



WOODWORKS® Grille
Backer and Dowel, Tegular

Inspiring Great Spaces™

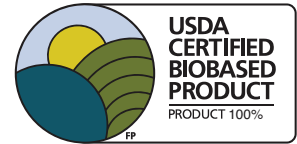


CEILING & WALL SYSTEMS

WOODWORKS® Grille Backer and Dowel



The mark of responsible forestry



WoodWorks Grille Ceiling-to-Wall Transition 2-1/4" Grilles in Light Cherry with Backer



Visit Armstrong.com Photo Gallery to view more installation photos

SEARCH: woodworks grille

KEY SELECTION ATTRIBUTES



- Two standard blade sizes available
- New painted White finish for maximum design flexibility
- Install in the ceiling, on the wall, or create 90° angled or faceted ceiling-to-wall transitions
- Easy installation with dowel or backer
- Custom curved application available with flexible backer
- Custom blade sizes available

FINISH SELECTION

Due to printing limitations, shade may vary from actual product.



Grille White (GWH)

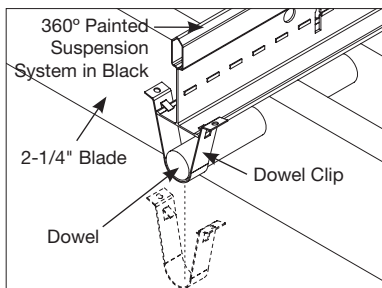
Grille Maple (GMP)

Grille Light Cherry (GLC)

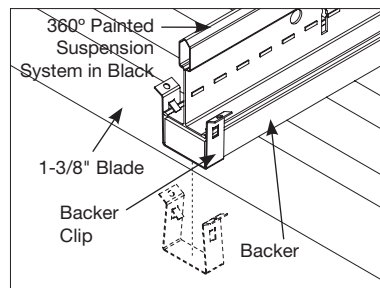
Grille Dark Cherry (GDC)

Grille Walnut (GWN)

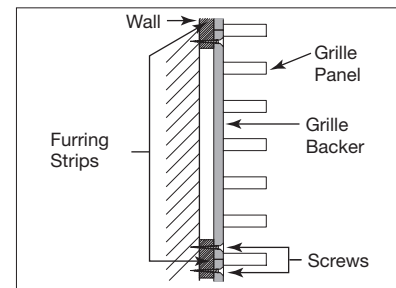
SYSTEM INSTALLATION DETAILS



Ceiling Dowel Assembly



Ceiling Backer Assembly



Wall Backer Assembly

Pictured on cover: WoodWorks Grille Ceilings 2-1/4" Grilles in White on Prelude® Heavy-duty suspension system in Black; Food and Beverage Company, Purchase, NY

In addition to these standard options, there are more finish, size, and curved design choices available as custom options. Contact Armstrong Architectural Specialties for details at 1 877 ARMSTRONG and select prompts 1-1-4.

WOODWORKS® Grille Backer and Dowel

LEED®



- energy management
- construction waste mgmt
- regional materials*
- design for flexibility
- EPD
- recycled/extended producer resp.
- biobased materials
- FSC® (for wood)*
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at armstrong.com/greengenie

*LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE Dots represent high level of performance.

| Edge Profile | Item Number* | Description | Dimensions (Inches) Nominal W x L x H | Acoustics NRC* |
|---|---------------|-----------------|---|-------------------|
| WOODWORKS Grille – Backer and Dowel | | | | |
|  | 7263_ _ _ _ * | 1-3/8" 6 blades | 12 x 96 x 1-7/8" with Backer 12 x 96 x 1-3/8" with Dowel | 0.75 |
| | 7264_ _ _ _ * | 1-3/8" 8 blades | 12 x 96 x 1-7/8" with Backer 12 x 96 x 1-3/8" with Dowel | 0.75 |
|  | 7265_ _ _ _ * | 2-1/4" 6 blades | 12 x 96 x 2-3/4" with Backer 12 x 96 x 2-1/4" with Dowel | 0.75 |
| | 7266_ _ _ _ * | 2-1/4" 8 blades | 12 x 96 x 2-3/4" with Backer 12 x 96 x 2-1/4" with Dowel | 0.75 |

* When specifying or ordering Backer or Dowel panels, please include the installation type and color suffixes (e.g., 7263 B Q G L C – 6 blades 1-3/8" Backer in Grille Light Cherry).
Installation suffixes: BO = Backer, DO = Dowel

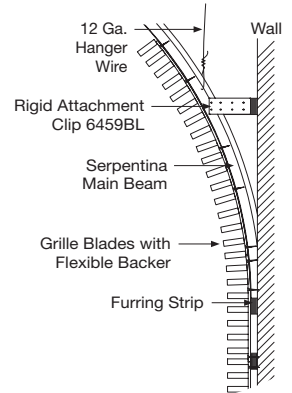
* NRC 0.75 with acoustical infill item 5823.

NOTE: For additional color and size options, as well as curved applications requiring flexible Backers available as special order, call Architectural Specialties at 1 877 ARMSTRONG and select options 1-1-4.

ACCESSORIES

| Item Number | Description | Dimensions (Inches) Nominal W x L x H | Color | Pieces/Carton |
|--------------|---------------------------|--|--------------------|---------------|
| 5687 | Backer Clip | 3/8 x 11/16 x 7/8" | N/A | 250 pcs/pail |
| 5688 | Dowel Clip | 3/8 x 7/8 x 7/8" | N/A | 250 pcs/pail |
| 5671_ _ _ ** | Ledger | 1 x 96 x 1/4" | See Finishes Below | Bulk |
| 5672_ _ _ ** | Junction – 1-3/8" | 1-1/2 x 96 x 2" | See Finishes Below | Bulk |
| 5673_ _ _ ** | Junction – 2-1/4" | 1-1/2 x 96 x 2-3/4" | See Finishes Below | Bulk |
| 5674_ _ _ ** | End Cap – 1-3/8" | 3/4 x 96 x 2" | See Finishes Below | Bulk |
| 5675_ _ _ ** | End Cap – 2-1/4" | 3/4 x 96 x 2-3/4" | See Finishes Below | Bulk |
| 7891 | 12 Gauge Soft Hanger Wire | 144" Length | N/A | 140 |
| 92715A620 | Self-tapping Screws | #2 x 3/4" Length | Black | 25 |
| 6459BL | Uptight Clip | 5-1/2 x 1-3/4" | Black | 25 |
| RC2BL | RC2 Radius Clip | N/A | Black | 205 |
| 5823 | BioAcoustic™ Infill Panel | 24 x 24 x 5/8" | Black (Matte) | 10 |

** When specifying or ordering, include the three-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 5671 G M P).



WoodWorks Grille
Ceiling-to-Wall Transition
Installation Detail

FINISHES Grille White (GWH) Grille Maple (GMP) Grille Light Cherry (GLC) Grille Dark Cherry (GDC) Grille Walnut (GWN)

SUSPENSION SYSTEMS

| | |
|--------|---|
| 15/16" | Prelude® XL® (Black recommended), 360° Painted with 4' cross tee route holes at 12" |
| 15/16" | Serpentina® Main Beam (for use with Flexible Backers) in Black |

NOTE: For ceilings with a radius of 12-1/2" or greater, use standard panels and 15/16" main beams faceted 12" on center with RC2BL clips.

PHYSICAL DATA

Material

Blades, Backers, and Dowels – Solid Poplar (yellow or hybrid) (SW-COC-003601)

Surface Finish

Clear or tinted semigloss coating on all finishes except Grille White (GWH). Grille White (GWH) has a lacquer finish.

Fire Performance

Solid Poplar Hardwood Blades and Backers – ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

Solid Birch Hardwood Dowels – ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

Class A intumescent treatment is available for all finishes EXCEPT Grille White (GWH).

Fire performance will vary between wood species.

Composite Grille product testing has not been completed, since results will vary on a project-by-project basis. Contact TechLine at 1 877 ARMSTRONG for details.

WoodWorks Grille, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

Design Considerations

For blade heights over 5", both Dowels and Backers are required for stability. Blade sizes over 2-1/4" are not recommended for wall applications. Contact the Architectural Specialties project management team for details at 1 877 ARMSTRONG and select options 1-1-4.

It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and

55% and temperatures between 50°F and 86°F must be maintained.

Installation Consideration

When junction accessory is not used, leave 2" gap between blade lengths. Panels are 95" long to accommodate junction or gap.

Seismic Restraint

WoodWorks Grille has been engineered, tested, and approved in all seismic areas.

Warranty

Warranty details at armstrong.com/warranty

Weight; Square Feet/Carton

7263 – 2.0 lbs/SF
7264 – 2.6 lbs/SF
7265 – 2.8 lbs/SF
7266 – 3.6 lbs/SF

WOODWORKS® Grille

Backer and Dowel

FIRE PERFORMANCE – SOLID WOOD

Reported Flame Spread Indices Code Classification Ranges

| Class | Flame Spread Range | Example Locations |
|----------|--------------------|-------------------------|
| I or A | 0-25 | Enclosed vertical exits |
| II or B | 26-75 | Exit access corridors |
| III or C | 76-200 | Other rooms and areas |

Solid wood is widely used in interior wall, ceiling, and floor surfaces in all types of buildings.

Appearance, acoustical qualities, and interior design versatility have made wood surfaces highly desired by architects, designers, and building occupants.

This chart briefly shows building code flame spread regulations on products used as interior finishes and presents performance data on a range of wood products.

Reference sources are noted. Always reconfirm ASTM compliance on a project-by-project basis.

| Material ¹ | ASTM E84 Flame Spread ² | Source ³ |
|--------------------------------|------------------------------------|---------------------|
| Lumber | | |
| Ash | 80 | HPVA |
| Birch, Yellow | 105-110 | UL |
| Cedar, Alaska Yellow | 50 | HPVA2 |
| Cedar, Pacific Coast Yellow | 78 | CWC |
| Cedar, Port Orford | 60 | HPVA2 |
| Cedar, Western Red | 70 | HPVA |
| Cedar, Western Red | 73 | CWC |
| Cherry 3/4" | 76 | HPVA |
| Cottonwood | 115 | UL |
| Cypress | 145-150 | UL |
| Elm 3/4" | 76 | HPVA |
| Fir, Douglas | 70-100 | UL |
| Fir, Douglas 3/4" flooring | 83-98 | WEY |
| Fir, Amabilis (Pacific Silver) | 69 | CWC |
| Fir, White | 65 | HPVA2 |
| Gum, Red | 140-155 | UL |
| Hemlock, West Coast | 60-75 | WEY, UL |
| Larch, Western | 45 | HPVA2 |
| Maple (flooring) | 104 | CWC |
| Oak, Red, or White | 100 | UL |
| Oak, Red 3/4" | 84 | HPVA |

| Material ¹ | ASTM E84 Flame Spread ² | Source ³ |
|-----------------------|------------------------------------|---------------------|
| Lumber | | |
| Oak, White 3/4" | 77 | HPVA |
| Pecan 3/4" | 84 | HPVA |
| Pine, Eastern White | 85 | CWC |
| Pine, Idaho White | 72 | HPVA |
| Pine, Idaho White | 82 | WEY |
| Lauan 1/4" | 150 | HPVA |
| Pine, Northern White | 120-215 | UL |
| Pine, Ponderosa | 115 | HPVA2 |
| Pine, Red | 142 | CWC |
| Pine, Southern Yellow | 130-195 | UL |
| Pine, Sugar | 95 | HPVA2 |
| Pine, Western White | 75 | UL |
| Poplar, Yellow | 170-185 | UL |
| Redwood | 70 | UL |
| Redwood 3/8" | 102 | UL |
| Spruce, Engelmann | 55 | HPVA2 |
| Spruce, Northern | 65 | UL |
| Spruce, Sitka | 74 | CWC |
| Spruce, Western | 100 | UL |
| Walnut | 130-140 | UL |
| Walnut 3/4" | 101 | HPVA |

1 Thickness of material tested is one-inch nominal except where indicated.

2 The ASTM E84 test method has been revised a number of times during the years referenced by the source reports. However, the E84 test apparatus has changed little over this period. Slightly different flame spread indices, usually lower, result when recent E84 flame spread calculation techniques are applied to older wood product data. These changes in flame spread indices are not sufficient to change the flame spread class for the wood products described in this report.

3 Sources:

APA – APA-The Engineered Wood Association, Research Reports 128, Revised, August 1979.

APA2 – APA-The Engineered Wood Association Test Results.

CWC – Fire Safety Design in Buildings, Canadian Wood Council, 1996.

HPVA – Hardwood Plywood and Veneer Association, Test Reports, 202, 203, 335, 336, 337, 592, and 596; Special flame spread performance tests, August 1974; T9234, T9237, T9317, T9344, T9354, May 1995; T9422, T9430, T9431, T9453, T9665, February/July 1997.

HPVA2 – Hardwood Plywood and Veneer Association, March/April 1995; October/December 2000; June 2008.

NIST – National Institute of Standards and Technology (formerly National Bureau of Standards), Technical Notes 879 and 945.

UL – Underwriter's Laboratory, UL 527, May 1971; Subject 723, Assignment 71SC509, March 15 & 16, 1971; Assignment 84NK1898, File R10917, March 9, 1984.

WEY – Weyerhaeuser Fire Laboratory, 1973, 1987, January & February 1988.

NOTE: While effort has been made to ensure the accuracy of the information in this publication, the American Forest & Paper Association, Armstrong World Industries, and the Companies and Associations identified do not assume responsibility for the accuracy of the indices reported, the applicability or extension of the reported flame spread values to specific products, or their acceptance for use in particular applications. Includes updates through June 2008.

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ACOUSTICAL PERFORMANCE

Noise Reduction Coefficient, or NRC, is a measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. WoodWorks Grille has an NRC value of 0.75 when installed with a BioAcoustic™ infill panel.

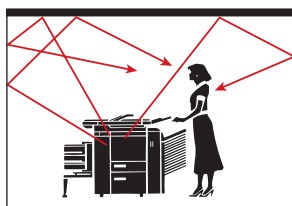
NRC is important in any closed space where reverberation time and noise levels are an issue:

- Closed offices, conference rooms
- Mixed plan office
- Lobby, reception, and work areas
- Classrooms/core learning areas, gymnasiums, cafeterias

- Retail spaces; checkout and other customer contact areas

Factors that may affect the installed acoustical performance relative to the published results are:

- Size of area
- Number of panels
- Layout of panels
- Suspension distance below exposed deck or finished ceiling
- Other surfaces in the space



| | Ceiling | Exposed Structure (no Ceiling) | Ultima® (100% Ceiling) | WoodWorks Grille (100% Ceiling) |
|---|---------|--------------------------------|------------------------|---------------------------------|
| Reverberation Time (RT) | | 3.4 seconds | 0.5 seconds | 0.5 seconds |
| RT Improvement | | N/A | 85% | 85% |
| Background Noise Reduction in Decibels (dB) | | N/A | 4.7dB | 5.8dB |

* You can calculate the acoustical difference that WoodWorks Grille panels can make in your space by using our online Reverb Calculator Tool at armstrong.com/reverbtool

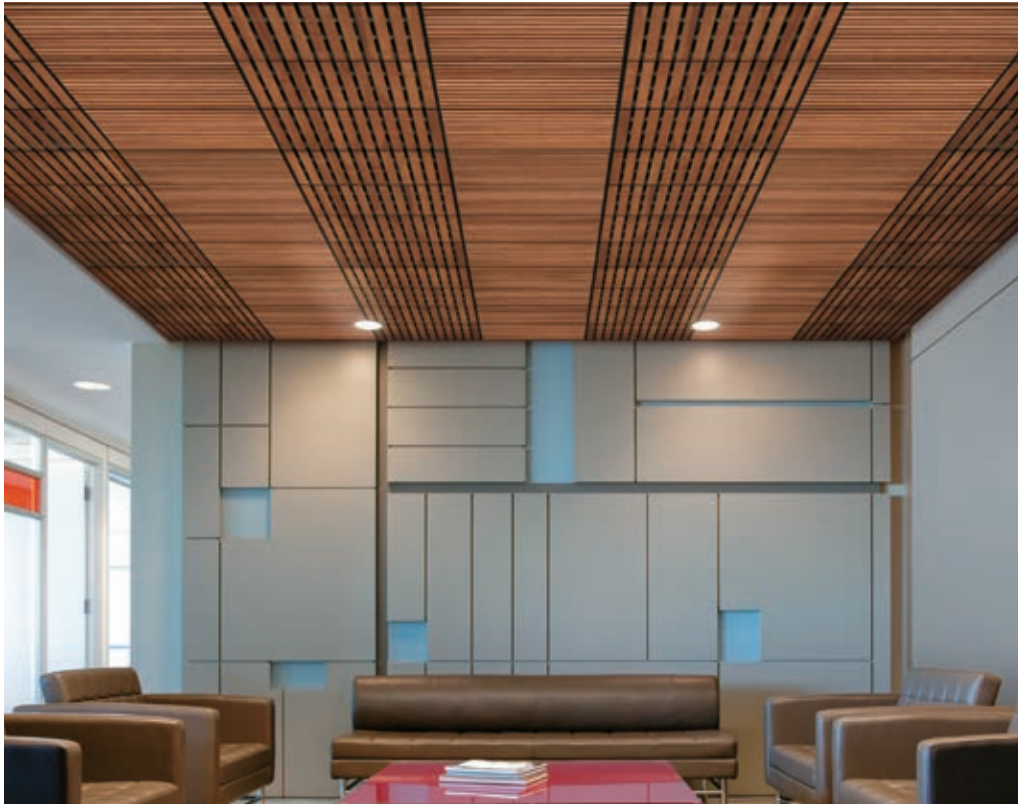
WoodWorks® Grille Walnut (1-3/8-inch blade).
Fossil Headquarters, Richardson, TX



WOODWORKS

WOODWORKS® Grille

Tegular



WoodWorks Grille Tegular item 662808 24" x 24" with 12 Horizontal Blades in Grille Dark Cherry on Suprafine® 9/16" suspension system in Black



KEY SELECTION ATTRIBUTES



- Panels feature solid wood blades that can be installed in a linear fashion or patterned for endless variety
- New painted White finish for maximum design flexibility
- Vertical blades are deeper than they are wide creating a more open feel
- Horizontal blades are wider than they are deep creating a warm, more solid look
- 24" x 24" and 24" x 48" sizes available in vertical and horizontal blade designs
- Panels are designed so the suspension system virtually disappears
- Tegular panels with backers easily install on standard suspension systems
- Create continuous looks and clouds with Axiom® Vector® trim

FINISH SELECTION Due to printing limitations, shade may vary from actual product.



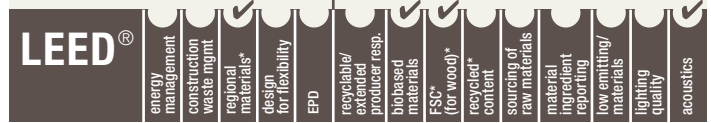
PANEL DETAILS



WoodWorks Grille Tegular panel with **Horizontal Blades**

In addition to these standard options, there are other sizes and veneers available with WoodWorks Custom systems. Contact Armstrong Architectural Specialties for details at 1 877 ARMSTRONG and select options 1-1-4.

WOODWORKS® Grille Regular



Calculate LEED contribution at armstrong.com/greengenie

*LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE

Dots represent high level of performance.

| Edge Profile | Item Number* | Description | Dimensions (Inches) Nominal W x L x H | Acoustics NRC* |
|--|--------------|-----------------------------------|--|-------------------|
| WOODWORKS Grille Regular for 9/16" Suspension System | | | | |
| | 662808__* | 1/2 x 1-1/2" 12 Horizontal Blades | 24 x 24 x 1" □ | 0.75 • |
| | 663008__* | 1/2 x 1-1/2" 12 Horizontal Blades | 24 x 48 x 1" □ | 0.75 • |
| | 662912__* | 1/2 x 1-1/2" 12 Vertical Blades | 24 x 24 x 2" □ | 0.85 • |
| | | | | |
| WOODWORKS Grille Regular for 15/16" Suspension System | | | | |
| | 662812__* | 1/2 x 1-1/2" 10 Horizontal Blades | 24 x 24 x 1" □ | 0.75 • |
| | 663012__* | 1/2 x 1-1/2" 10 Horizontal Blades | 24 x 48 x 1" □ | 0.75 • |
| | 663112__* | 1/2 x 1-1/2" 12 Vertical Blades | 24 x 48 x 2" □ | 0.85 • |
| | | | | |

* When specifying or ordering, please include the appropriate color suffix (e.g., 663008 G L C).

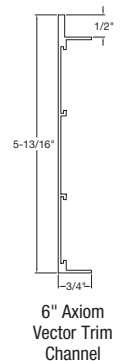
* NRC 0.75 or 0.85 with acoustical infill item 5823.

NOTE: For additional color and size options, as well as curved applications requiring flexible Backers available as special order, call Architectural Specialties at 1 877 ARMSTRONG and select options 1-1-4.

ACCESSORIES

| Item Number | Description | Dimensions (Inches) Nominal | Color | Pieces/Carton |
|-------------|-----------------------------|--------------------------------|---------------|---------------|
| AX4VESTRBL | 4" Axiom® Vector® | 120 x 3/4 x 4" | Black (BL) | — |
| AX6VESTRBL | 6" Axiom Vector** | 120 x 3/4 x 6" | Black (BL) | — |
| AX4VEQISIBL | 4" Inside Corner Post | 3/4 x 3/4 x 4" | Black (BL) | — |
| AX6VEQISIBL | 6" Inside Corner Post | 3/4 x 3/4 x 6" | Black (BL) | — |
| AX4VEOSCPBL | 4" Outside Corner Post | 3/4 x 3/4 x 4" | Black (BL) | — |
| AX6VEOSCPBL | 6" Outside Corner Post | 3/4 x 3/4 x 6" | Black (BL) | — |
| AXTBC | T-Bar Connector Clip | N/A | N/A | 10 |
| AXSPICE | Splice Plate with Setscrews | N/A | N/A | 10 |
| SH12 | Support Hanger | 144 x 2" | N/A | 12 |
| 5823 | BioAcoustic™ Infill Panel | 24 x 24 x 5/8" | Black (Matte) | 12 |

** Trim cartons include AXTBC Clips and AXSPICE Plates.



FINISHES

Grille White (GWH) Grille Maple (GMP) Grille Light Cherry (GLC) Grille Dark Cherry (GDC) Grille Walnut (GWN)

SUSPENSION SYSTEMS

| | |
|--------|---|
| 15/16" | Prelude® XL® (Black recommended), 360° Painted with 4' cross tee route holes at 12" |
| 9/16" | Suprafine® XL® 9/16" Exposed Tee (Black recommended) |

PHYSICAL DATA

Material

Solid Poplar (yellow or hybrid) (SW-COC-003601)

Surface Finish

Clear or tinted semigloss coating on all finishes except Grille White (GWH). Grille White (GWH) has a lacquer finish.

Fire Performance

Solid Poplar Hardwood Blades and Backers – ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

Class A intumescent treatment is available for all finishes EXCEPT Grille White (GWH).

Composite Grille product testing has not been completed, since results will vary on a project-by-project basis. Contact TechLine at 1 877 ARMSTRONG for details.

WoodWorks Grille, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. For more fire performance information, visit armstrong.com/grille

Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

Design Considerations

If no infill panel is used, unfinished parts of the suspension system and Axiom will be visible from below.

24" x 24" vertical blade panels are designed for checkerboard only. An uneven reveal between blades will be visible, if installed in a linear fashion.

Seismic Restraint

WoodWorks Grille has been engineered, tested, and approved in all seismic areas.

Warranty

Warranty details at armstrong.com/warranty

Weight; Square Feet/Carton - Bulk Packaged

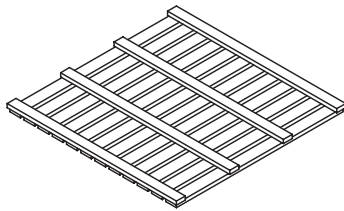
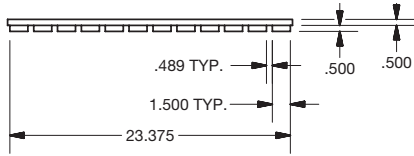
662808, 662912, 663008, 663112 – 0.875 lbs/SF
662812, 663012 – 0.775 lbs/SF

WOODWORKS® Grille

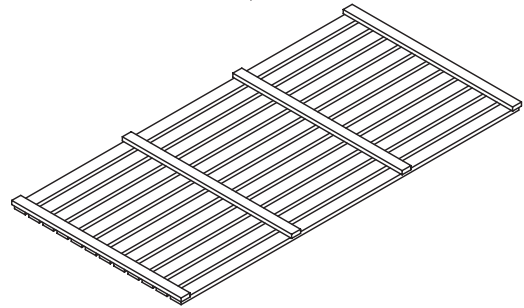
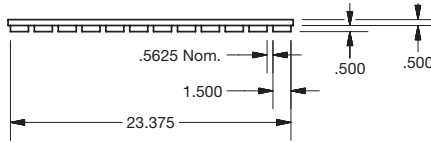
Tegular

TEGULAR PANEL DETAILS

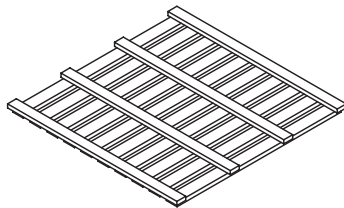
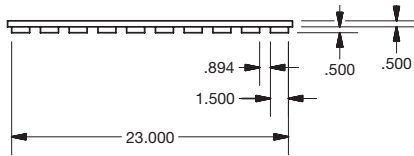
Item 662808 - 24" x 24" with 12 Horizontal Blades for 9/16" Suspension System



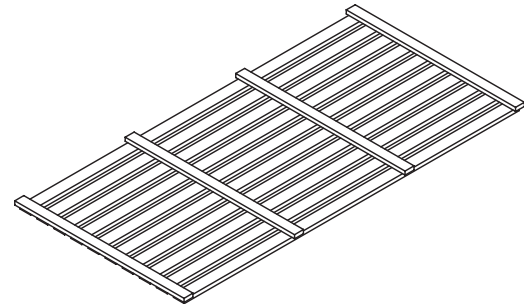
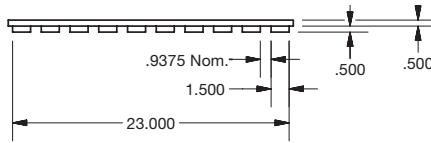
Item 663008 - 24" x 48" with 12 Horizontal Blades for 9/16" Suspension System



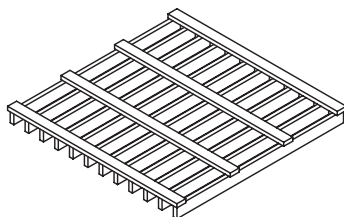
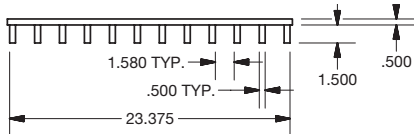
Item 662812 - 24" x 24" with 10 Horizontal Blades for 15/16" Suspension System



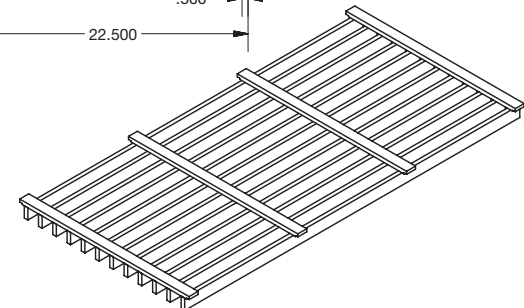
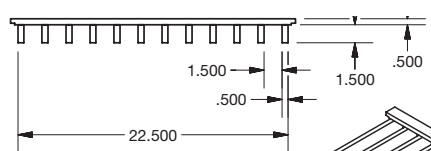
Item 663012 - 24" x 48" with 10 Horizontal Blades for 15/16" Suspension System



Item 662912 - 24" x 24" with 12 Vertical Blades for 9/16" Suspension System (for checkerboard applications)



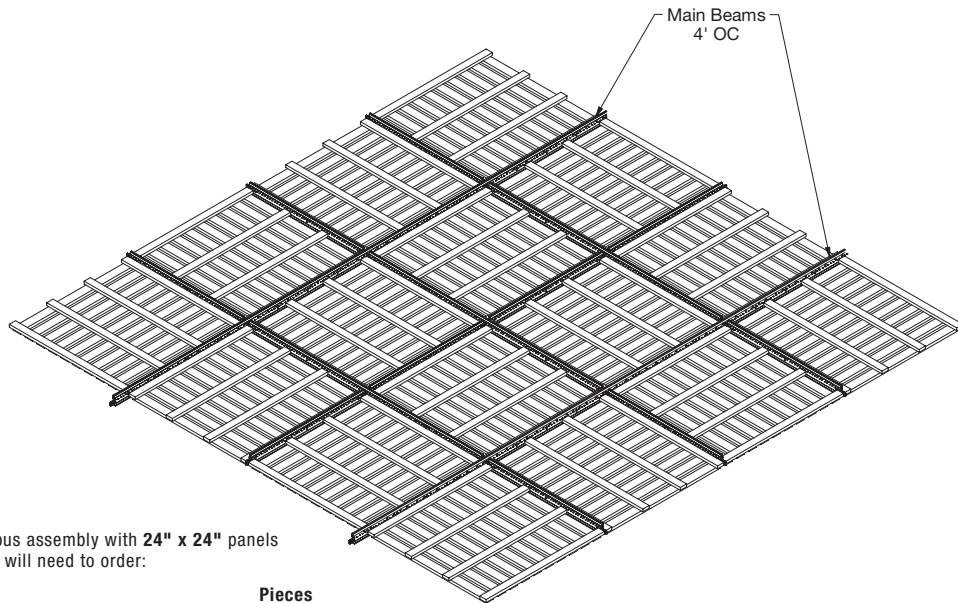
Item 663112 - 24" x 24" with 12 Vertical Blades for 15/16" Suspension System (for linear applications)



WOODWORKS® Grille

Tegular

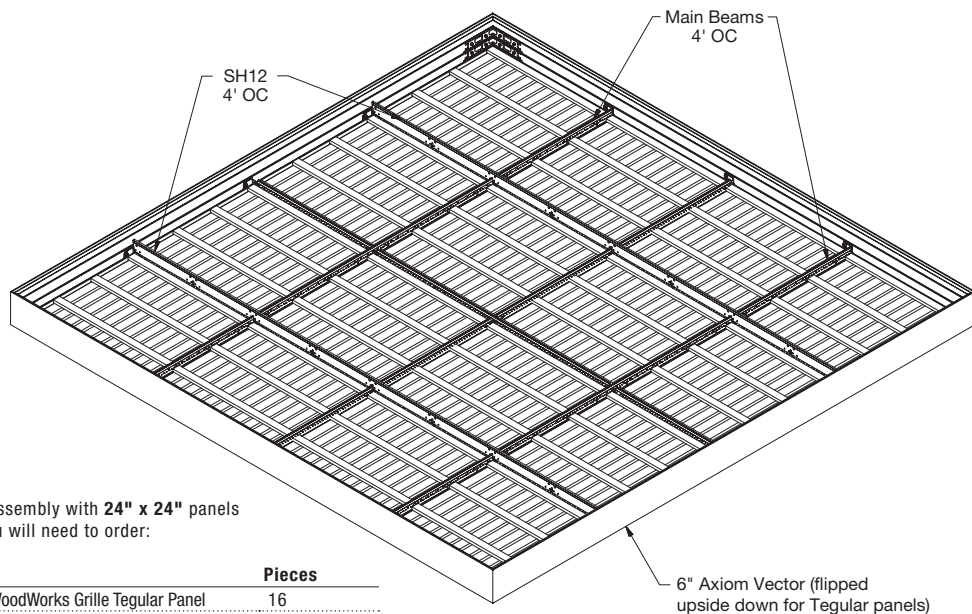
INSTALLATION DETAILS - CONTINUOUS SYSTEM (TEGULAR PANELS)



For a basic continuous assembly with 24" x 24" panels (pictured right), you will need to order:

| Item | Pieces |
|---|--------|
| 662812 24" x 24" WoodWorks Grille Tegular Panel | 16 |
| 7301BL Main Beam cut to length | 2 |
| XL7328BL 2' Cross Tee | 4 |
| XL8340BL 4' Cross Tee | 9 |

INSTALLATION DETAILS – FLOATING SYSTEM (TEGULAR PANELS)



For a basic cloud assembly with 24" x 24" panels (pictured right), you will need to order:

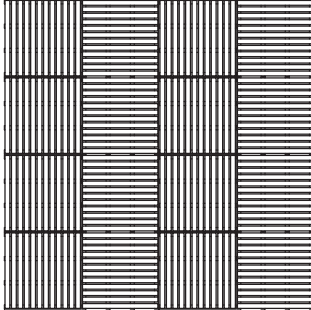
| Item | Pieces |
|---|--------|
| 662812 24" x 24" WoodWorks Grille Tegular Panel | 16 |
| 7301BL Main Beam cut to length | 2 |
| SH12 cut to length | 2 |
| XL7328BL 2' Cross Tee | 2 |
| XL8340BL 4' Cross Tee | 3 |
| XL8340BL 4' Cross Tee cut to length (perimeter) | 8 |
| 6" Axiom® Vector® cut to length | 4 |
| AXTBC T-Bar Connector Clip | 12 |

WOODWORKS® Grille

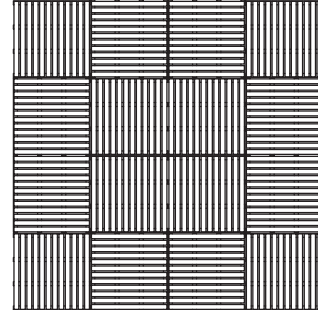
Accessories

REGULAR PANEL INSTALLATION IDEAS

Design Ideas – 24" x 24" Panels for 9/16" Suspension System

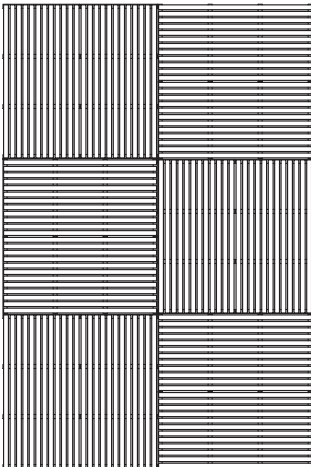


16 - item 662808
24" x 24" WoodWorks Grille Tegular with Horizontal Blades

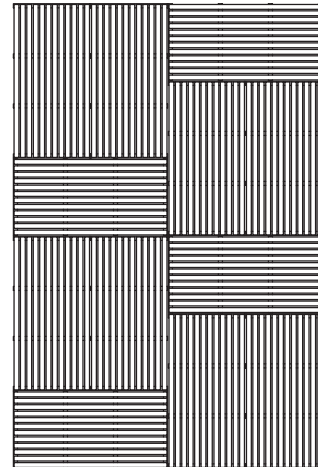


16 - item 662808
24" x 24" WoodWorks Grille Tegular with Horizontal Blades

Design Ideas – 24" x 48" Panels for 9/16" Suspension System

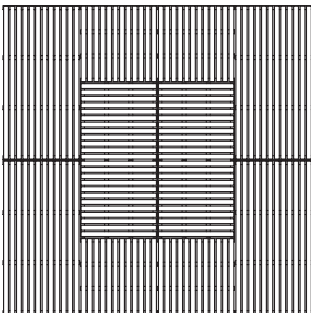


12 - item 663008
24" x 48" WoodWorks Grille Tegular with Horizontal Blades

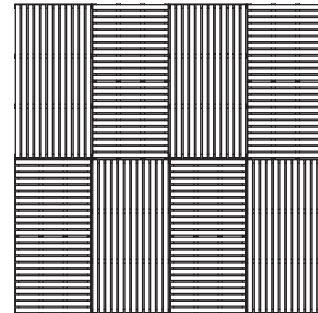


12 - item 663008
24" x 48" WoodWorks Grille Tegular with Horizontal Blades

Design Ideas – 24" x 24" and 24" x 48" Panels for 9/16" Suspension System



8 - item 662808
24" x 24" WoodWorks Grille Tegular with Horizontal Blades
4 - item 663008
24" x 48" WoodWorks Grille Tegular with Horizontal Blades



8 - item 662808
24" x 24" WoodWorks Grille Tegular with Horizontal Blades
4 - item 663008
24" x 48" WoodWorks Grille Tegular with Horizontal Blades