

**Tag:** \_\_\_\_\_ **Engineer:** \_\_\_\_\_  
**Project:** \_\_\_\_\_ **Contractor:** \_\_\_\_\_  
**Location:** \_\_\_\_\_ **Architect:** \_\_\_\_\_  
**Date:** \_\_\_\_\_ **Submitted By:** \_\_\_\_\_

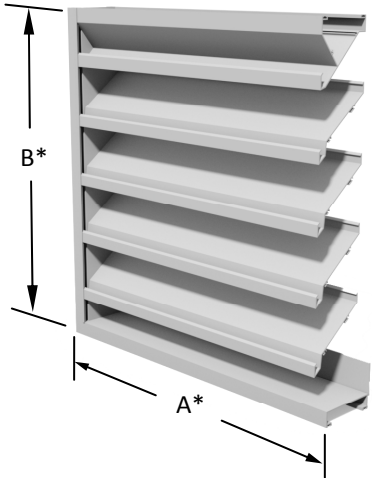


# MODEL XAD-4-45-GL Extruded Aluminum Louver

Drainable, AMCA Licensed

### Standard Construction

- FRAME:** 4" (102) x .081 (2.1) extruded aluminum, 6063-T6
- BLADES:** .081 (2.1) extruded aluminum, 6063-T6  
Drainable Blades fixed at 45° angle,  
Spaced approximately 4.38" (111)
- SCREEN:** Bird screen - 3/4" (19) x .050" (1.3) expanded,  
flattened aluminum with a removable frame on the  
interior of the louver. Screen adds approximately  
1/2" (12.7) to depth of louver.
- FINISH:** Mill
- MINIMUM SIZE:** 6"w (152) x 12"h (305)
- MAXIMUM ASSEMBLY SIZE:** Single Sections will not exceed 120"w (3048) x  
90"h (2286) or 90"w (2286) x 120"h (3048). Larger  
sizes will require field assembly of smaller sections.
- DESIGN LOAD:** 20 psf (97.6 kg/m<sup>2</sup>) Consult for higher pressures.



All dimensions shown in inches, parenthesis ( ) indicate millimeters.

**LEED Material Information**

**VOC Content (g/L) - 0**

**Manufacturing Location (MR 5.1)**

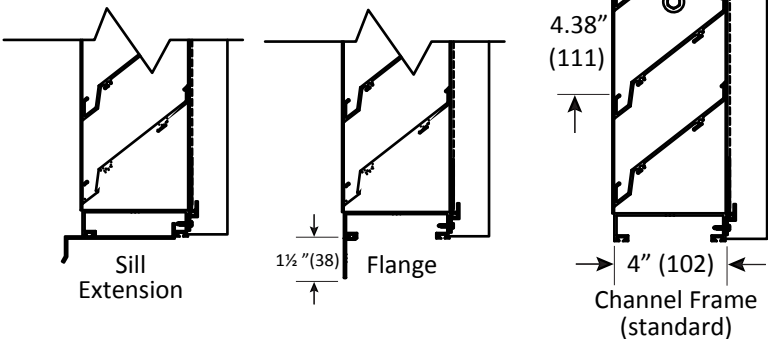
- Marion, NC 28752

**Recycled Content (MR 4.1 & 4.2)**

- 10% Post-Consumer
- 80% Pre-Consumer

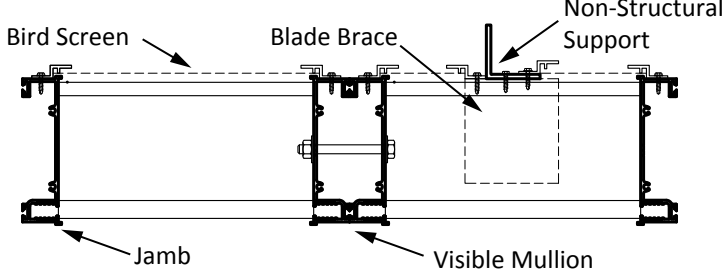
\* Width [A dimension] and Height [B dimension] are approximately 1/4" (6) under listed size, unless otherwise specified.

### Frame Options



- Optional Construction**
- .125" (3.2) extruded aluminum frame
  - Sill Extension
  - Flange Frame [1 1/2" (38)]
  - Sub-Frame
  - Hinged Sub-Frame
  - Welded Construction
  - Filter Racks
  - Security Bars:
    - Front
    - Rear
  - Optional Bird and Insect Screens
  - Optional Finishes: Consult Finishes Chart
  - Blank Off Panel:
    - Aluminum, Non-Insulated
    - Aluminum, Insulated

**Note:** Blade supports may be added as necessary. Blade supports will increase overall depth of louver; exact amount is dependent upon louver size, assembly configuration or windload requirements.



**Note:** Concealed (Architectural) mullions are not recommended with drainable blade products.

Consult NCA for Other Special Requirements

All Stated Specifications Are Subject to Change Without notice or Obligation.

XAD-4-45-GL 0915 / Replaces XAD-4-45-GL - 02-05



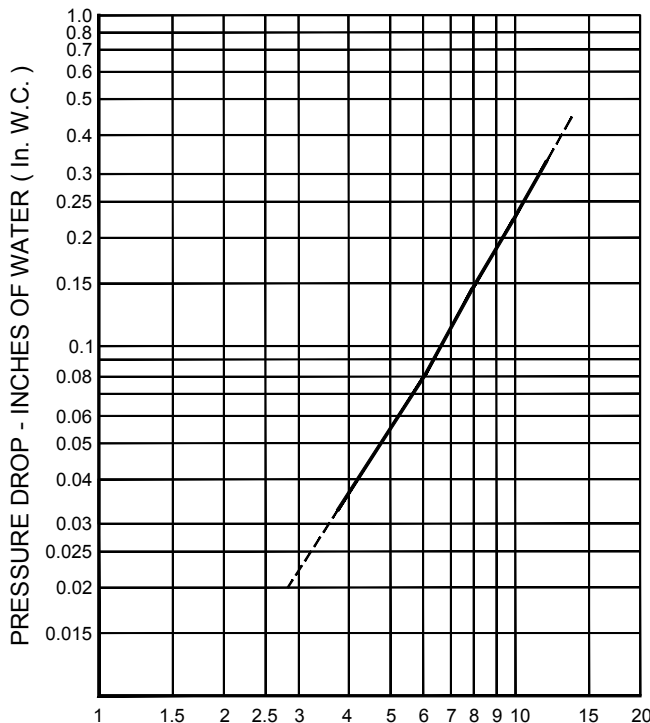
# PERFORMANCE DATA

## FREE AREA GUIDE FOR XAD-4-45-GL (Free area in ft<sup>2</sup> and m<sup>2</sup>)

Width in Inches (Meters)

Height in Inches (Meters)	Width in Inches (Meters)																			
	6 0.15	12 0.30	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52	66 1.68	72 1.83	78 1.98	84 2.13	90 2.29	96 2.44	102 2.59	108 2.74	114 2.90	120 3.05
12 0.30	0.13 0.01	0.32 0.03	0.51 0.05	0.70 0.07	0.89 0.08	1.08 0.10	1.28 0.12	1.47 0.14	1.66 0.15	1.85 0.17	2.04 0.19	2.23 0.21	2.42 0.23	2.61 0.24	2.81 0.26	3.00 0.28	3.19 0.30	3.38 0.31	3.57 0.33	3.76 0.35
18 0.46	0.22 0.02	0.56 0.05	0.89 0.08	1.23 0.11	1.57 0.15	1.90 0.18	2.24 0.21	2.57 0.24	2.91 0.27	3.24 0.30	3.58 0.33	3.91 0.36	4.25 0.40	4.58 0.43	4.92 0.46	5.25 0.49	5.59 0.52	5.93 0.55	6.26 0.58	6.60 0.61
24 0.61	0.32 0.03	0.80 0.07	1.28 0.12	1.76 0.16	2.24 0.21	2.72 0.25	3.20 0.30	3.68 0.34	4.16 0.39	4.64 0.43	5.12 0.48	5.59 0.52	6.07 0.56	6.55 0.61	7.03 0.65	7.51 0.70	7.99 0.74	8.47 0.79	8.95 0.83	9.43 0.88
30 0.76	0.42 0.04	1.04 0.10	1.66 0.15	2.29 0.21	2.91 0.27	3.53 0.33	4.16 0.39	4.78 0.44	5.41 0.50	6.03 0.56	6.65 0.62	7.28 0.68	7.90 0.73	8.52 0.79	9.15 0.85	9.77 0.91	10.39 0.97	11.02 1.02	11.64 1.08	12.27 1.14
36 0.91	0.51 0.05	1.28 0.12	2.05 0.19	2.82 0.26	3.58 0.33	4.35 0.40	5.12 0.48	5.89 0.55	6.65 0.62	7.42 0.69	8.19 0.76	8.96 0.83	9.73 0.90	10.49 0.98	11.26 1.05	12.03 1.12	12.80 1.19	13.56 1.26	14.33 1.33	15.10 1.40
42 1.07	0.61 0.06	1.52 0.14	2.43 0.23	3.34 0.31	4.26 0.40	5.17 0.48	6.08 0.57	6.99 0.65	7.90 0.74	8.82 0.82	9.73 0.90	10.64 0.99	11.55 1.07	12.46 1.16	13.38 1.24	14.29 1.33	15.20 1.41	16.11 1.50	17.02 1.58	17.94 1.67
48 1.22	0.70 0.07	1.76 0.16	2.82 0.26	3.87 0.36	4.93 0.46	5.98 0.56	7.04 0.65	8.10 0.75	9.15 0.85	10.21 0.95	11.27 1.05	12.32 1.15	13.38 1.24	14.43 1.34	15.49 1.44	16.55 1.54	17.60 1.64	18.66 1.74	19.71 1.83	20.77 1.93
54 1.37	0.84 0.08	2.10 0.20	3.36 0.31	4.62 0.43	5.88 0.55	7.14 0.66	8.40 0.78	9.66 0.90	10.93 1.02	12.19 1.13	13.45 1.25	14.71 1.37	15.97 1.49	17.23 1.60	18.49 1.72	19.75 1.84	21.01 1.95	22.27 2.07	23.53 2.19	24.79 2.31
60 1.52	0.94 0.09	2.34 0.22	3.75 0.35	5.15 0.48	6.56 0.61	7.96 0.74	9.37 0.87	10.77 1.00	12.17 1.13	13.58 1.26	14.98 1.39	16.39 1.52	17.79 1.65	19.20 1.79	20.60 1.92	22.01 2.05	23.41 2.18	24.82 2.31	26.22 2.44	27.63 2.57
66 1.68	1.03 0.10	2.58 0.24	4.13 0.38	5.68 0.53	7.23 0.67	8.78 0.82	10.33 0.96	11.87 1.10	13.42 1.25	14.97 1.39	16.52 1.54	18.07 1.68	19.62 1.82	21.17 1.97	22.72 2.11	24.27 2.26	25.82 2.40	27.36 2.54	28.91 2.69	30.46 2.83
72 1.83	1.13 0.10	2.82 0.26	4.51 0.42	6.21 0.58	7.90 0.73	9.59 0.89	11.29 1.05	12.98 1.21	14.67 1.36	16.37 1.52	18.06 1.68	19.75 1.84	21.45 1.99	23.14 2.15	24.83 2.31	26.52 2.47	28.22 2.62	29.91 2.78	31.60 2.94	33.30 3.10
78 1.98	1.22 0.11	3.06 0.28	4.90 0.46	6.74 0.63	8.57 0.80	10.41 0.97	12.25 1.14	14.09 1.31	15.92 1.48	17.76 1.65	19.60 1.82	21.43 1.99	23.27 2.16	25.11 2.34	26.95 2.51	28.78 2.68	30.62 2.85	32.46 3.02	34.29 3.19	36.13 3.36
84 2.13	1.32 0.12	3.30 0.31	5.28 0.49	7.26 0.68	9.25 0.86	11.23 1.04	13.21 1.23	15.19 1.41	17.17 1.60	19.15 1.78	21.13 1.97	23.12 2.15	25.10 2.33	27.08 2.52	29.06 2.70	31.04 2.89	33.02 3.07	35.00 3.26	36.98 3.44	38.97 3.62
90 2.29	1.42 0.13	3.54 0.33	5.67 0.53	7.79 0.72	9.92 0.92	12.04 1.12	14.17 1.32	16.30 1.52	18.42 1.71	20.55 1.91	22.67 2.11	24.80 2.31	26.92 2.50	29.05 2.70	31.17 2.90	33.30 3.10	35.42 3.29	37.55 3.49	39.68 3.69	41.80 3.89
96 2.44	1.51 0.14	3.78 0.35	6.05 0.56	8.32 0.77	10.59 0.99	12.86 1.20	15.13 1.41	17.40 1.62	19.67 1.83	21.94 2.04	24.21 2.25	26.48 2.46	28.75 2.67	31.02 2.88	33.29 3.10	35.56 3.31	37.83 3.52	40.10 3.73	42.37 3.94	44.64 4.15

Height in Inches (Meters)



VELOCITY THROUGH FREE AREA  
FPM X 100  
**PRESSURE DROP  
INTAKE**  
(Tested to AMCA Figure 5.5)



NCA Manufacturing Inc. certifies that the Model **XAD-4-45-GL** louver shown herein is certified 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.

Beginning Point of Water Penetration at .01oz./ft<sup>2</sup> is **939 FPM (286 m/min)** Free Area Velocity.

**Notes:**

- Pressure Drop and Water Penetration Data applies to test unit size 48" w x 48" h (1219 x 1219) only.
- Reported Pressure Drop is for Intake only.
- Performance data does not include the effects of bird screen.
- All Performance shown is at standard air density of 0.075 lb/ft<sup>3</sup> (1.2 kg/m<sup>3</sup>).
- Water Penetration data is for 15 minute test duration