

430FB

Stationary Louver Formed Steel

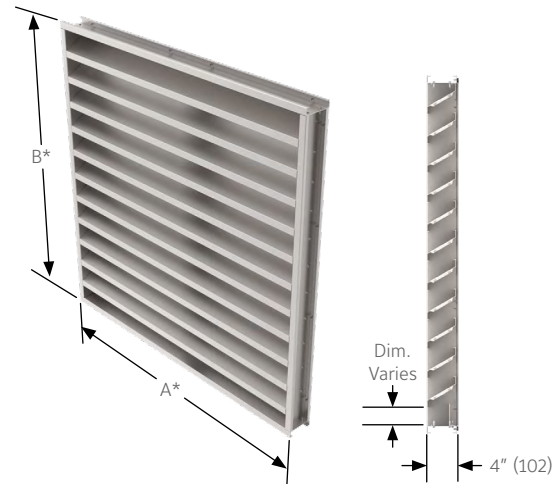
RELIABLE

APPLICATION

The 430FB is a 4" deep stationary louver with continuous blades. This model has hidden mullions combined with durability and economy of steel construction. Appearance is similar to extruded aluminum models.

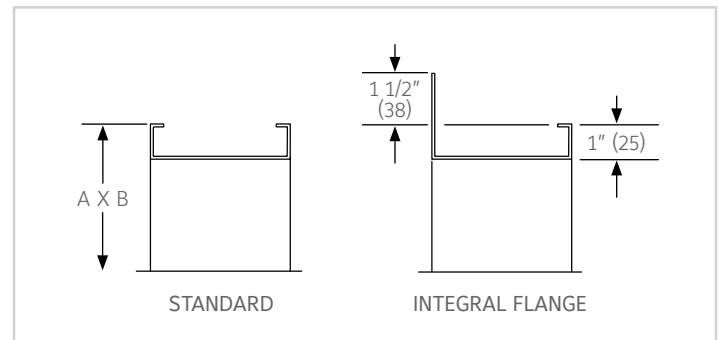
STANDARD CONSTRUCTION

Frame	16 (1.6) gage galvanized steel frame depth is 4" (102).
Blades	18 (1.2) gage galvanized steel, J-style blades (formerly "weatherproof") positioned at 30° angle and spaced approximately 4" (102) center to center.
Screen	19 gage galvanized, 1/2" mesh screen in removable frame. Screen adds approximately 1/2" to louver depth.
Finish	Mill.
Minimum Size	12"w x 12"h (305 x 305).
Maximum Factory Assembly Size	60 sq. ft. (5.6m ²) per section not to exceed 120" x 72" (3048 x 1829) or 72" x 120" (1829 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. 30 psf (1.44 kPa) equivalent to 110 mph (177 kph).



ISO9001
CERTIFIED

FRAME CONSTRUCTION



FEATURES

- High free area, low pressure drop
- Economical galvanized steel construction

VARIATIONS

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

- Extended sill
- Hinged frame
- Front or rear security bars
- Filter racks
- A variety of bird and insect screens
- 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 Reliable for other special requirements.

Note:

- Dimensions in inches, parenthesis () indicate millimeters.
- Units can be furnished actual size or with size deducts.

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.

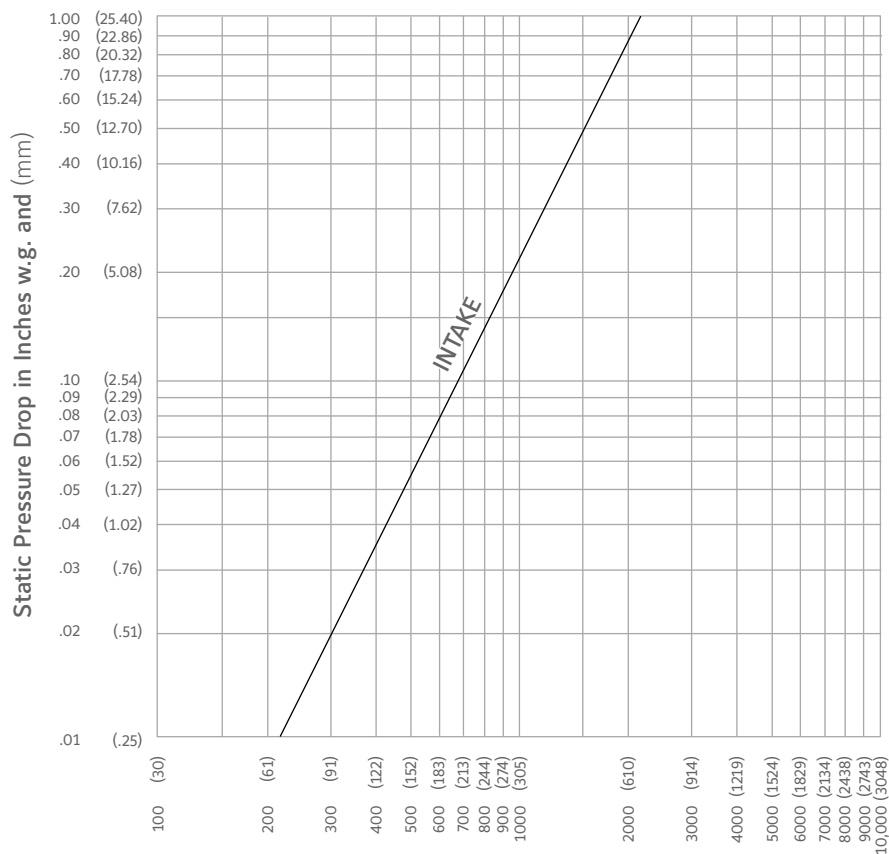
Designs should provide a reasonable safety factor for louver performance by selecting at some point below pressure drop or water penetration system requirements.

FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of 430FB.

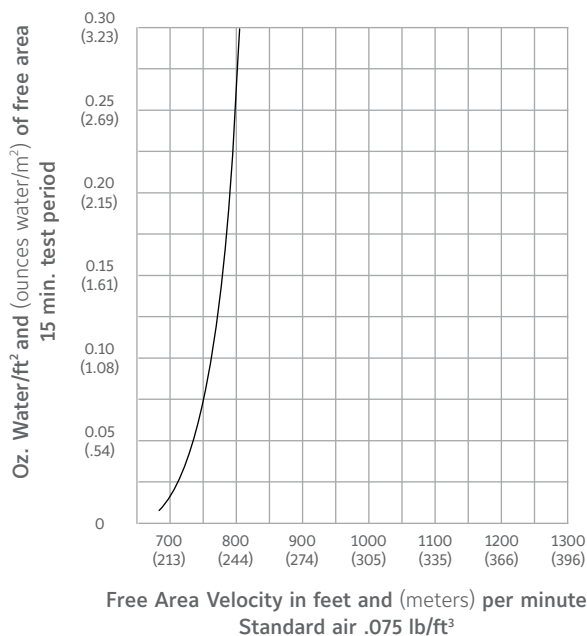
	Width – Inches and Meters															
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Height – Inches and Meters	12	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.96	2.13	2.29	2.44
	12	0.24	0.39	0.53	0.68	0.82	0.96	1.11	1.25	1.40	1.54	1.69	1.83	1.98	2.12	2.27
	0.30	0.02	0.04	0.05	0.06	0.08	0.09	0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.21
	18	0.54	0.86	1.18	1.50	1.83	2.15	2.47	2.79	3.11	3.44	3.76	4.08	4.40	4.73	5.05
	0.46	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47
	24	0.78	1.24	1.71	2.18	2.65	3.11	3.58	4.05	4.51	4.98	5.45	5.91	6.38	6.85	7.31
	0.61	0.07	0.12	0.16	0.20	0.25	0.29	0.33	0.38	0.42	0.46	0.51	0.55	0.59	0.64	0.68
	30	1.09	1.74	2.39	3.04	3.70	4.35	5.00	5.65	6.30	6.96	7.61	8.26	8.91	9.57	10.22
	0.76	0.10	0.16	0.22	0.28	0.34	0.40	0.46	0.52	0.59	0.65	0.71	0.77	0.83	0.89	0.95
	36	1.31	2.10	2.89	3.68	4.47	5.26	6.05	6.84	7.63	8.42	9.20	9.99	10.78	11.57	12.36
	0.91	0.12	0.20	0.27	0.34	0.42	0.49	0.56	0.64	0.71	0.78	0.85	0.93	1.00	1.07	1.15
	42	1.64	2.62	3.60	4.58	5.57	6.55	7.53	8.51	9.49	10.48	11.46	12.44	13.42	14.41	15.39
	1.07	0.15	0.24	0.33	0.43	0.52	0.61	0.70	0.79	0.89	0.97	1.06	1.16	1.25	1.34	1.43
	48	1.85	2.96	4.07	5.18	6.30	7.41	8.52	9.63	10.74	11.85	12.96	14.07	15.18	16.30	17.41
	1.22	0.17	0.27	0.38	0.48	0.59	0.69	0.79	0.89	1.00	1.10	1.20	1.31	1.41	1.51	1.62
	54	2.19	3.50	4.81	6.12	7.44	8.75	10.06	11.37	12.68	14.00	15.31	16.62	17.93	19.25	20.56
	1.37	0.20	0.33	0.45	0.57	0.69	0.81	0.93	1.06	1.18	1.30	1.42	1.54	1.67	1.79	1.91
	60	2.43	3.88	5.34	6.80	8.25	9.71	11.17	12.62	14.08	15.54	16.99	18.45	19.91	21.36	22.82
	1.52	0.23	0.36	0.50	0.63	0.77	0.90	1.04	1.17	1.31	1.44	1.58	1.71	1.85	1.98	2.12
	66	2.74	4.38	6.02	7.66	9.31	10.95	12.59	14.23	15.87	17.52	19.16	20.80	22.44	24.09	25.73
	1.68	0.25	0.41	0.56	0.71	0.86	1.02	1.17	1.32	1.47	1.63	1.78	1.93	2.08	2.24	2.39
	72	2.98	4.76	6.55	8.33	10.12	11.90	13.69	15.47	17.26	19.04	20.83	22.61	24.40	26.19	27.97
	1.83	0.28	0.44	0.61	0.77	0.94	1.11	1.27	1.44	1.60	1.77	1.94	2.10	2.27	2.43	2.60
	78	3.28	5.25	7.22	9.19	11.16	13.13	15.10	17.07	19.04	21.01	22.98	24.95	26.92	28.89	30.86
	1.98	0.30	0.49	0.67	0.85	1.04	1.22	1.40	1.59	1.77	1.95	2.13	2.32	2.50	2.68	2.87
	84	3.52	5.64	7.75	9.87	11.98	14.10	16.21	18.32	20.44	22.55	24.67	26.78	28.90	31.01	33.12
	2.13	0.33	0.52	0.72	0.92	1.11	1.31	1.51	1.70	1.90	2.09	2.29	2.49	2.68	2.88	3.08
	90	3.82	6.11	8.40	10.70	12.99	15.28	17.57	19.87	22.16	24.45	26.74	29.03	31.33	33.62	35.91
	2.29	0.35	0.57	0.78	0.99	1.21	1.42	1.63	1.85	2.06	2.27	2.48	2.70	2.91	3.12	3.34
	96	4.07	6.52	8.96	11.40	13.84	16.29	18.73	21.17	23.62	26.06	28.50	30.95	33.39	35.83	38.28
	2.44	0.38	0.61	0.83	1.06	1.29	1.51	1.74	1.97	2.19	2.42	2.65	2.88	3.10	3.33	3.56

PRESSURE DROP

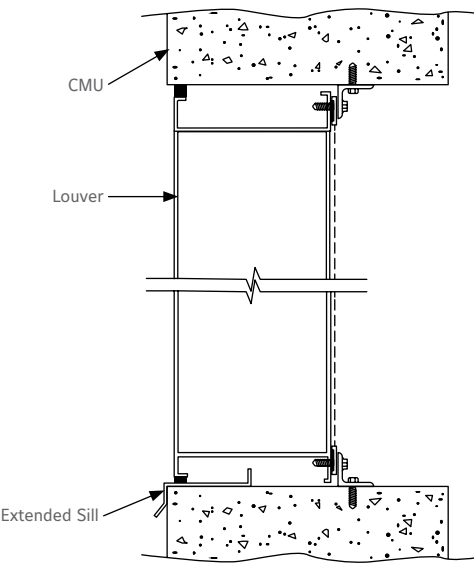


WATER PENETRATION GRAPH

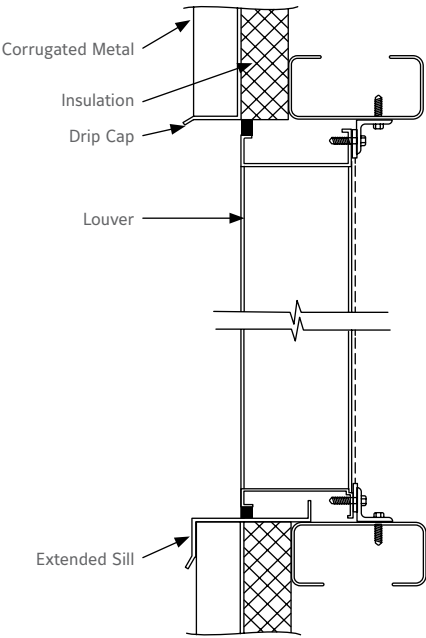
Test size 48" wide X 48" high (1219 X 1219)
Beginning point of water penetration at .01 oz. /sq. ft. is
674 fpm (205 m/min).



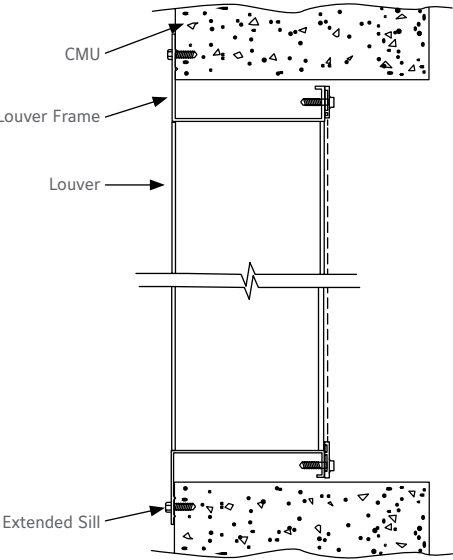
TYPICAL INSTALLATION DETAILS



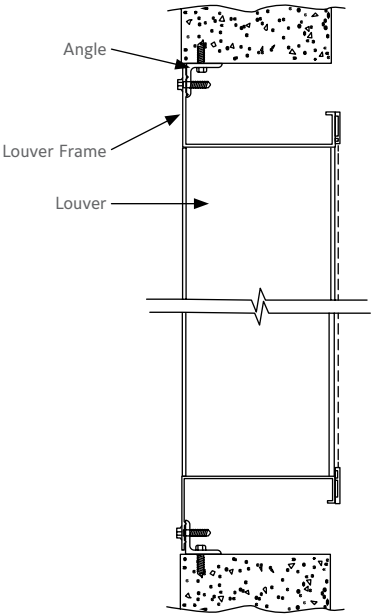
MASONRY WALL



METAL PANEL WALL

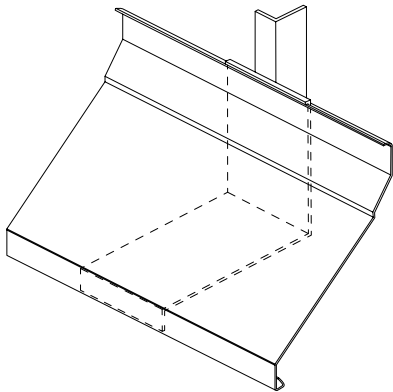


FLANGE MOUNT

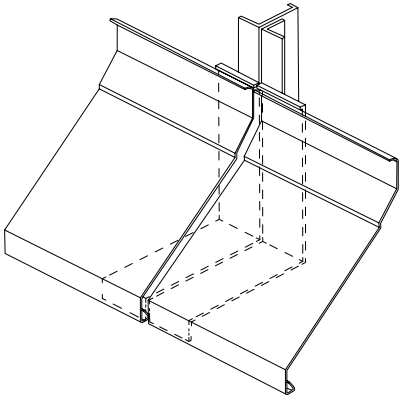


ANGLE SUBFRAME

STANDARD CONSTRUCTION DETAILS



Hidden Vertical Blade Support (HVBS)



Continuous Blade Appearance at Multiple Section Junctions

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary type entirely contained within a 4" 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 6 feet and shall incorporate structural supports required to withstand a wind load of 30 lbs. per sq. ft. (1.44kPa) (specifier may substitute any loading required).

Louvers shall be architectural style with continuous appearing stationary blades – intermediate support mullions shall not interrupt blade appearance when viewed from outside of louver.

Louvers shall be Reliable Model 430FB construction as follows:

- Frame: 16 gage galvanized steel.
- Blades: 18 gage galvanized steel at 30° angle on approximately 4" (102) centers.
- Screen: 1/2" mesh x 19 gage galvanized in removable frame.
- Finish: 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).

LINKS TO IMPORTANT DOCUMENTS

Document Title
Finishes and Color Guide
Limited Warranty Document



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