



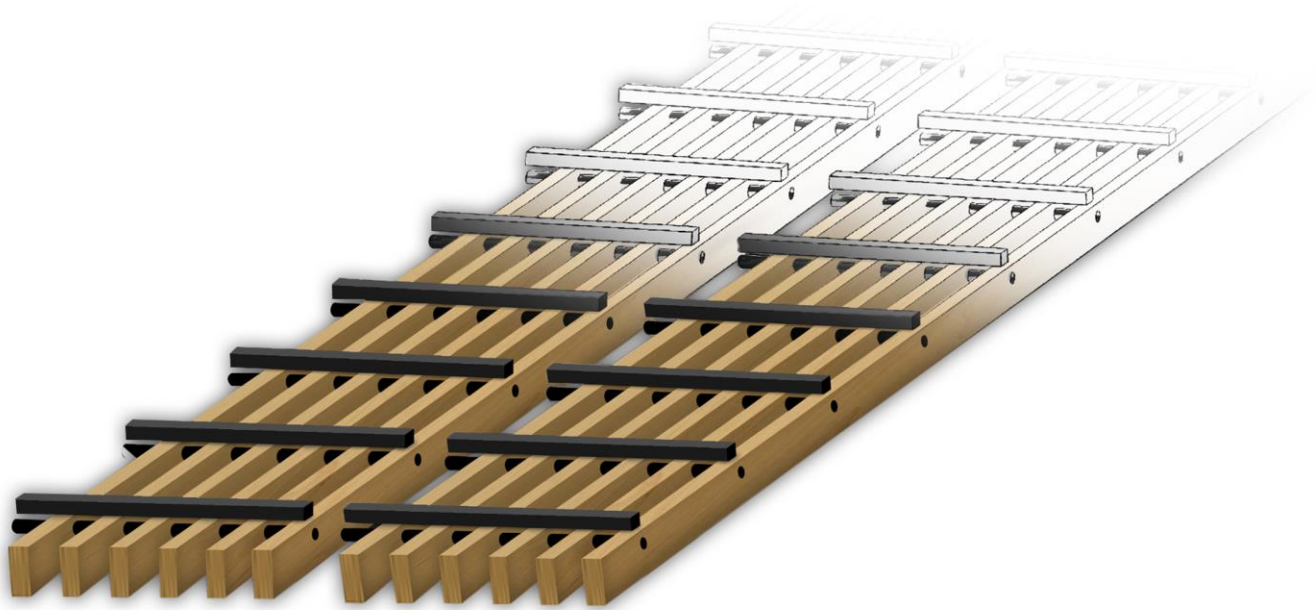
RULON INTERNATIONAL

## PANEL GRILLE DATA SHEET

SYSTEM: PANEL GRILLE | PROFILE: D,W,DW,S,B



### Overview



### SYSTEM

Rulon Panel Grilles are manufactured with aligned and spaced wood strips suspended vertically or horizontally, giving a ladder-like appearance. Panel Grilles provide a modern or traditional look and come in a variety of wood species and finish options. Standard Panel Grilles consist of individual wood strips assembled in 12" widths in lengths up to 10 feet nominal. Wood strips are drilled 12" on center, beginning 5 1/2" from each end. Dowels and/or woodbackers are positioned perpendicular to the wood strips. Panel Grilles are 1" under an even foot length, for example, 6 ft. nominal measures 5'11" in overall length. The dowels and/or woodbackers are generally finished black to be hidden from view or can be stained to match the wood strips. Panel grilles are available in solid wood or veneer.



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### Technical Data

#### VARIABLES



##### ENGINEERING CONSIDERATIONS

Panel Grilles are manufactured at Rulon's plant in St. Augustine, FL. All shop drawings and coordination details are produced by Rulon's engineering staff.



##### ACCESSIBILITY

Panel Grilles are a fully-accessible Rulon ceiling or wall system. **Dowel Clips<sup>K</sup>**, **Woodbacker Clips<sup>L</sup>**, or screws are used to suspend panels from heavy duty grid. **Primary Access Panels<sup>I</sup>** can be coordinated and cut in-field.



##### ACOUSTICS

Panel Grilles are manufactured with or without fabric backing, allowing sound to pass through the space between wood slats to the plenum space beyond. Panel grilles are acoustically transparent.



##### SUSTAINABILITY

Panel Grilles may contribute as required to the following LEED v4 credits: **MR BPD&O – Sourcing of Raw Materials**, **MR BPD&O – Material Ingredients**, **EQ Low-Emitting Materials**, **EQ Minimum Acoustic Performance**



##### FIRE PERFORMANCE

Panel Grilles can be treated to meet **Class A** requirements as per ASTM E-84. Solid wood is treated with a finish additive; veneers are applied to an FR (Fire Rated) core (typically MDF or Particleboard).



##### SEISMIC

Panel Grilles meet seismic code compliance via direct screw attachment to heavy duty grid. Local code requirements should be consulted in order to determine additional requirements.



##### INTEGRATIONS

Panel Grilles can be easily trimmed in-field to accommodate MEP integrations. Touch-up finish and edgbanding is supplied to veneer and seal cut sections. In-factory cutouts can be achieved with dedicated coordination and in conjunction with the **Integrated Lighting<sup>D</sup>** program at Rulon.



##### GENERAL COSTING

Panel Grilles are typically a reasonably priced system depending on the material and manufacturing requirements. Panel Grilles qualify as **\$\$\$\$** on the general costing scale. Local reps should be contacted in order to obtain a project-specific budget.



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### Specification

#### COMPONENTS

##### HANGERS

#12- gauge wire hangers (contractor-supplied).

##### SUSPENSION SYSTEM

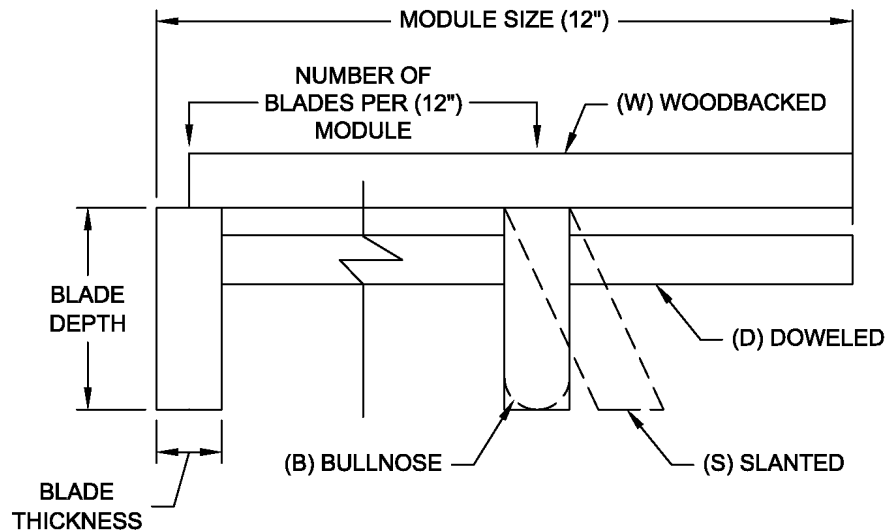
Ceiling Panels should be suspended using standard 15/16" [24 mm] heavy duty grid (contractor-supplied). Tegular or Lay-in ceilings may be suspended using standard 9/16" [14 mm] medium duty or 15/16" [24 mm] heavy duty grid (contractor-supplied).

##### ATTACHMENT CLIPS

Ceiling Panels may be suspended from grid using **Dowel Clips<sup>K</sup>** (see drawing GDCXX004) or **Woodbacker Clips<sup>L</sup>** (see drawing D-142). Panels may also be directly screwed to grid from above (see drawing GWCXX012) or below. Wall Panels may be attached by **Z-Clips<sup>E</sup>** (see drawing AXXX0013), or direct screw attached.

##### PROFILES

Panel Grille profiles are defined as PG X-XX-XX and are determined by three variables and letter designation(s): Number of blades per foot, blade thickness, and depth of the blades followed by letter designation(s) that determine assembly. The following is a detail showing profile designations and a list of standard profiles:



#### PROFILE DESIGNATIONS

<b>D</b> – Doweled	<b>W</b> – Woodbacked	<b>DW</b> – Combination	<b>S</b> – Slanted	<b>B</b> - Bullnosed
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### STANDARD PROFILES

SIZING				PROFILES						
Blade Thickness	Blade Depth			Number of Blades (per foot)						
		3	4	5	6	7	8	10		
12	3/4"	18	1 1/8"	PG 3-12-18 D W DW S B	PG 4-12-18 D W DW S B	PG 5-12-18 D W DW S B	PG 6-12-18 D W DW S B	PG 7-12-18 D W DW S B	PG 8-12-18 D W DW S B	PG 10-12-18 D W DW S B
12	3/4"	22	1 3/8"	PG 3-12-22 D W DW S B	PG 4-12-22 D W DW S B	PG 5-12-22 D W DW S B	PG 6-12-22 D W DW S B	PG 7-12-22 D W DW S B	PG 8-12-22 D W DW S B	PG 10-12-22 D W DW S B
12	3/4"	32	2"	PG 3-12-32 D W DW S B	PG 4-12-32 D W DW S B	PG 5-12-32 D W DW S B	PG 6-12-32 D W DW S B	PG 7-12-32 D W DW S B	PG 8-12-32 D W DW S B	PG 10-12-32 D W DW S B
12	3/4"	37	2 5/16"	PG 3-12-37 D W DW S B	PG 4-12-37 D W DW S B	PG 5-12-37 D W DW S B	PG 6-12-37 D W DW S B	PG 7-12-37 D W DW S B	PG 8-12-37 D W DW S B	
12	3/4"	60	3 3/4"	PG 3-12-60 D W DW S B	PG 4-12-60 D W DW S B	PG 5-12-60 D W DW S B	PG 6-12-60 D W DW S B			
12	3/4"	84	5 1/4"	PG 3-12-84 D W DW S B	PG 4-12-84 D W DW S B	PG 5-12-84 D W DW S B				
18	1 1/8"	12	3/4"	PG 3-18-12 D W DW S B	PG 4-18-12 D W DW S B	PG 5-18-12 D W DW S B	PG 6-18-12 D W DW S B	PG 7-18-12 D W DW S B		
21	1 5/16"	37	2 5/16"	PG 3-21-37 D W DW S B	PG 4-21-37 D W DW S B	PG 5-21-37 D W DW S B	PG 6-21-37 D W DW S B			
21	1 5/16"	52	3 1/4"	PG 3-21-52 D W DW S B	PG 4-21-52 D W DW S B	PG 5-21-52 D W DW S B				
21	1 5/16"	60	3 3/4"	PG 3-21-60 D W DW S B	PG 4-21-60 D W DW S B	PG 5-21-60 D W DW S B				
21	1 5/16"	84	5 1/4"	PG 3-21-84 D W DW S B	PG 4-21-84 D W DW S B	PG 5-21-84 D W DW S B				
22	1 3/8"	12	3/4"	PG 3-22-12 D W DW S B	PG 4-22-12 D W DW S B	PG 5-22-12 D W DW S B	PG 6-22-12 D W DW S B			
35	2 3/16"	12	3/4"	PG 3-35-12 D W DW S B	PG 4-35-12 D W DW S B					

Important information in regards to profile/module sizing:

- Panel Grilles with a blade thickness that exceeds blade depth appear horizontal in lieu of the typical appearance of vertical blades. These profiles are only available in (W) Woodbacked.
- Some profile designations are specific to ceilings or walls. Please contact your local sales rep for more information.
- Panel Grilles are also available in custom profile and module sizes. Please contact your local sales rep for more information.
- Panel Grilles are primarily available in solid wood, however veneer panel grilles can be used when project specifics warrant.
- Panel Grille profiles marked by the blue box are standard in veneer due to profile size. Solid wood is available for a premium.



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### MODULES

Panel Grilles are made from premium grade hardwoods and are finished to customer requirements. Standard Panel Grilles are assembled 1' [305 mm] wide - and in lengths of 2' [610 mm] to 10' [3048 mm] (nominal, available in 1' [305 mm] increments). Wood strips are manufactured from solid wood without finger joints. Wood strips are fastened together with dowels and/or woodbackers, positioned 12" [305 mm] on center, starting 5-1/2" [140 mm] from the end of the Panel Grille – depending upon length selected. Standard dowels and woodbackers are painted flat black (Optional white is available).

### PERIMETER TRIMS

Matching perimeter fascia can be supplied if specified.

### WOOD SELECTIONS

#### WOOD SPECIES

Panel Grilles may be specified in a variety of wood types. Current standard wood species are: Ash, Maple, Red Oak, White Oak, Beech, Poplar, and Cherry. **Thermally Modified**<sup>1</sup> wood species are also available.

#### TEXTURES

The standard surface texture is smooth-sawn. Faces are sanded.

### FINISHING & COMPONENTS

#### WOOD FINISHES

The standard finish is satin clear. Custom stains, opaque or semi-transparent colors are also available. All finishes are water based, low VOC-emitting, and do not contain solvents.

### SHIPPING & STORAGE

#### SHIPPING

Panel Grilles are shipped wrapped in shrink wrap packaging, with no more than two (2) Panel Grilles per bundle. Panel Grille backs are placed together to prevent marring of faces.

#### STORAGE

Panel Grilles shall be stored flat and level, in a fully enclosed space. For a minimum of seventy-two (72) hours immediately prior to ceiling installation, the packaging shall be opened and the panels shall be stored in the room in which they will be installed. The temperature and humidity of the room shall closely approximate those conditions that will exist when the building is occupied. Panels must be stored off the floor.



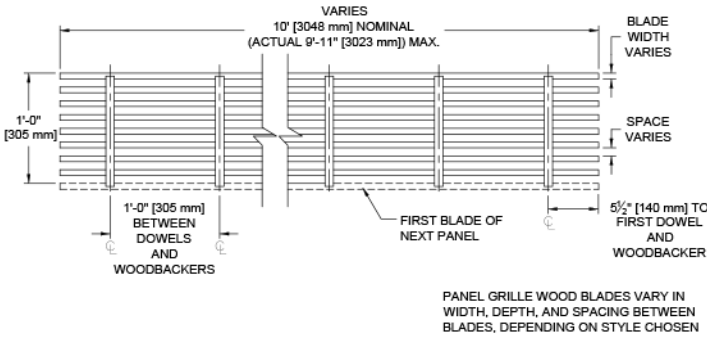
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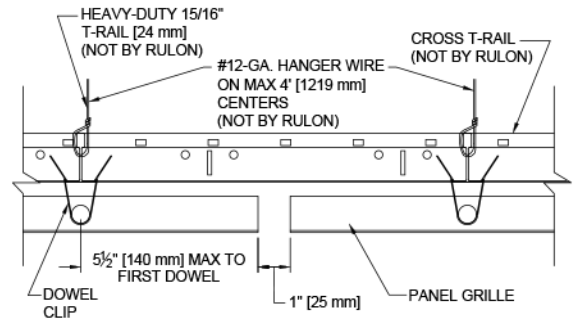
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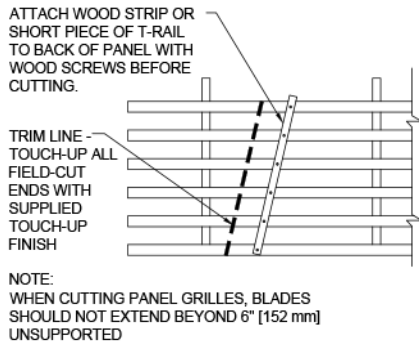
## Typical Details



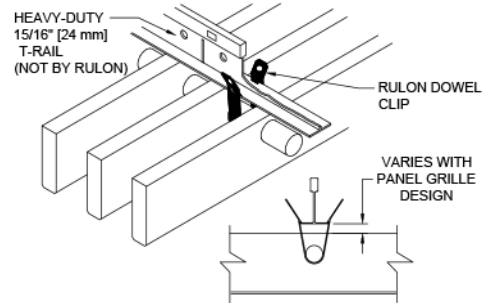
TYPICAL PANEL



END REVEAL



TRIMMING



DOWEL CLIP



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### Notes

<sup>A</sup> Not used.

<sup>B</sup> Not used.

<sup>C</sup> Not used.

<sup>D</sup> The Integrated Lighting program at Rulon is in partnership with GE Lighting and is an effort to coordinate MEPs more effectively and provide for a more streamlined process of integration. In practice, this effort begins with factory cutouts to accommodate light fixtures.

<sup>E</sup> Not used.

<sup>F</sup> Not used.

<sup>G</sup> Not used.

<sup>H</sup> Not used.

<sup>I</sup> Primary Access Panels are sections of a system that have been removed and assembled into a lift & shift panel for required-access locations.

<sup>J</sup> Thermally modified wood has been altered by a controlled process called pyrolysis which induces chemical changes to the cellular structure of the cell wall components of the wood material through heat to increase durability, shrink/swell factor, and biological resistance.

<sup>K</sup> Dowel Clips are spring clips that wrap around the dowel and attach to heavy duty grid. The clips are made of spring-steel with phosphate pre-treatment and corrosion-resistant coating.

<sup>L</sup> Woodbacker Clips are spring clips that wrap around the woodbacker and attach to heavy duty grid. The clips are made of spring-steel with phosphate pre-treatment and corrosion-resistant coating.