



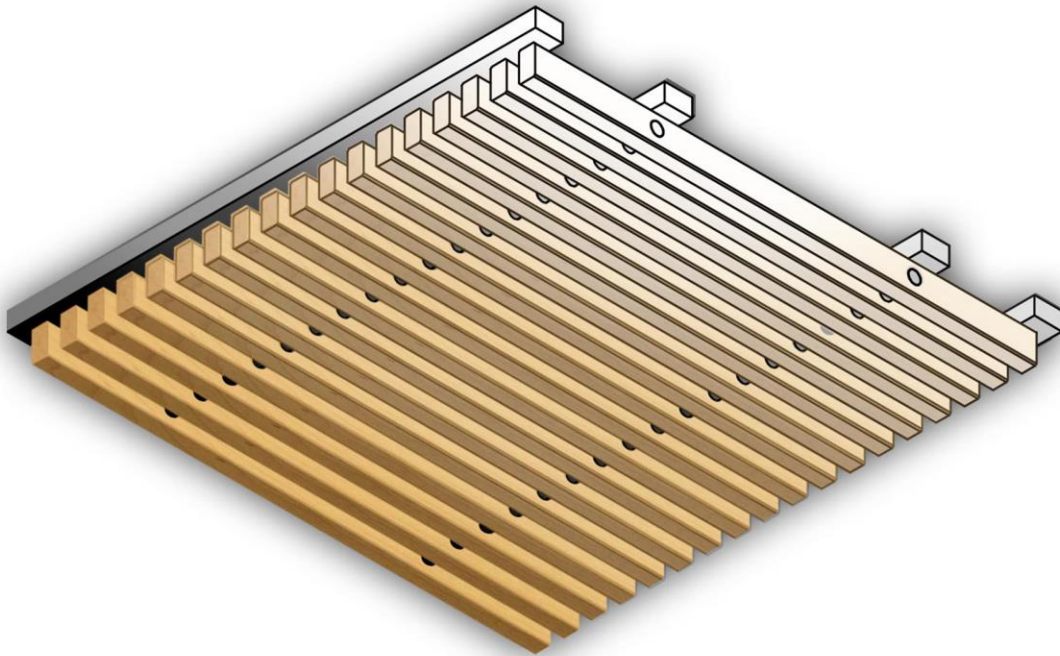
RULON INTERNATIONAL

## PANEL GRILLE DATA SHEET

SYSTEM: PANEL GRILLE | PROFILE: INTEGRILLE



### Overview



### SYSTEM

Rulon InTEGrilles are manufactured with aligned and spaced wood strips suspended vertically or horizontally, giving a ladder-like appearance. InTEGrilles provide a modern or traditional look and come in a variety of wood species and finish options. Standard InTEGrilles 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. InTEGrilles 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.



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### Technical Data

#### VARIABLES



##### ENGINEERING CONSIDERATIONS

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



##### ACCESSIBILITY

InTEGrilles are a fully-accessible Rulon ceiling system. Woodbackers are installed on the perimeter of each panel allowing for lay-in installation. Panels can be removed by the lift and shift method.



##### ACOUSTICS

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



##### SUSTAINABILITY

InTEGrilles 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

InTEGrilles 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

InTEGrilles 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

InTEGrilles can be easily trimmed in-field to accommodate MEP integrations. Touch-up finish is supplied to 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

InTEGrilles are typically a reasonably priced system depending on the material and manufacturing requirements. InTEGrilles 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

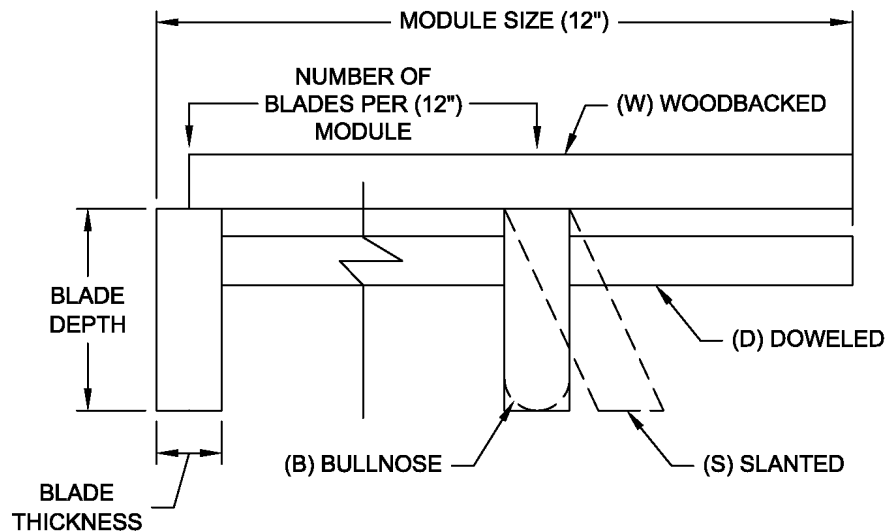
Ceiling Panels should be suspended using standard 15/16" [24 mm] heavy duty grid (contractor-supplied). Tegular or Lay-in ceilings may be suspended using standard 9/16" [14 mm] medium duty or 15/16" [24 mm] heavy duty grid (contractor-supplied).

##### ATTACHMENT

Woodbackers are installed on the perimeter of each panel allowing for lay-in installation. Panels can be removed by the lift and shift method.

##### 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 width 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"	32	2"	PG 3-21-32 D W DW S B	PG 4-21-32 D W DW S B	PG 5-21-32 D W DW S B	PG 6-21-32 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"	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:

- InTEGrilles 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.
- InTEGrilles are also available in custom profile and module sizes. Please contact your local sales rep for more information.
- InTEGrilles are primarily available in solid wood, however veneer InTEGrilles can be used when project specifics warrant.



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### MODULES

InTEGrilles are made from premium grade hardwoods and softwoods - as specified for the project - and finished to customer requirements. Standard InTEGrilles are assembled 2' [610mm] wide - and in lengths of 2' [610 mm] or 4' [1219mm]. Additionally, with 15/16" [24 mm] T-Rail, 6' [1829 mm] lengths are available. 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

Ceiling termination at a wall or soffit is accomplished using contractor-supplied L-angle.

### WOOD SELECTIONS

#### WOOD SPECIES

InTEGrilles may be specified in a variety of wood types. 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

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

#### STORAGE

InTEGrilles 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 wood blades 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.



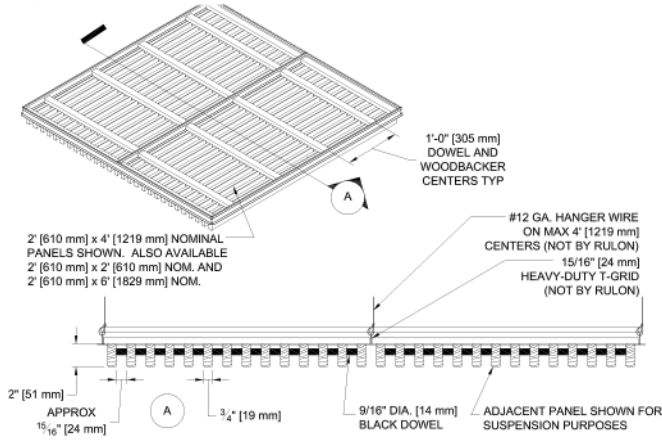
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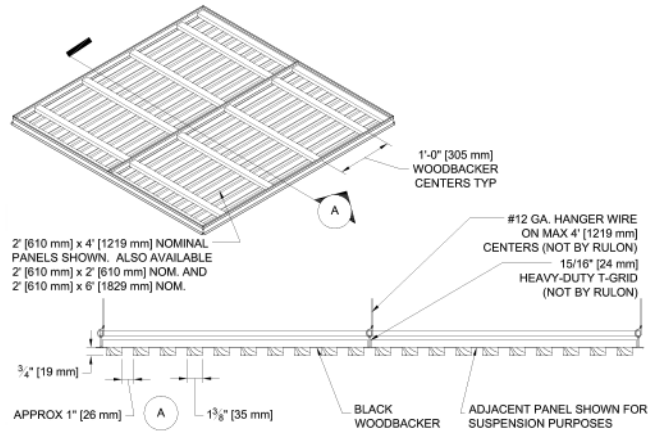
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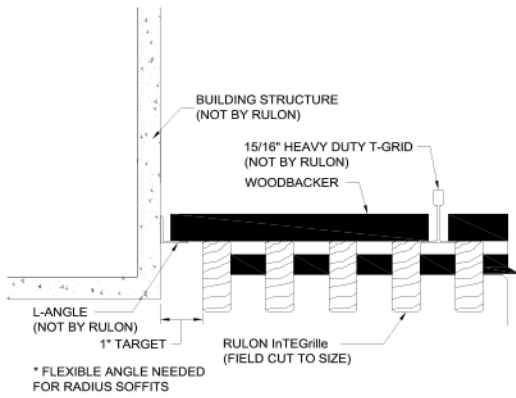
## Typical Details



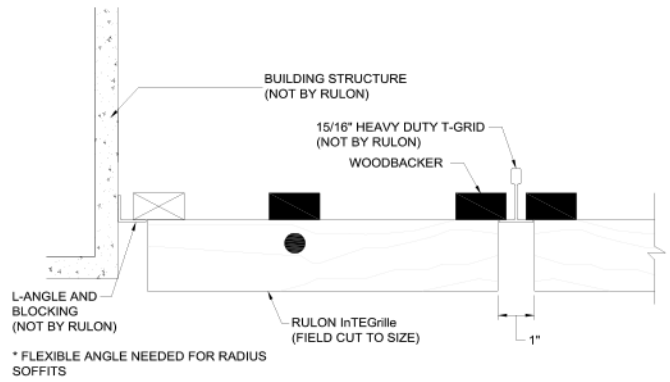
VERTICAL GRILLE MODULE



HORIZONTAL GRILLE MODULE



SIDE PERIMETER



END PERIMETER



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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> Not used.

<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> Not used.

<sup>L</sup> Not used.