90 2.25	2.91 0.27	4.78 0.44	6.64 0.62	8.51 0.79	10.37 0.96	12.24 1.14	14.10 1.31	15.97 1.49	17.83 1.66	19.70 1.87	21.56 2.01	23.43 2.18	25.29 2.35	27.16 2.53	29.03 2.70	30.89 2.87	32.75 3.05	34.62 3.22	36.48 3.39
96 2.40	3.10 0.29	5.08 0.47	7.07 0.66	9.05 0.84	11.03 1.03	13.02 1.21	15.00 1.39	16.98 1.58	18.97 1.76	20.95 1.95	22.93 2.13	24.92 2.32	26.90 2.50	28.88 2.69	30.87 2.87	32.85 3.05	34.83 3.24	36.82 3.42	38.80 3.61
102 2.55	3.35 0.31	5.49 0.51	7.63 0.71	9.77 0.91	11.91 1.11	14.05 1.31	16.19 1.51	18.33 1.71	20.47 1.90	22.62 2.10	24.76 2.30	26.90 2.50	29.04 2.70	31.18 2.90	33.32 3.10	35.46 3.30	37.60 3.50	39.75 3.70	41.89 3.90
108 2.70	3.53 0.33	5.79 0.54	8.05 0.75	10.31 0.96	12.57 1.17	14.83 1.38	17.09 1.59	19.35 1.80	21.61 2.01	23.87 2.22	26.13 2.43	28.39 2.64	30.65 2.85	32.90 3.06	35.16 3.27	37.42 3.48	39.68 3.69	41.94 3.90	44.20 4.11
114 2.85	3.72 0.35	6.09 0.57	8.47 0.79	10.85 1.01	13.23 1.23	15.61 1.45	17.98 1.67	20.36 1.89	22.74 2.11	25.12 2.34	27.49 2.56	29.87 2.78	32.25 3.00	34.63 3.22	37.01 3.44	39.38 3.66	41.76 3.88	44.14 4.11	46.52 4.33
120 3.00	3.96 0.37	6.50 0.60	9.03 0.84	11.57 1.08	14.11 1.31	16.64 1.55	19.18 1.78	21.71 2.02	24.25 2.26	26.78 2.49	29.32 2.73	31.86 2.96	34.39 3.20	36.93 3.43	39.46 3.67	42.00 3.91	44.53 4.14	47.07 4.38	49.61 4.61

PRESSURE DROP

Pressure Drop testing performed on 48"x48" ((1219 x 1219) unit)



Air Velocity in feet and (meters) per minute through Free Area
(Data corrected to standard air density and AMCA figure tested to 5.5)

Ratings do not include the effect of a bird screen.



Ruskin Company certifies that the BLD723 louver 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. The AMCA Certified Ratings Seal applies to air performance ratings and wind driven ratings only.

WIND-DRIVEN RAIN PERFORMANCE

Test size is 1m x 1m (39" x 39") core area, 1.06m x 1.09m (41.75" x 43.25") nominal. Free Area of test louver is 5.60ft².

Wind Velocity mph (kph)	Rain Fall Rate In./hr. (mm/hr.)	Core Velocity ₁ FPM (m/s)	Airflow cfm (m ³ /min)	Free Area Velocity FPM (m/s)	Effectiveness Ratio	Class _{3,4}	Discharge Loss Class ₅ Intake
29 (46.4)	3" (76)	590 (3)	6,353 (180)	1135 (5.8)	99.5%	A	3
50 (80.5)	8" (203)	691 (3.5)	7,439 (211)	1328 (7.0)	99.1%	A	3

NOTES

1. Core area is the open area of the louver face (face area less louver frames).

Core Velocity is the airflow velocity through the Core Area of the louver (1m x 1m). 5 m/s is the maximum core velocity utilized in this test.

2. Free Area of test size is calculated per AMCA standard 500-L.

3. Wind Driven Rain Penetration Classes:

Class Effectiveness

A	1 to .99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

4. The BLD723 provides class A performance at all velocities up to and including 3.5 m/s core velocity.

5. Discharge Loss Coefficient is calculated by dividing a louvers' actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.

Class Discharge Loss Coefficient

1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

(The higher the coefficient, the less resistance to airflow.)

6. The AMCA Wind Driven Rain Test is performed in a laboratory environment and incorporates controlled wind, water and system airflow effects. In actual field installations, storms may create conditions not considered by the AMCA test. Penthouse and similar applications where wind can pass through multiple louvers in an enclosure is another condition that is not simulated by AMCA tests. These applications can create elevated water penetration rates through any louver. Because of these uncontrolled situations it is recommended that provisions to manage water penetration through louvers be included in the building design.

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 49% free area based on a 48" wide x 48" high (1219 x1219) size. Stationary blades shall be contained within a 7" (1.8) 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 the contractor from factory assembled louver sections to provide overall sizes required.

Material

Frame: .094" (2.4) wall thickness.

Blades: 7" -0.070" (1.8) 6063T6 extruded aluminum.
5" - 0.060" (1.5) 6063T6 extruded 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.

LINKS TO IMPORTANT DOCUMENTS

Document Title
Angle Installation Guide 11-19
Paint Finishes and Color Guide
Limited Warranty Document



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