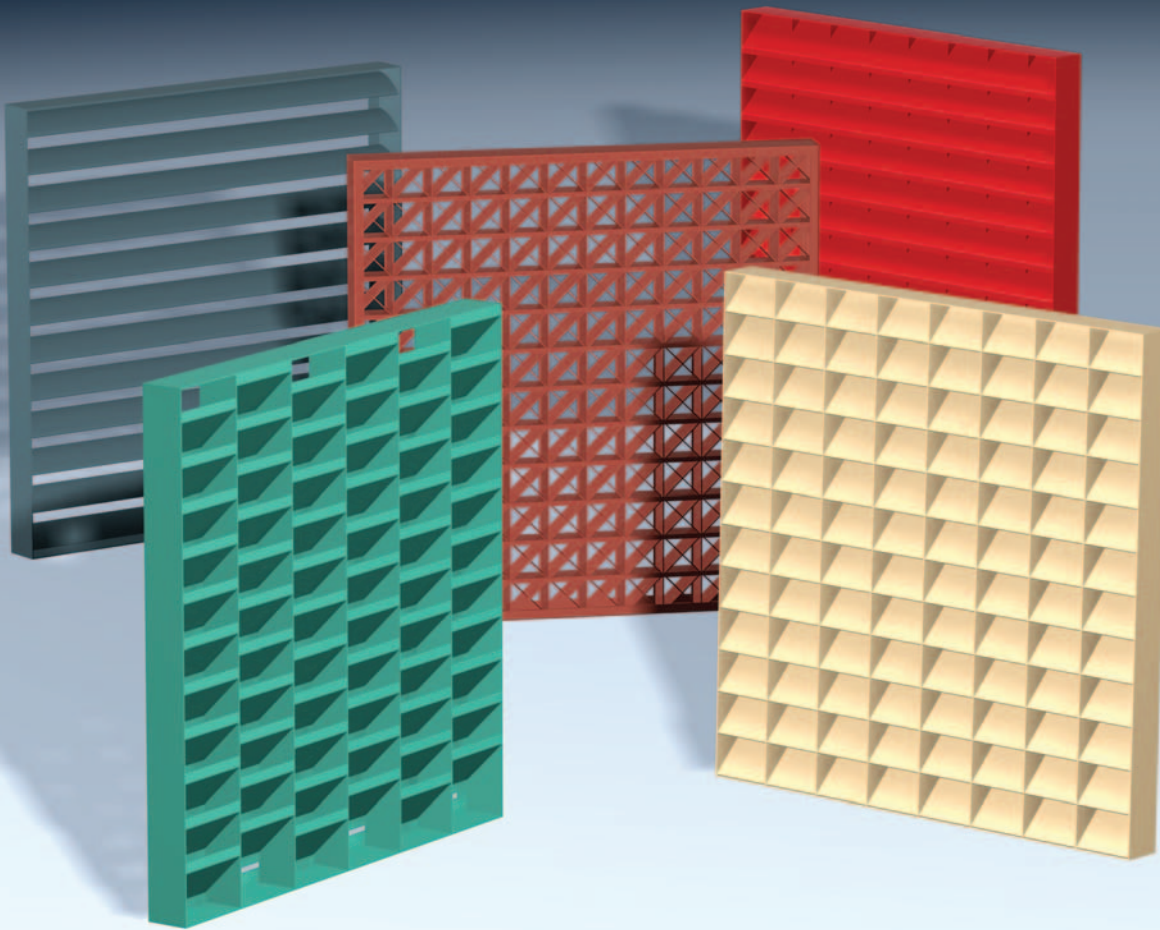


# Architectural Grilles

## Standard and Custom Designs



BUILDING VALUE IN AIR.



April  
2007

Greenheck's Architectural Grilles are built to meet your design requirements. Choose from one of our ten standard designs or work with Greenheck engineers to create a custom design to meet your project needs. The architectural grilles can function as sight and solar screens or as detailed accents on your building. From parking garages to high-rise office buildings, Greenheck Architectural Grilles add value to any project.

All Architectural Grilles are fabricated from extruded aluminum and assembled by welding. Finish options available are Kynar, Baked Enamel, Mica and Anodized coatings in standard or custom colors. For information regarding Greenheck Architectural Grilles and our custom capabilities, please contact your local representative.



## Airfoil Grille



The airfoil blade can span section widths up to a maximum of 12 ft. depending on blade depth and angle.

**Vertical Bar Spacing:**

N/A

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

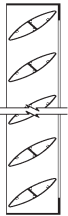
0° to 45°

**Grille Depth:**

3.5 to 6 in. (89 to 152 mm)

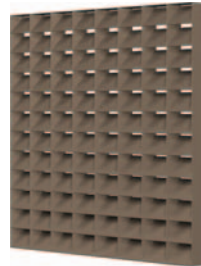
**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



SECTION VIEW

## Angular Bar Grille



Horizontal blade members range from 0° to 60° to provide visual and solar screening.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

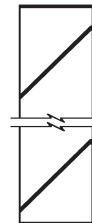
0° to 60°

**Grille Depth:**

2 to 6 in. (51 to 152 mm)

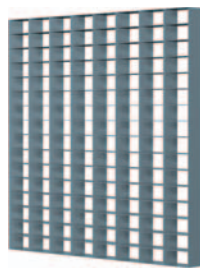
**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



SECTION VIEW

## Bar Grille



Specify vertical and/or horizontal bar spacing and thickness to achieve sight screening and decorative appeal.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

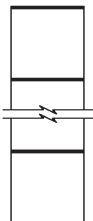
N/A

**Grille Depth:**

2 to 6 in. (51 to 152 mm)

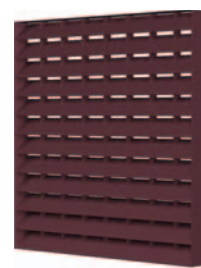
**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



SECTION VIEW

## Continuous-Bar Grille



The rear-justified vertical bar presents an uninterrupted horizontal bar appearance.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

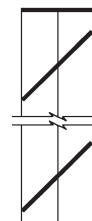
0° to 45°

**Grille Depth:**

2 to 6 in. (51 to 152 mm)

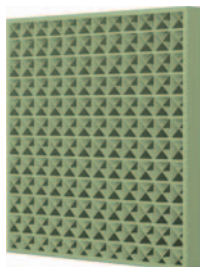
**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



SECTION VIEW

## Diamond Grille



This diamond pattern interlocking bar grille is an excellent security or sight barrier. Cross members are intersected to achieve depth of field.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

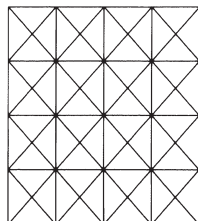
N/A

**Grille Depth:**

2 to 4 in. (51 to 102 mm)

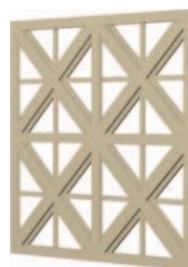
**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



ELEVATION VIEW

## Geometric Grille



Any geometric configuration, whether simple or complex, can be reproduced to exact detail with multiple reveals. Specify aluminum thickness and finish.

**Vertical Bar Spacing:**

N/A

**Horizontal Bar Spacing:**

N/A

**Horizontal Bar Angle:**

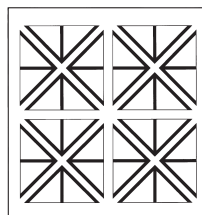
N/A

**Grille Depth:**

3/8 to 6 in. (9.5 to 152 mm)

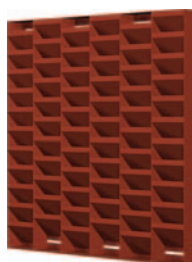
**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



ELEVATION VIEW

## Inverted Blade Grille



A unique use of inverted blade orientation prevents light transmission from inside a structure but delivers filtered sunlight during daylight hours.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

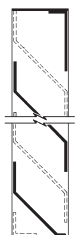
45°

**Grille Depth:**

3 in. (76 mm)

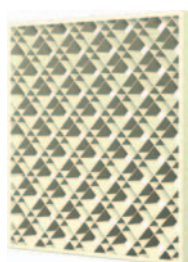
**Aluminum Thickness:**

0.125 in. (3 mm)



SECTION VIEW

## Matrix Grille



Bar spacing and size can be varied to achieve a wide range of effects. Configurations may be rotated to a 45° angle.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

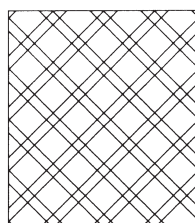
0° to 45°

**Grille Depth:**

2 to 6 in. (51 to 152 mm)

**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



ELEVATION VIEW

## Shadow-Line Grille



Rear-justified vertical member permits continuous horizontal bar appearance for sight screening and sun control.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

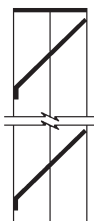
45°

**Grille Depth:**

2 to 6 in. (51 to 152 mm)

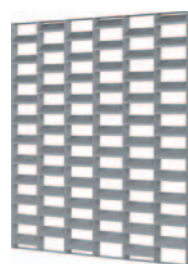
**Aluminum Thickness:**

0.125 to 0.250 in. (3 to 6 mm)



SECTION VIEW

## Tube Grille



The hollow blade can replicate traditional shutters or the staggered arrangement offers a contemporary pattern.

**Vertical Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Spacing:**

2 to 12 in. (51 to 305 mm)

**Horizontal Bar Angle:**

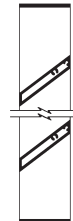
37°

**Grille Depth:**

2 in. (51 mm)

**Aluminum Thickness:**

0.073 in. (1.85 mm)



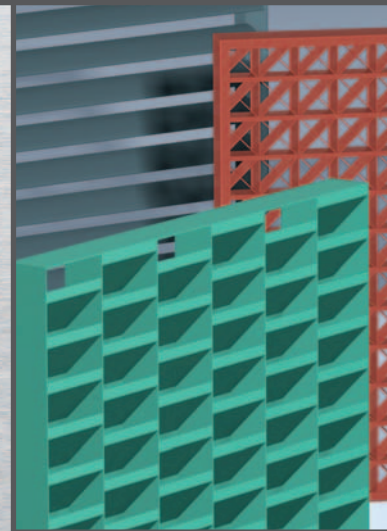
SECTION VIEW

# Specifications

Furnish and install [specify grille type] as designed and manufactured by Greenheck Fan Corporation, Schofield, Wisconsin USA. Select and identify grille features from Grille Specification Table. Grilles shall be furnished in the configurations represented on the plan drawings and shall include installation hardware and finishes as specified. Grilles shall be finished [specify coating] in a color selected from the manufacturer's standard color chart.

Manufacturer shall:

- Submit shop drawings incorporating key plans, elevations, sections and details showing profiles, angles and spacing of components and frames; unit dimensions related to wall openings and construction; and anchorage details and location.
- Submit theoretical calculations prepared by a professional engineer specializing in the application of welding technology demonstrating that each fillet weld joining blade and frame members will withstand a minimum of 526 pounds of force in shear. 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.
- Provide samples of manufacturer's finish and color charts showing the full range of finishes and colors available.



## Building Value in Air

Greenheck delivers value to mechanical engineers by helping them solve virtually any air quality challenges their clients face with a comprehensive selection of

top quality, innovative air-related equipment. We offer extra value to contractors by providing easy-to-install, competitively priced, reliable products that arrive on

time. And building owners and occupants value the energy efficiency, low maintenance and quiet dependable operation they experience long after the construction project ends.

## Our Warranty

Greenheck warrants this equipment to be free from defects in material and workmanship for a period of one year from the purchase date. Any units or parts which prove defective during the warranty period will be replaced at our option when returned to our factory, transportation prepaid. Motors are warranted by the motor manufacturer for a period of one year. Should motors furnished by Greenheck prove defective during this period, they should be returned to the nearest authorized motor service station. Greenheck will not be responsible for any removal or installation costs.

*As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.*



Prepared to Support Green Building Efforts

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