

BLD723

Bold Line Drainable Louver

APPLICATION

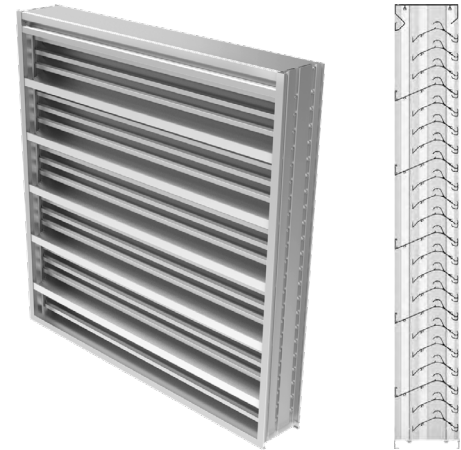
The BLD723 is a bold line drainable louver with a 7" deep wind-driven rain accent blade and 5" deep wind-driven rain style blade in a variety of configurations for aesthetics. The BLD723 also has hidden mullion for continuous blade architectural look.

STANDARD CONSTRUCTION

Frame	7" (178) deep, 6063T6 extruded aluminum with .094" (2.4) nominal wall thickness.
Blade	7" accent blade, 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	8" x 8" (203 x 203)
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

- ▶ 46% Free Area
- ▶ 30 psf
- ▶ 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
- ▶ Beginning point of water is above 1250 fpm
- ▶ Aluminum construction for low maintenance and high resistance to corrosion



LOUVER OPTIONS

- ▶ Variety of bird screens
- ▶ Hidden or visible mullion
- ▶ Extended sill
- ▶ Front flange
- ▶ Security bars
- ▶ Sleeves
- ▶ Filter racks
- ▶ 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 can be furnished actual size or with size deducts.

FREE AREA GUIDE

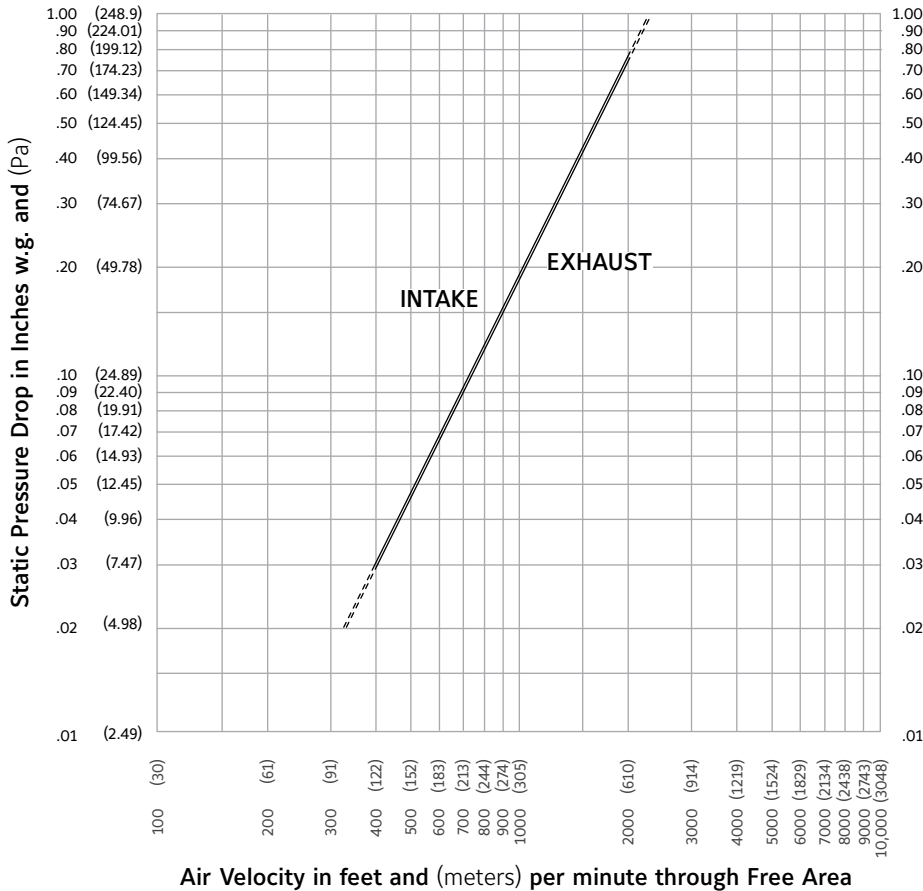
Free Area Guide shows free area in ft² and m² for various sizes of BLD723.

Width – Inches and Meters

		8	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
		0.20	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
Height – Inches and Meters	8	0.09 0.01	0.28 0.03	0.45 0.04	0.62 0.06	0.79 0.07	0.96 0.09	1.13 0.10	1.30 0.12	1.47 0.14	1.64 0.15	1.81 0.17	1.98 0.18	2.15 0.20	2.32 0.22	2.49 0.23	2.66 0.25	2.83 0.26	3.00 0.28	3.17 0.30	3.34 0.31
	12	0.16 0.01	0.28 0.03	0.45 0.04	0.62 0.06	0.79 0.07	0.96 0.09	1.13 0.10	1.30 0.12	1.47 0.14	1.64 0.15	1.81 0.17	1.98 0.18	2.15 0.20	2.32 0.22	2.49 0.23	2.66 0.25	2.83 0.26	3.00 0.28	3.17 0.30	3.34 0.31
	18	0.28 0.03	0.47 0.04	0.76 0.07	1.05 0.10	1.34 0.12	1.63 0.15	1.92 0.18	2.21 0.21	2.50 0.23	2.79 0.26	3.08 0.29	3.37 0.31	3.67 0.34	3.96 0.37	4.25 0.39	4.54 0.42	4.83 0.45	5.12 0.48	5.41 0.50	5.70 0.53
	24	0.39 0.06	0.66 0.06	1.07 0.10	1.48 0.14	1.90 0.18	2.31 0.21	2.72 0.25	3.13 0.29	3.54 0.33	3.95 0.37	4.36 0.41	4.77 0.44	5.18 0.48	5.59 0.52	6.00 0.56	6.41 0.60	6.82 0.63	7.23 0.67	7.64 0.71	8.06 0.75
	30	0.54 0.08	0.92 0.08	1.49 0.13	2.06 0.19	2.63 0.24	3.20 0.29	3.78 0.34	4.35 0.40	4.92 0.45	5.49 0.50	6.06 0.55	6.63 0.61	7.20 0.66	7.77 0.71	8.34 0.76	8.91 0.81	9.48 0.87	10.05 0.92	10.63 0.97	11.21 1.02
	36	0.65 0.06	1.12 0.10	1.81 0.17	2.50 0.23	3.19 0.30	3.88 0.36	4.57 0.43	5.26 0.49	5.95 0.55	6.64 0.62	7.33 0.68	8.02 0.75	8.72 0.81	9.41 0.87	10.10 0.94	10.79 1.00	11.48 1.07	12.17 1.13	12.86 1.20	13.55 1.26
	42	0.77 0.07	1.31 0.12	2.12 0.20	2.93 0.27	3.74 0.35	4.55 0.42	5.36 0.50	6.18 0.57	6.99 0.65	7.80 0.73	8.51 0.80	9.42 0.88	10.23 0.95	11.04 1.03	11.85 1.10	12.66 1.18	13.47 1.25	14.29 1.33	15.10 1.40	15.91 1.48
	48	0.92 0.09	1.57 0.15	2.54 0.24	3.51 0.33	4.48 0.42	5.45 0.51	6.42 0.60	7.39 0.69	8.37 0.78	9.34 0.87	10.31 0.96	11.28 1.05	12.25 1.14	13.22 1.23	14.19 1.32	15.16 1.41	16.13 1.50	17.11 1.59	18.08 1.68	19.05 1.77
	54	1.03 0.10	1.76 0.16	2.85 0.27	3.94 0.37	5.04 0.47	6.13 0.57	7.22 0.67	8.31 0.77	9.40 0.87	10.49 0.98	11.58 1.08	12.67 1.18	13.77 1.28	14.86 1.38	15.95 1.48	17.04 1.58	18.13 1.69	19.22 1.79	20.31 1.89	21.40 1.99
	60	1.15 0.11	1.96 0.18	3.17 0.29	4.38 0.41	5.59 0.52	6.80 0.63	8.01 0.75	9.22 0.86	10.44 0.97	11.65 1.08	12.86 1.20	14.07 1.31	15.28 1.42	16.49 1.53	17.70 1.65	18.91 1.76	20.13 1.87	21.34 1.98	22.55 2.10	23.76 2.21
	66	1.30 0.12	2.21 0.21	3.59 0.33	4.96 0.46	6.33 0.59	7.70 0.72	9.07 0.84	10.44 0.97	11.81 1.10	13.19 1.23	14.56 1.35	15.93 1.48	17.30 1.61	18.67 1.74	20.04 1.86	21.41 1.99	22.79 2.12	24.16 2.25	25.53 2.37	26.90 2.50
	72	1.41 0.13	2.41 0.22	3.90 0.36	5.39 0.50	6.88 0.64	8.37 0.78	9.87 0.92	11.36 1.06	12.85 1.19	14.34 1.33	15.83 1.47	17.32 1.61	18.82 1.75	20.31 1.89	21.80 2.03	23.29 2.17	24.78 2.30	26.27 2.44	27.76 2.58	29.26 2.72
	78	1.53 0.14	2.60 0.24	4.21 0.39	5.83 0.54	7.44 0.69	9.05 0.84	10.66 0.99	12.27 1.14	13.88 1.29	15.50 1.44	17.11 1.59	18.72 1.74	20.33 1.89	21.94 2.04	23.55 2.19	25.17 2.34	26.78 2.49	28.39 2.64	30.00 2.79	31.61 2.94
	84	1.68 0.16	2.86 0.27	4.63 0.43	6.40 0.60	8.18 0.76	9.95 0.93	11.72 1.09	13.49 1.25	15.26 1.42	17.04 1.58	18.81 1.75	20.58 1.91	22.35 2.08	24.12 2.24	25.89 2.41	27.67 2.57	29.44 2.74	31.21 2.90	32.98 3.07	34.75 3.23
	90	1.79 0.17	3.05 0.28	4.95 0.46	6.84 0.64	8.73 0.81	10.62 0.99	12.51 1.16	14.41 1.34	16.30 1.52	18.19 1.69	20.08 1.87	21.97 2.04	23.87 2.22	25.76 2.40	27.65 2.57	29.54 2.75	31.43 2.92	33.33 3.10	35.22 3.28	37.11 3.45

PRESSURE DROP

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



Ratings do not include the effect of a bird screen.



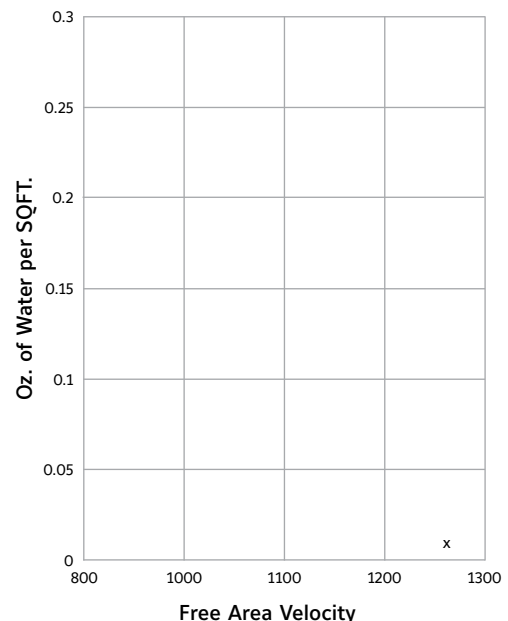
Ruskin Company certifies that the BLD723 louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and wind driven ratings only.

WATER PENETRATION GRAPH

AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500-L 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.

Test size 48" wide X 48" high (1219 X 1219)
Beginning point of water penetration at .01 oz. /sq. ft.
is above 1250 fpm (381 m/min).



WIND-DRIVEN RAIN PERFORMANCE

Test size is 1m x 1m (39" x 39") core area, 1.06m x 1.09m (41.75" x 43.24") nominal. Free Area of test louver is 5.6ft²

Wind Velocity mph (kph)	Rain Fall Rate In./hr. (mm/hr.)	Core Velocity FPM (m/s) ²	Airflow CFM	Free Area Velocity FPM	Effectiveness Ratio	Class	Discharge Loss Class(5) Intake
29 (46.4)	3" (76)	-	-	-	-	A	2
-	-	-	-	-	-	A	2
-	-	-	-	-	-	A	2
-	-	-	-	-	-	A	2
-	-	-	-	-	-	A	2
-	-	-	-	-	-	A	2
-	-	-	-	-	-	A	2
-	-	689 (3.5)	7419	1325	99.90%	A	2
-	-	787 (4.0)	8474	1513	99.80%	A	2
-	-	886 (4.5)	9535	1703	99.10%	A	2
-	-	985 (5)	10600	1893	98.60%	B	2

Wind Velocity mph (kph)	Rain Fall Rate In./hr. (mm/hr.)	Core Velocity FPM (m/s) ²	Airflow CFM	Free Area Velocity FPM	Effectiveness Ratio	Class	Discharge Loss Class(5) Intake
50 (80.5)	8" (203)	0	0	0	99.0%	A	2
-	-	97 (0.5)	1040	186	99.1%	A	2
-	-	197 (1.0)	2122	379	98.7%	B	2
-	-	288 (1.5)	3105	555	98.7%	B	2
-	-	398 (2.0)	4288	766	98.4%	B	2
-	-	481 (2.5)	5180	925	98.6%	B	2
-	-	588 (3.0)	6329	1330	98.5%	B	2
-	-	691 (3.5)	7437	1328	98.5%	B	2
-	-	793 (4.0)	8537	1525	98.1%	B	2
-	-	888 (4.5)	9560	1707	97.4%	B	2
-	-	985 (5)	10602	1893	96.6%	B	2

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. 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 46% 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" accent blade, 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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