



## FREE AREA GUIDE

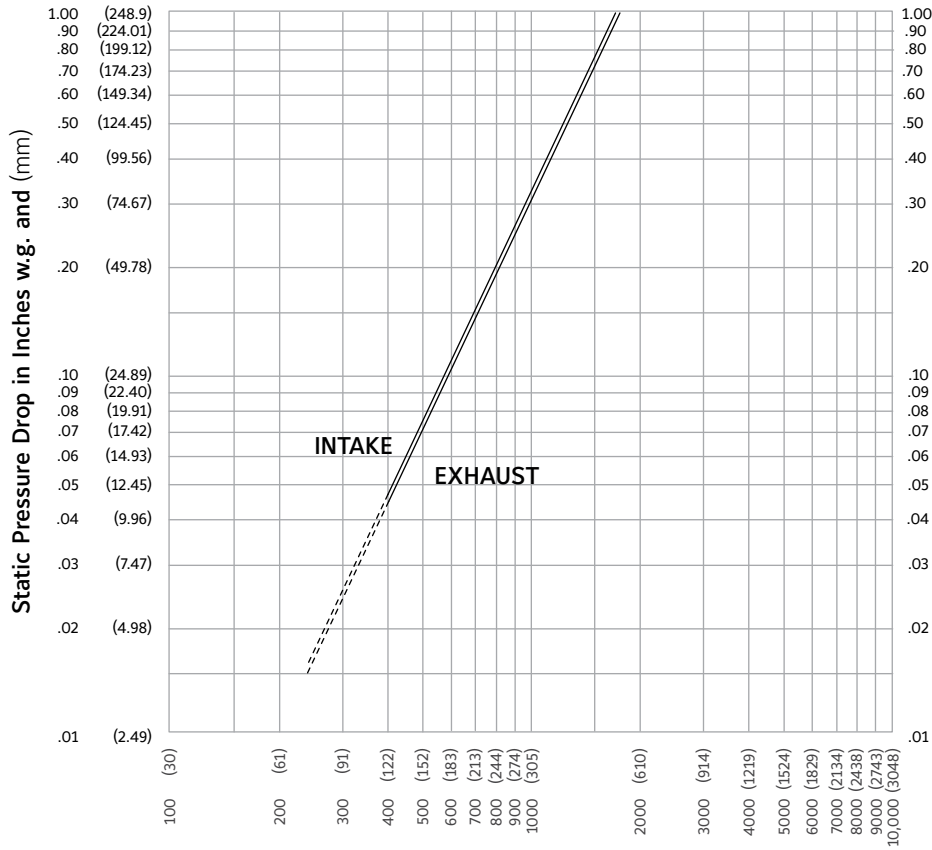
Free Area Guide shows free area in ft<sup>2</sup> and m<sup>2</sup> for various sizes of ACL645.

Width – Inches and Meters

	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
18 0.45	0.24 0.02	0.39 0.04	0.55 0.05	0.70 0.07	0.86 0.08	1.01 0.09	1.17 0.11	1.32 0.12	1.48 0.14
24 0.60	0.36 0.03	0.60 0.06	0.84 0.08	1.07 0.10	1.31 0.12	1.55 0.14	1.79 0.17	2.03 0.19	2.26 0.21
30 0.75	0.49 0.07	0.81 0.11	1.13 0.15	1.45 0.20	1.77 0.24	2.09 0.29	2.41 0.33	2.73 0.37	3.05 0.41
36 0.90	0.61 0.06	1.02 0.09	1.42 0.13	1.82 0.17	2.23 0.21	2.63 0.24	3.03 0.28	3.43 0.32	3.84 0.36
42 1.05	0.74 0.07	1.22 0.11	1.71 0.16	2.20 0.20	2.68 0.25	3.17 0.29	3.65 0.34	4.14 0.39	4.63 0.43
48 1.20	0.86 0.08	1.43 0.13	2.00 0.19	2.57 0.24	3.14 0.29	3.71 0.34	4.28 0.40	4.84 0.45	5.41 0.50
54 1.35	0.99 0.09	1.64 0.15	2.29 0.21	2.94 0.27	3.60 0.33	4.25 0.39	4.90 0.46	5.55 0.52	6.20 0.58
60 1.50	1.12 0.10	1.85 0.17	2.58 0.24	3.32 0.31	4.05 0.38	4.79 0.45	5.52 0.51	6.25 0.58	6.99 0.65
66 1.65	1.24 0.12	2.06 0.19	2.88 0.27	3.69 0.34	4.51 0.42	5.33 0.50	6.14 0.57	6.96 0.65	7.78 0.72
72 1.80	1.37 0.13	2.27 0.21	3.17 0.29	4.07 0.38	4.97 0.46	5.86 0.55	6.76 0.63	7.66 0.71	8.56 0.80
78 1.95	1.49 0.14	2.48 0.23	3.46 0.32	4.44 0.41	5.42 0.50	6.40 0.60	7.39 0.69	8.37 0.78	9.35 0.87
84 2.10	1.62 0.15	2.68 0.25	3.75 0.35	4.81 0.45	5.88 0.55	6.94 0.65	8.01 0.74	9.07 0.84	10.14 0.94
90 2.25	1.75 0.16	2.89 0.27	4.04 0.38	5.19 0.48	6.34 0.59	7.48 0.70	8.63 0.80	9.78 0.91	10.93 1.02
96 2.40	1.87 0.17	3.10 0.29	4.33 0.40	5.56 0.52	6.79 0.63	8.02 0.75	9.25 0.86	10.48 0.97	11.71 1.09
102 2.55	2.00 0.19	3.31 0.31	4.62 0.43	5.94 0.55	7.25 0.67	8.56 0.80	9.88 0.92	11.19 1.04	12.50 1.16
108 2.70	2.12 0.20	3.52 0.33	4.91 0.46	6.31 0.59	7.71 0.72	9.10 0.85	10.50 0.98	11.89 1.11	13.29 1.24
114 2.85	2.25 0.21	3.73 0.35	5.21 0.48	6.68 0.62	8.16 0.76	9.64 0.90	11.12 1.03	12.60 1.17	14.08 1.31
120 3.00	2.37 0.22	3.94 0.37	5.50 0.51	7.06 0.66	8.62 0.80	10.18 0.95	11.74 1.09	13.30 1.24	14.86 1.38

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

# PRESSURE DROP



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

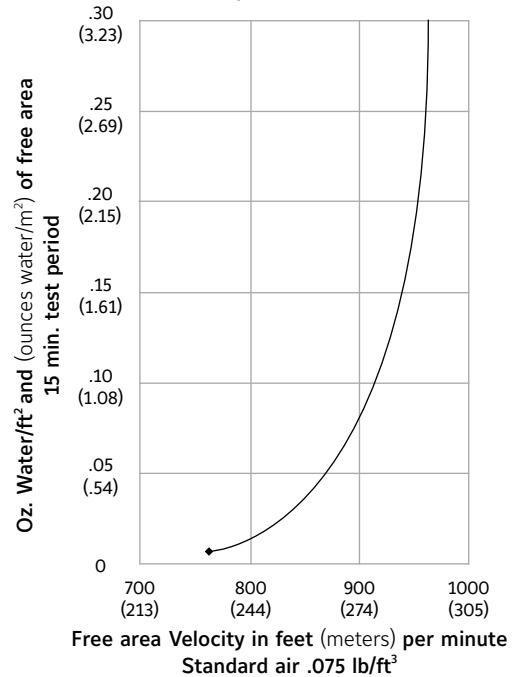
Ratings do not include the effect of a bird screen.

## 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**  
**769 fpm (234 m/min).**



## SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary acoustical type contained within a 6" (152) frame. Louver components (heads, jams, sills, blades, and 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 incorporate structural supports required to withstand a windload of 30 lbs. per sq. ft. (1.44kPa) (equivalent of a 110 mph wind [177 KPH] - specifier may substitute any loading required).

Louvers shall be Ruskin Model ACL645 construction as follows:

Frame: 16 gauge (1.6) galvanized steel channel.

Blades: 18 gauge (1.0) galvanized steel exterior surface, 22 gage (.9) perforated steel interior surface that covers insulation. Blade angle 45° on 6" (152) centers.

Screen: 1/2" mesh x 19 gauge (13 x 1.1) galvanized steel in removable frame.

Finish: Select finish specification from Ruskin Finishes Brochure.

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

### LINKS TO IMPORTANT DOCUMENTS

#### Document Title

Paint Finishes and Color Guide

Limited Warranty Document



3900 Doctor Greaves Road  
 Grandview, MO 64030  
 Website: [www.ruskin.com](http://www.ruskin.com)  
 Phone: (816) 761-7476