



RULON INTERNATIONAL

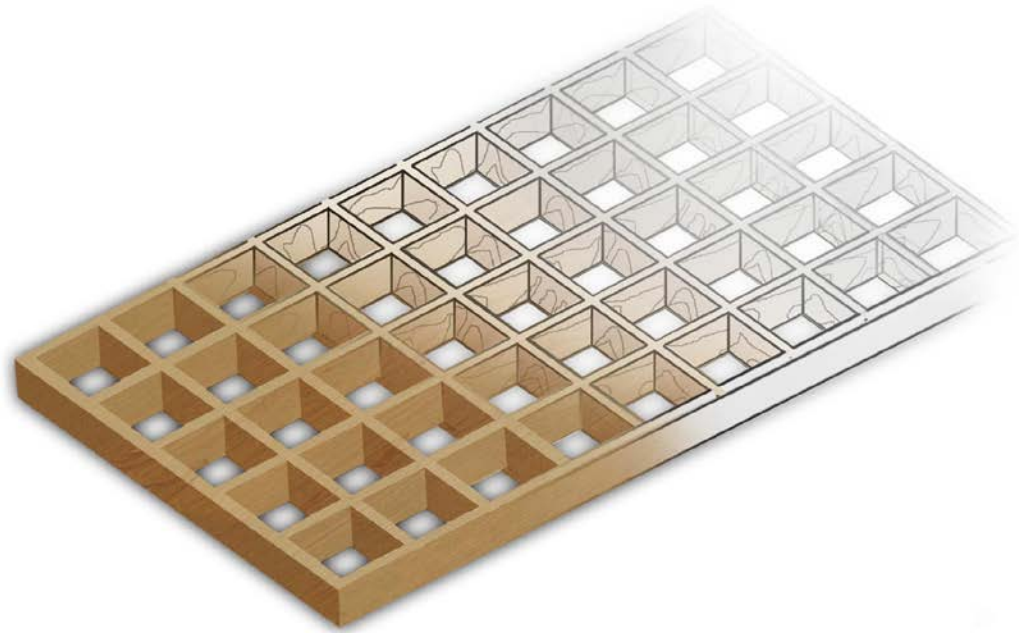
CUBES DATA SHEET

SYSTEM: CUBES

PROFILE: MODULAR



Overview



SYSTEM

Modular Cubes are cell-like assembled panels that fit into a heavy-duty grid system. Wood segments are suspended perpendicular to each other, interlocking vertically to create the cell-like structure. Modular Cube panels are supported by a heavy duty grid. The 2' x 4' panels drop into the grid system creating a panelized ceiling appearance. Standard cell sizes are available in 3", 4", 6" and 8" modules. Standard cell depths are 2", 3" and 4". Wood segments are 3/4" thick.



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Technical Data

VARIABLES



ENGINEERING CONSIDERATIONS

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



ACCESSIBILITY

Modular Cubes are a fully-accessible Rulon ceiling system. Mains and crosses are suspended using #12 Gauge hanger wire. Modular Cube panels are drop-in.



ACOUSTICS

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



SUSTAINABILITY

Modular Cubes 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

Modular Cubes 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

Modular Cubes do not meet seismic code compliance as the grid is manufactured from wood segments. Local code requirements should be consulted in order to determine available options.



INTEGRATIONS

Modular Cubes 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^D](#) program at Rulon.



GENERAL COSTING

Modular Cubes are typically an inexpensive system depending on the material and manufacturing requirements. Modular Cubes 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

Modular Cubes should be suspended using standard 15/16" [24 mm] heavy duty grid (contractor-supplied).

PROFILES

Modular Cubes are manufactured in 2'x2' or 4'x4' sections and come in standard cell sizes of 3" [76 mm], 4" [102 mm], and 6" [152 mm]. Standard wood members are 3/4" [19 mm] thick by 2" [51 mm], 3" [76 mm], or 4" [102 mm] high. Custom sizes are available. Panels may also be constructed with tegular edges to drop the face below the grid.

PERIMETER TRIMS

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

WOOD SELECTIONS

WOOD SPECIES

Modular Cubes 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**¹ 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

Modular Cubes are shipped in shrink wrap packaging, with no more than two (2) panels per bundle. Modular Cube backs are placed together to prevent marring of faces.

STORAGE

Modular Cubes 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. Cubes must be stored off the floor.



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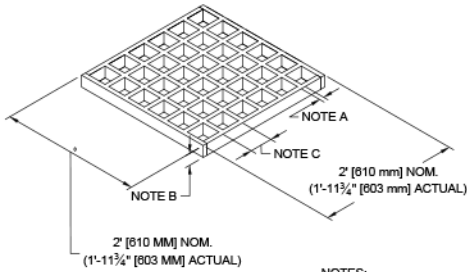
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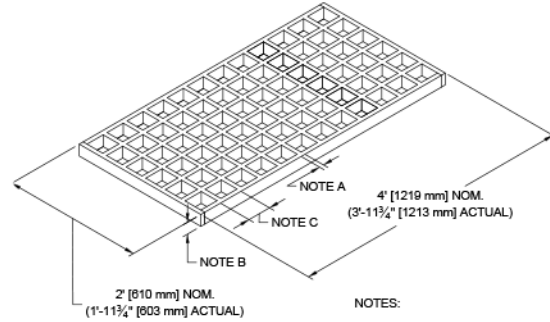
Typical Details



NOTES:

- A) STRIP THICKNESS: 3/4" [19 mm]
- B) CUBE DEPTH: 2" [51 mm], 3" [76 mm], 4" [102 mm]
- C) CELL SIZE: 3" [76 mm] X 3" [76 mm], 4" [102 mm] X 4" [102 mm], 6" [152 mm] X 6" [152 mm], 8" [203 mm] X 8" [203 mm] (NOM.)

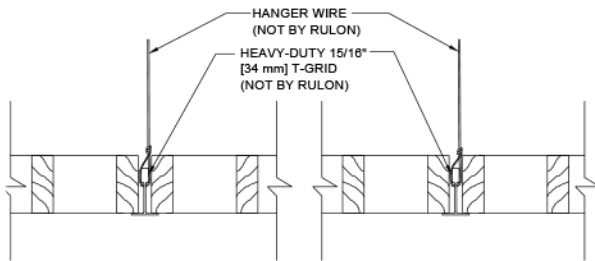
2X2 MODULE



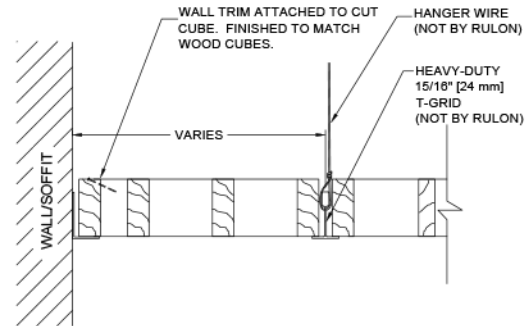
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2X4 MODULE



SUSPENSION



PERIMETER CONDITIONS



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Notes

^A Not used.

^B Not used.

^C Not used.

^D 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.

^E Not used.

^F Not used.

^G Not used.

^H Not used.

^I Not used.

^J 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.

^K Not used.

^L Not used.