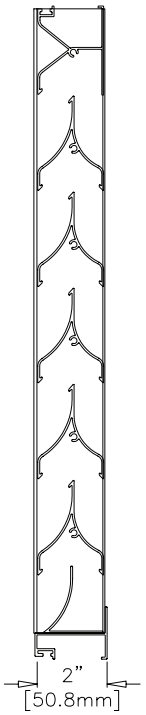
GREENHECK

SES-202

Sightproof Louver

Application and Design

SES-202 is a sightproof louver designed to protect air intake and exhaust openings in building exterior walls. Design incorporates Chevron style blades to prevent maximum resistance to visual see through. The SES-202 is an extremely efficient louver with **AMCA LICENSED PERFORMANCE DATA** enabling designers to select and apply with confidence.



amca WORLDWIDE CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®
www.amca.org

Standard Construction

Frame . . . . . Heavy gauge extruded 6063-T5 aluminum, 2 in. x 0.063 in. nominal wall thickness

Blades. . . . . Chevron style, heavy gauge extruded 6063-T5 aluminum, 0.063 in. nominal wall thickness, positioned on approximately 2 in. centers

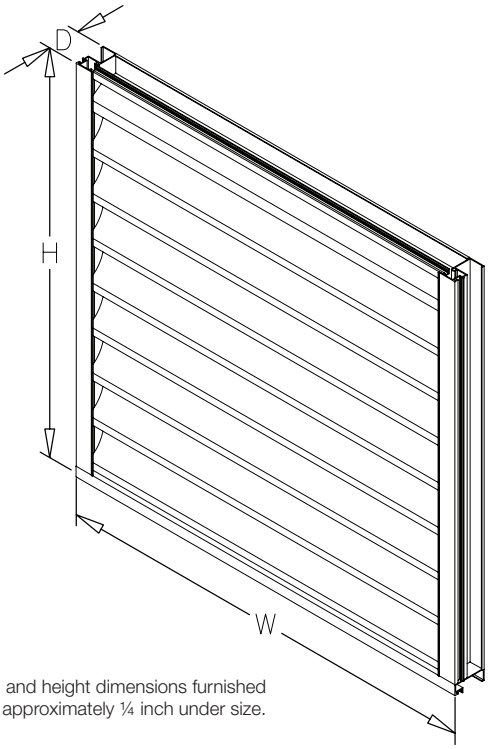
Construction . . . Mechanically fastened

Birdscreen. . . . . 3/4 in. x 0.051 in. flattened expanded aluminum in removable frame, inside mount (rear)

Finish. . . . . Mill

Minimum Size . . 6 in. W x 8 in. H

Maximum Single Section Size . . . 120 in. W or 120 in. H (limited to 70 ft. sq.)



*Width and height dimensions furnished approximately ¼ inch under size.

Options *(at additional cost)*

- A variety of bird and insect screens
- Blank off panel
- Extended sill
- Filter rack
- Flanged frame
- Hinged frame
- Security bars
- A variety of architectural finishes including:
  - Clear anodize
  - Integral color anodize
  - Baked enamel paint
  - Kynar paint

PERFORMANCE DATA

SES-202

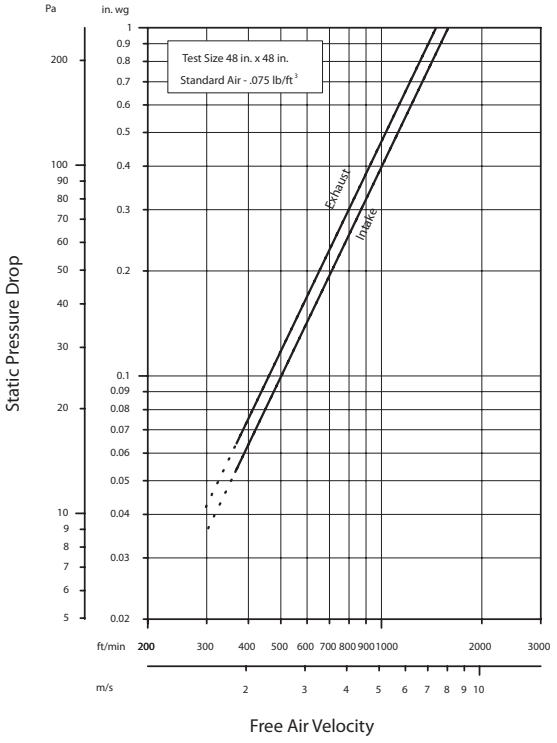
Sightproof Louver
Extruded Aluminum

Free Area Chart (Sq. ft.)

Louver Height Inches	Louver Width in Inches													
	6	12	24	30	42	**48**	60	66	78	84	96	102	114	120
8	0.03	0.09	0.21	0.27	0.39	0.44	0.56	0.62	0.74	0.79	0.91	0.97	1.09	1.15
12	0.06	0.15	0.35	0.44	0.64	0.73	0.93	1.02	1.22	1.31	1.51	1.60	1.80	1.89
18	0.10	0.26	0.59	0.75	1.08	1.24	1.57	1.74	2.06	2.23	2.56	2.72	3.05	3.21
24	0.14	0.38	0.87	1.11	1.59	1.84	2.32	2.56	3.05	3.29	3.77	4.01	4.50	4.74
30	0.18	0.48	1.09	1.39	2.00	2.23	2.91	3.21	3.81	4.12	4.72	5.03	5.63	5.94
36	0.21	0.58	1.32	1.69	2.42	2.79	3.53	3.90	4.63	5.00	5.47	6.11	6.84	7.21
42	0.25	0.69	1.55	1.96	2.85	3.28	4.15	4.58	5.45	5.88	6.75	7.18	8.05	8.48
48	0.29	0.78	1.77	2.27	3.25	**3.75**	4.74	5.23	6.22	6.71	7.70	8.20	9.18	9.68
54	0.33	0.91	2.05	2.62	3.77	4.34	5.48	6.05	7.20	7.77	8.91	9.49	10.63	11.20
60	0.38	1.03	2.32	2.97	4.26	4.91	6.21	6.85	8.15	8.80	10.09	10.74	12.03	12.68
66	0.41	1.12	2.54	3.25	4.67	5.37	6.79	7.50	8.92	9.63	11.05	11.75	13.17	13.88
72	0.45	1.23	2.77	3.55	5.10	5.87	7.42	8.19	9.74	10.52	12.06	12.84	14.39	15.16
78	0.48	1.32	2.98	3.81	5.47	6.30	7.96	8.79	10.45	11.28	12.94	13.78	15.44	16.27
84	0.52	1.42	3.22	4.12	5.91	6.81	8.67	9.50	11.30	12.20	14.00	14.89	16.69	17.59
90	0.57	1.55	3.50	4.47	6.43	7.40	9.35	10.33	12.28	13.26				
96	0.61	1.64	3.72	4.75	6.83	7.87	9.94	10.98	13.05	14.09				
102	0.64	1.75	3.95	5.05	7.26	8.36	10.56	11.67	13.87	14.97				
108	0.68	1.85	4.18	5.35	7.68	8.85	11.18	12.35	14.69	15.85				
114	0.72	1.94	4.40	5.63	8.09	9.31	11.77	13.00	15.46	16.68				
120	0.76	2.07	4.68	5.99	8.60	9.90	12.52	13.82	16.43	17.74				

Greenheck Fan Corporation certifies that the SES-202 louvers shown herein are 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 and water penetration ratings.

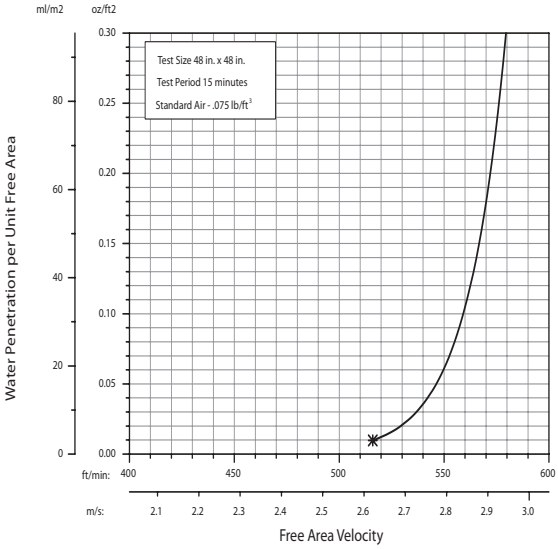
Airflow Resistance (Standard Air - .075 lb/ft³)



Model SES-202 resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information.

Water Penetration (Standard Air - .075 lb/ft³)

Test size 48 in. x 48 in. Test duration of 15 min.



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through .01 oz. of water (penetration) per sq. ft. of louver free area. ***The beginning point of water penetration for Model SES-202 is 516 fpm free area velocity.** These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

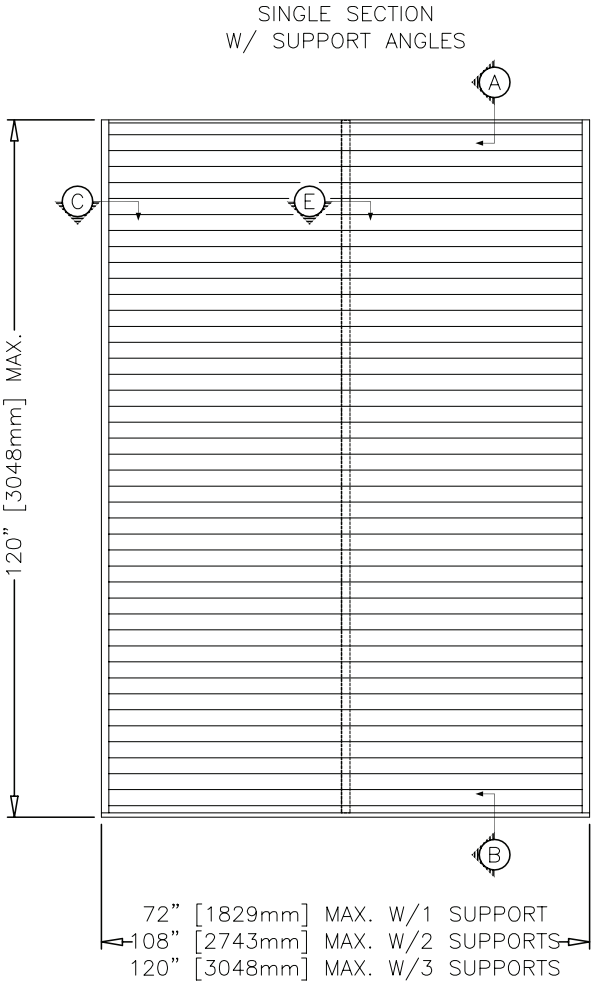
PRODUCT DETAILS

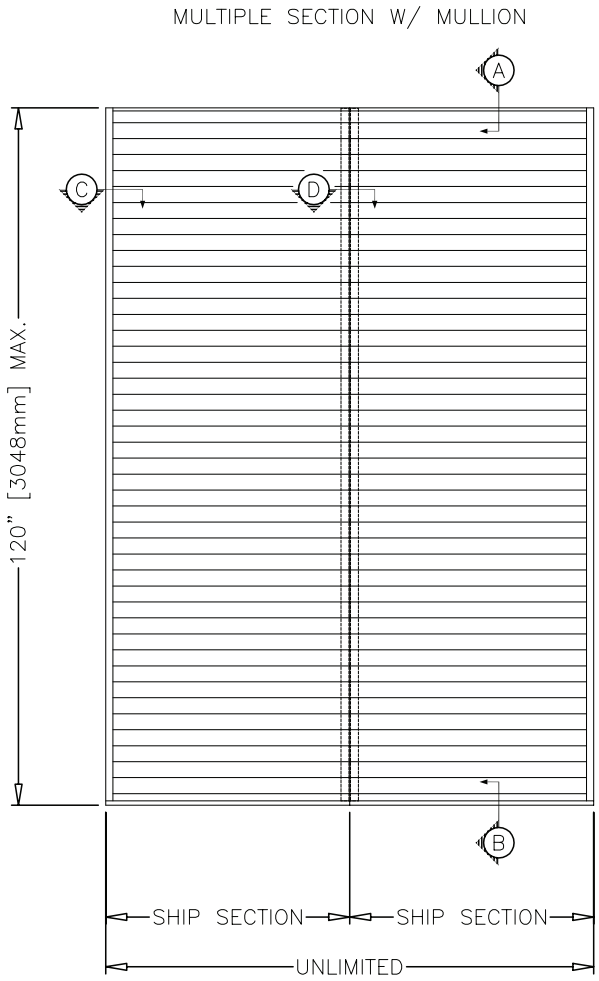
SES-202

Sightproof Louver
Extruded Aluminum

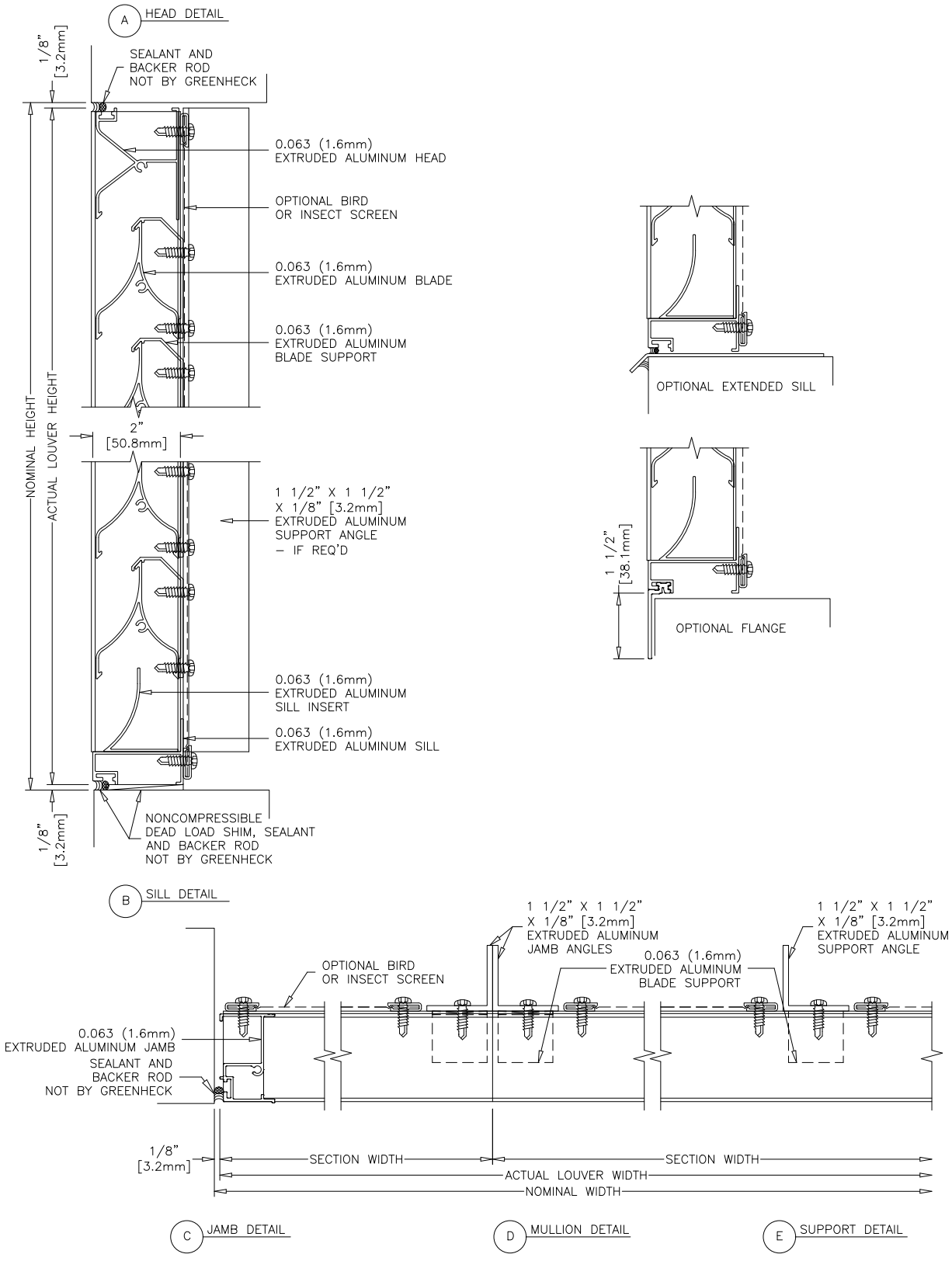
Maximum Size and Installation Information

Maximum single section size for model SES-202 is 120 in. W x 84 in. H or 84 in. W x 120 in. H (70 sq. ft). Larger openings require field assembly of multiple louver sections to make up the overall opening size. Individual louver sections are designed to withstand a 25 PSF wind load (please consult Greenheck if the louvers must withstand higher wind-loads). Structural reinforcing members may be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Greenheck unless indicated otherwise by Greenheck. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Greenheck. Additional information on louver installation may be found in AMCA Publication #501, Louver Application Manual.

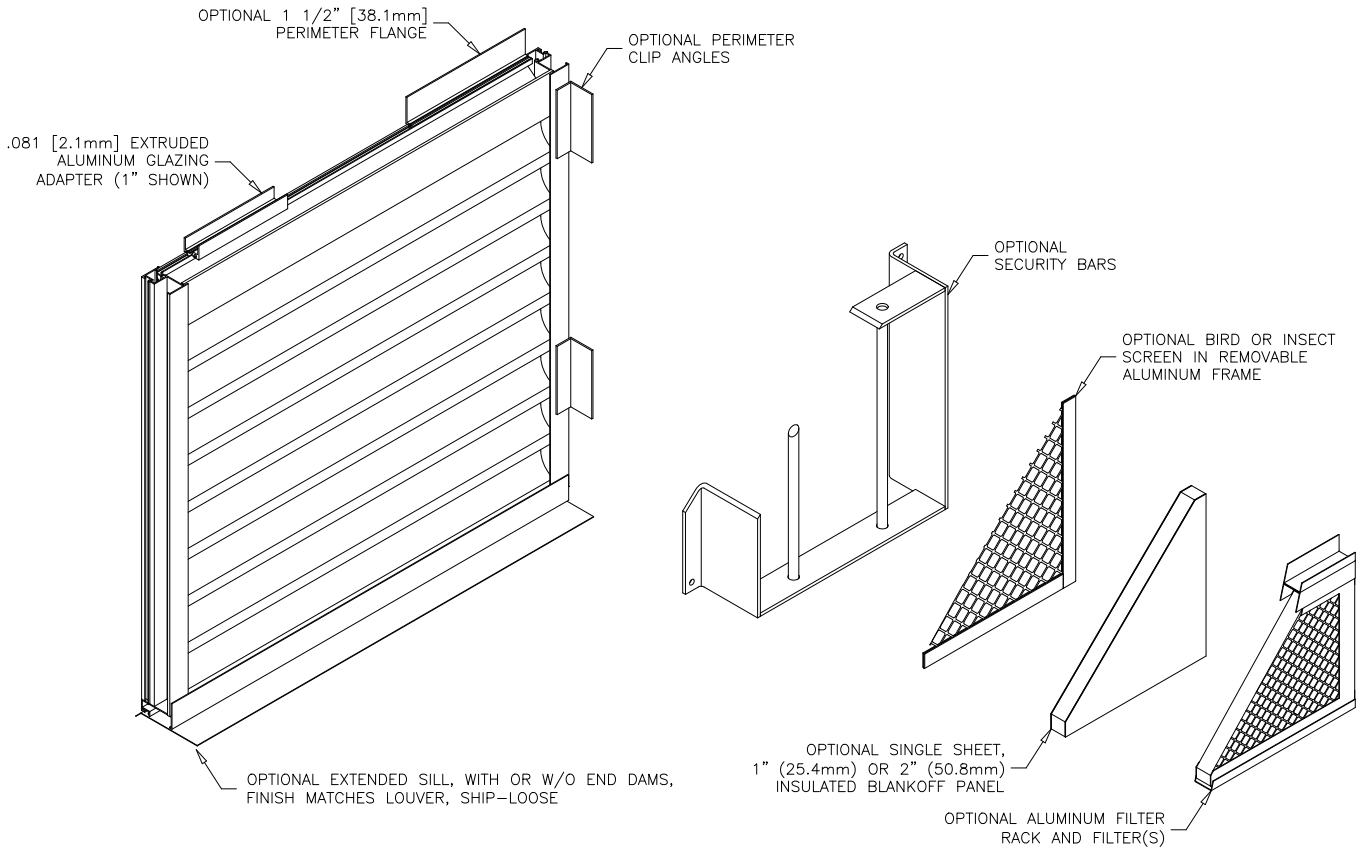




Minimum Single Section Size	Maximum Single Section Size
6 in. W x 8 in. H	70 ft. sq.


A HEAD DETAIL
1/8" [3.2mm]
SEALANT AND BACKER ROD NOT BY GREENHECK
0.063 (1.6mm) EXTRUDED ALUMINUM HEAD
OPTIONAL BIRD OR INSECT SCREEN
0.063 (1.6mm) EXTRUDED ALUMINUM BLADE
0.063 (1.6mm) EXTRUDED ALUMINUM BLADE SUPPORT
NOMINAL HEIGHT
ACTUAL LOUVER HEIGHT
2" [50.8mm]
1 1/2" X 1 1/2" X 1/8" [3.2mm] EXTRUDED ALUMINUM SUPPORT ANGLE – IF REQ'D
0.063 (1.6mm) EXTRUDED ALUMINUM SILL INSERT
0.063 (1.6mm) EXTRUDED ALUMINUM SILL
1/8" [3.2mm]
NONCOMPRESSIBLE DEAD LOAD SHIM, SEALANT AND BACKER ROD NOT BY GREENHECK
OPTIONAL EXTENDED SILL
1 1/2" [38.1mm]
OPTIONAL FLANGE
B SILL DETAIL
1 1/2" X 1 1/2" X 1/8" [3.2mm] EXTRUDED ALUMINUM JAMB ANGLES
OPTIONAL BIRD OR INSECT SCREEN
0.063 (1.6mm) EXTRUDED ALUMINUM BLADE SUPPORT
1 1/2" X 1 1/2" X 1/8" [3.2mm] EXTRUDED ALUMINUM SUPPORT ANGLE
0.063 (1.6mm) EXTRUDED ALUMINUM JAMB
SEALANT AND BACKER ROD NOT BY GREENHECK
1/8" [3.2mm]
SECTION WIDTH
SECTION WIDTH
ACTUAL LOUVER WIDTH
NOMINAL WIDTH
C JAMB DETAIL
D MULLION DETAIL
E SUPPORT DETAIL

OPTION DRAWINGS



FINISHES

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)
AAMA 2605 100% Fluoropolymer (FEVE) 2-Coat 70% Kynar® (PVDF) 3-Coat 70% Kynar® (PVDF) 4-Coat 70% Kynar® (PVDF)	***"Best."*** The premier finish for extruded aluminum. Tough, long-lasting coating has superior color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	**Standard Colors:** Any of the 27 standard colors shown can be furnished in 70% or 50% Kynar®, 100% Fluoropolymer or Baked Enamel. **Mica Colors:** Greenheck offers 6 standard Mica colors for 70% Kynar® or 100% Fluoropolymer. **Custom Colors:** Custom color matching is available. Consult your Greenheck representative for cost and/or lead-time implications if a custom color is required.	10 Years (20 Years Optional)
AAMA 2604 50% Kynar® / Acroflur®	***"Better."*** Tough, long-lasting coating has excellent color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.		5 Years
AAMA 2603 Baked Enamel	***"Good."*** Provides good adhesion and resistance to weathering, corrosion and chemical stain.		1 Year
AA-M10C22A42 Integral Color Anodize	"Two-step" anodizing is produced by following the normal anodizing step with a second, colorfast process.	Light, Medium, Dark or Extra Dark Bronze; Champagne; Black	5 years
AA-M10C22A41 Clear Anodize 215 R-1	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	5 years
AA-M10C22A31 Clear Anodize 204	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year
Prime Coat	Louvers or architectural products shall be cleaned, pre-treated and receive a prime coat finish suitable for field painting. Greenheck does not recommend prime coat or field painting of materials.		n/a
Mill	Materials may be supplied in natural aluminum or galvanized steel finish when normal weathering is acceptable and there is no concern for color or color change.		n/a

Finishes meet or exceed AAMA 2605, AAMA 2604, and AAMA 2603 requirements. Please consult www.greenheck.com for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.

GREENHECK®

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