

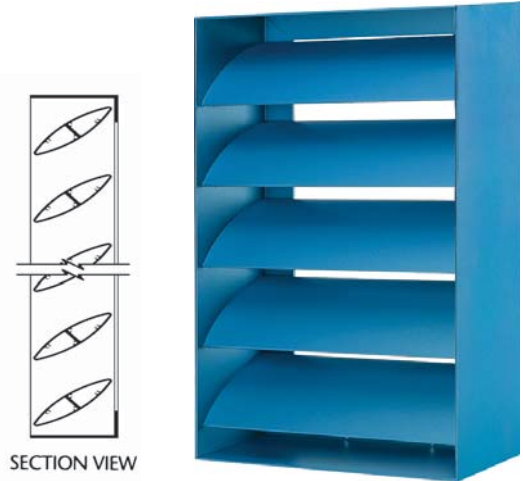
### Application and Design

Greenheck Airfoil Grilles are custom designed and manufactured to function as architectural accents or as entire facades to prevent sight or serve as solar screens or security barriers. Airfoil Grilles are manufactured in configurations from 3½ in. (88.9 mm) to 6 in. (152.4 mm) deep and with blades configured from a minimum of 2 in. (50.8 mm) to maximum 12 in. (304.8 mm) center spacing to achieve desired sightlines.

### Standard Construction

Material . . . . . Extruded Aluminum, Alloy 6063T5  
 Material Thickness . . . . . 0.081 in. (2.06 mm)  
 Grille Depth . . . . . 3.5 to 6 in. (88.9 to 152.4 mm)  
 Perimeter Frame . . . . . Aluminum Bar, Channel or Tube  
 Airfoil Blade Angle . . . . . 0 to 60°  
 Horizontal Bar Spacing . . . . . 2 to 12 in. (50.8 to 604.8 mm)  
 Minimum Dimension . . . . . 8 in. (203 mm)  
 Maximum Dimension . . . . . 120 in. (3048 mm)

*One dimension not to exceed 72 in.*



### Options (at additional cost)

- Anchor clips
- A variety of bird and insect screens
- A variety of architectural finishes including:
  - Clear anodize
  - Integral color anodize
  - Baked enamel paint
  - Kynar paint

### Recommended Specifications

#### General

Where indicated on plan drawings or described in schedules, furnish and install Airfoil Grilles as designed and manufactured by Greenheck Fan Corporation, Schofield, WI. Grilles shall be furnished in the configurations represented on the plan drawings and shall include installation hardware and finishes as specified and required.

#### Welded Assembly

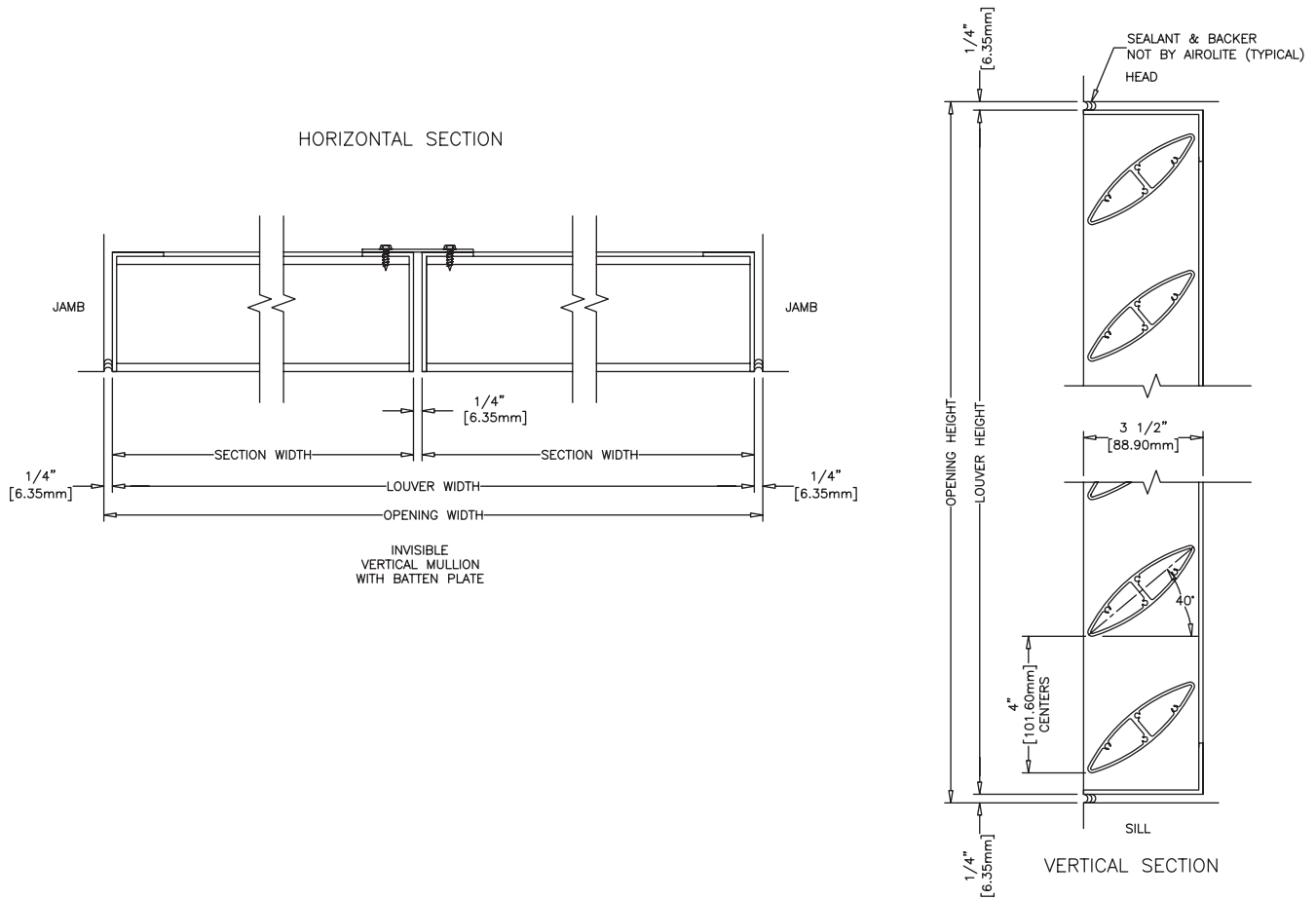
All horizontal and perimeter frame members shall be joined with fillet welds concealed from view, unless the size of the grille makes bolted connections between grille sections necessary. Each weld shall be manufactured with the Pulsed Gas Metal Arc Welding (GMAW Mig) process. Blades shall be joined to perimeter frames with two 1 in. (25.4 mm) long fillet welds with a minimum 3/16 in. (4.76 mm) leg. Frames shall be joined at each corner with a full-length GMAW fillet weld with a minimum 3/16 in. (4.76 mm) throat.

#### Products

Architectural grilles shall be Greenheck Airfoil Grilles as follows:

- Material: Extruded Aluminum, Alloy 6063T5
- Airfoil Blade Thickness: 0.081 in. (2.06 mm), or as indicated
- Grille Depth: Specify 3½ in. (88.9 mm) to 6 in. (152.4 mm), or as indicated
- Perimeter Frame: Specify Aluminum Bar, Channel or Tube, or as indicated
- Airfoil Blade Angle: Specify zero to 60 degrees, or as indicated
- Horizontal Bar Spacing: Specify 2 in. (50.8 mm) to 12 in. (304.8 mm), or as indicated

## DETAIL DRAWINGS



## FINISHES

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)
2-coat 70% KYNAR 500®/HYLAR 5000® AAMA 2605 – Dry film thickness 1.2 mil. (AKA: Duranar®, Fluoropon®, Trinar®, Flouropolymer, Polyvinylidene Fluoride, PVDF2)	<b>“Best.”</b> The premier finish for extruded aluminum. Tough, long-lasting coating has superior color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	<b>Standard Colors:</b> Any of the 24 standard colors shown can be furnished in 70% or 50% KYNAR 500®/HYLAR 5000® or Baked Enamel.  <b>2-Coat Mica:</b> Greenheck offers 9 standard 2-coat Mica colors. Other colors are available. Consult Greenheck for possible extra cost when selecting non-standard colors or special finishes.	10 Years (Consult Greenheck for availability of extended warranty)
2-coat 50% KYNAR 500®/HYLAR 5000® AAMA 2604 – Dry film thickness 1.2 mil. (AKA: Acroflur®, Acrynar®)	<b>“Better.”</b> Tough, long-lasting coating has excellent color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.		5 Years
Baked Enamel AAMA 2603 – Dry film thickness 0.8 mil. (AKA: Acrabond Plus®, Duracron®)	<b>“Good.”</b> Provides good adhesion and resistance to weathering, corrosion and chemical stain.		1 Year
Integral Color Anodize AA-M10C22A42 (>0.7 mil)	“Two-step” anodizing is produced by following the normal anodizing step with a second, colorfast process.	Light, Medium or Dark Bronze; Champagne; Black	5 years
Clear Anodize 215 R-1 AA-M10C22A41 (>0.7 mil)	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	5 years
Clear Anodize 204 R-1 AA-M10C22A31 (0.4-0.7 mil)	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year
Industrial coatings	Greenheck offers a number of industrial coatings such as Hi-Pro Polyester, Epoxy, and Permatector®. Consult a Greenheck Product Specialist for complete color and application information.		Consult Greenheck
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](http://www.greenheck.com) for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.



Airfoil Grille March 2007  
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