

Tag: \_\_\_\_\_ Engineer: \_\_\_\_\_  
 Project: \_\_\_\_\_ Contractor: \_\_\_\_\_  
 Location: \_\_\_\_\_ Architect: \_\_\_\_\_  
 Date: \_\_\_\_\_ Submitted by: \_\_\_\_\_

# NCA™

## Model XAD-2-45-GL

2" Deep Drainable Extruded Aluminum Stationary Louver



### Application:

The XAD-2-45-GL is a 2" deep extruded aluminum stationary louver with drainable blades and drainable head frame. The XAD-2-45-GL is intended to protect air exhaust and intake openings in the exterior of a building. The XAD-2-45-GL is intended to be used where water penetration is a concern. Due to the XAD-2-45-GL's use of drainable blades and drainable head it is a high performing louver. The XAD-2-45-GL is AMCA listed so that you can select and apply with confidence.

### Standard Construction:

**FRAME:** 2" x .063 (51 x 1.6) extruded aluminum (6063-T6).

**BLADES:** .063 (1.6) extruded aluminum (6063-T6), drainable blades fixed at 45°, spaced approximately 2-1/4" (57).

**SCREEN:** Bird screen - 3/4" x .050 (19 x 1.3) flattened expanded aluminum in a removable frame on interior of louver. Screen adds approximately 1/2" (13) to depth of louver.

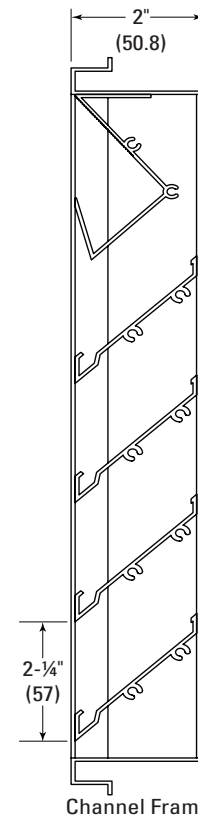
**FINISH:** Mill aluminum.

**MINIMUM SIZE:** 8" w x 8" h (203 x 203)

**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, parentheses ( ) indicate millimeters.



### Optional Construction:

*Optional Bird & Insect Screen (see Louver Screen Supplemental Submittal)*

*Optional Finishes (see Louver Finish Supplemental Submittal)*

*Shapes (see Louver Shapes Supplemental Submittal)*

*Blank Off Panel (See Louver Blank Off-Panel Supplemental Submittal)*

*Sill Extension*

*Flange Frame [1-1/2" (38)]*

*Subframe*

*Filter Racks:*

1" Filter Rack

2" Filter Rack

*Security Bars (rear):*

Single direction: Bar Spacing \_\_\_\_\_ inches

Both directions: Bar Spacing \_\_\_\_\_ inches

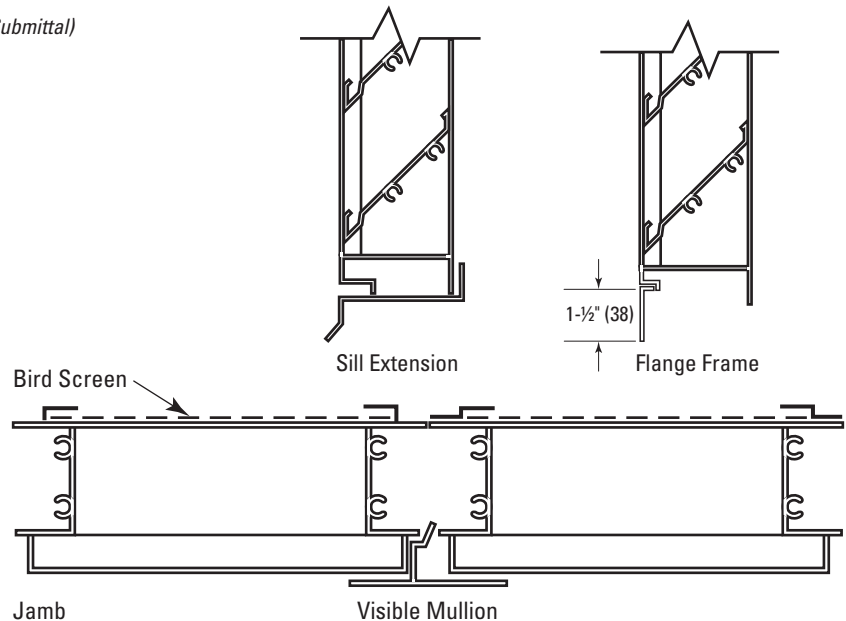
*Heavy Duty Hinge:*

Left Right Top Bottom

*Welded Construction*

### Note:

All dampers are fabricated 1/4" (6) under listed size unless specified "actual or exact".



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

Consult NCA for other Special Requirements.



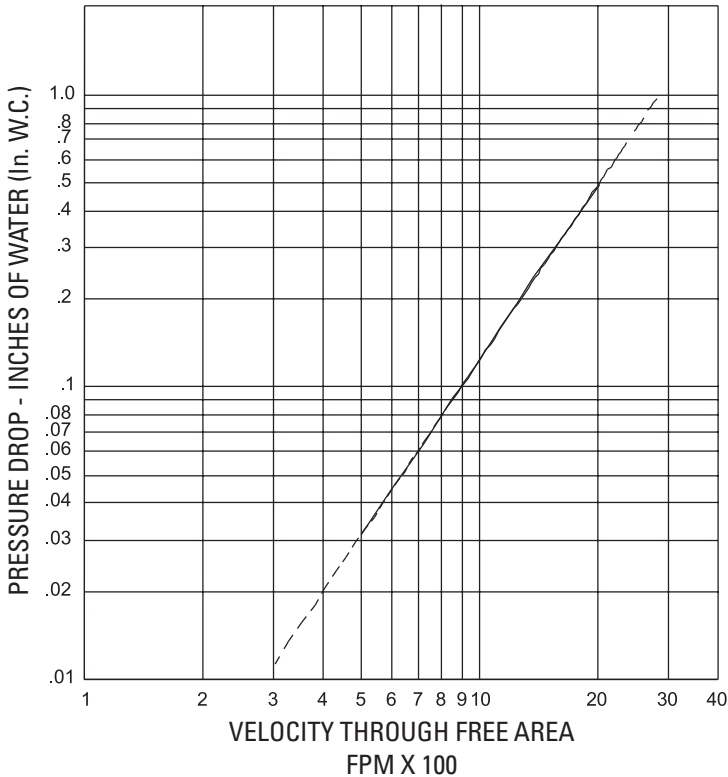
# PERFORMANCE DATA - Model XAD-2-45-GL 2" Deep Drainable Extruded Aluminum Stationary Louver

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

Width in Inches

Height in Inches	8	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
12	0.17	0.28	0.45	0.61	0.78	0.95	1.12	1.28	1.45	1.62	1.79	1.95	2.12	2.29	2.46	2.62
18	0.28	0.47	0.75	1.03	1.31	1.59	1.87	2.15	2.43	2.71	2.99	3.27	3.55	3.83	4.11	4.39
24	0.42	0.70	1.12	1.54	1.96	2.38	2.80	3.22	3.63	4.05	4.47	4.89	5.31	5.73	6.15	6.57
30	0.54	0.90	1.45	1.99	2.53	3.07	3.62	4.16	4.70	5.24	5.79	6.33	6.87	7.41	7.96	8.50
36	0.66	1.09	1.75	2.40	3.06	3.71	4.37	5.02	5.68	6.33	6.99	7.64	8.30	8.95	9.61	10.26
42	0.79	1.32	2.11	2.91	3.70	4.49	5.28	6.07	6.87	7.66	8.45	9.24	10.04	10.83	11.62	12.41
48	0.90	1.50	2.40	3.30	4.20	5.10	6.00	6.90	7.80	8.70	9.59	10.49	11.39	12.29	13.19	14.09
54	1.03	1.72	2.75	3.78	4.81	5.84	6.87	7.90	8.93	9.96	10.99	12.02	13.05	14.08	15.11	16.14
60	1.17	1.95	3.12	4.29	5.46	6.64	7.81	8.98	10.15	11.32	12.49	13.66	14.83	16.00	17.18	18.35
66	1.29	2.15	3.45	4.74	6.03	7.32	8.62	9.91	11.20	12.49	13.79	15.08	16.37	17.66	18.96	20.25
72	1.41	2.34	3.75	5.15	6.56	7.96	9.37	10.77	12.18	13.58	14.99	16.39	17.80	19.20	20.61	22.01
78	1.55	2.58	4.12	5.67	7.21	8.76	10.30	11.85	13.40	14.94	16.49	18.03	19.58	21.12	22.67	24.21
84	1.67	2.78	4.45	6.11	7.78	9.45	11.12	12.78	14.45	16.12	17.79	19.45	21.12	22.79	24.46	26.12
90	1.78	2.97	4.75	6.53	8.31	10.09	11.87	13.65	15.43	17.21	18.99	20.77	22.55	24.33	26.11	27.89
96	1.92	3.20	5.12	7.04	8.96	10.88	12.80	14.72	16.65	18.57	20.49	22.41	24.33	26.25	28.17	30.09

## PRESSURE DROP



Air Velocity in Feet (Meters) per Minute through Free Area (Tested to AMCA Fig. 5.5)



NCA Manufacturing Inc. certifies that the Model XAD-2-45-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 and water penetration ratings only.

**Beginning Point of Water Penetration at .01oz./ft<sup>2</sup> is  
1100 FPM (335 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.

Apr 2018