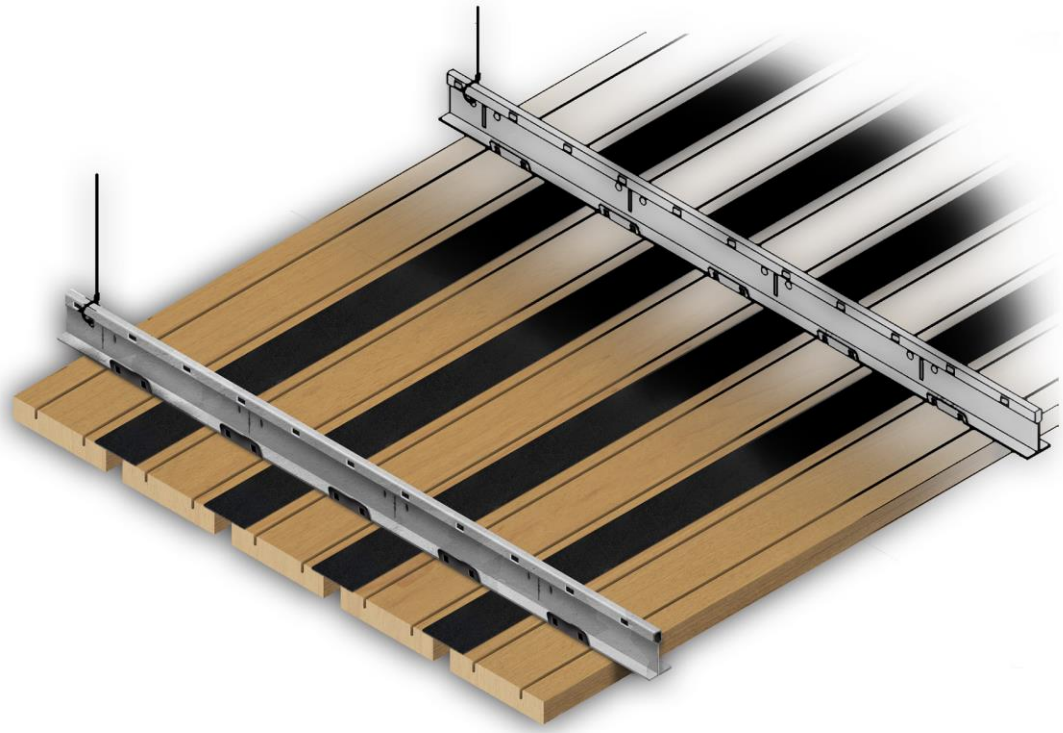
RULON INTERNATIONAL

LINEAR DATA SHEET

SYSTEM: LINEAR | PROFILE: OPEN

Overview



SYSTEM

Rulon Linear Open wood ceilings are designed with wood boards suspended parallel to the floor and reveals separating each wood board. The system utilizes the **Rulon Cliprail**[H] system eliminating heavy metal framing and support typically required to suspend nailed-in-place boards. Wood boards are installed continuously with tongue & groove ends to create a continuous, monolithic appearance. Standard lengths are 3’ - 10’. Linear Open is available only in solid wood.

RULON INTERNATIONAL

LINEAR DATA SHEET

SYSTEM: LINEAR | PROFILE: OPEN

Technical Data

VARIABLES

ENGINEERING CONSIDERATIONS

Linear Open is manufactured at Rulon's plant in St. Augustine, FL. The **Linear Clip**[H] is a proprietary attachment method utilized by Rulon, and is simple for installers. All shop drawings and coordination details are produced by Rulon's engineering staff.

ACCESSIBILITY

Clips are mechanically fastened to both wood boards and heavy duty grid; removing wood boards would damage them. **Primary Access Panels**[I] can be coordinated with MEP locations and cut in-field. Limited access is available.

ACOUSTICS

Standard Linear Open is manufactured with fiber felt spacers between wood boards allowing sound to pass through the reveals to the plenum space beyond. Linear Open has been tested in accordance with ASTM C-423 and achieves an **NRC-0.65**.

SUSTAINABILITY

Linear Open 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

Linear Open can be treated to meet **Class A** requirements as per ASTM E-84. Solid wood is treated with a finish additive.

SEISMIC

Linear Open 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

Linear Open 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

Linear Open is typically one of the most economical systems depending on the material and manufacturing requirements. Linear Open qualifies as **$**$$$ on the general costing scale. Local reps should be contacted in order to obtain a project-specific budget.

RULON INTERNATIONAL

LINEAR DATA SHEET

SYSTEM: LINEAR | PROFILE: OPEN

Specification

COMPONENTS

HANGERS

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

SUSPENSION & ATTACHMENT

Rulon cliprails are made from galvanized steel and are 12 feet long. They are factory-fabricated with **Linear Clips**[H] assembled onto standard heavy-duty 15/16" grid. The clips are made of spring-steel, with phosphate pretreatment and a corrosion-resistant coating. The assembled cliprails are provided by Rulon as part of the system.

PROFILES

Wood boards are 3/4" [19 mm] thick, with widths determined by the module selected. Standard board widths/modules are as follows:

- 3-3/4" [95 mm] board with 1/4" [6mm] reveal for 4" [102 mm] module
- 3-3/4" [95 mm] board with 3/4" [19mm] reveal for 4-1/2" [114 mm] module
- 5-1/4" [133 mm] board with 3/4" [19mm] reveal for 6" [152 mm] module

PERIMETER TRIMS

Ceiling termination at a wall or soffit is accomplished using Rulon perimeter trim #101 (see drawing LOCXF004). The standard perimeter for floating ceilings is Linear boards, turned 90° and pin-nailed into ceiling boards.

CLAMPING TOOL

A clamping tool can be used for rapid and easy assembly of wood boards to the cliprails (see drawing LOCXF002).

WOOD SELECTIONS

WOOD SPECIES

Rulon Linear Open may be specified in a variety of wood species. Current standard wood species are: Ash, Maple, Red Oak, White Oak, Beech, Poplar, and Cherry. **Thermally Modified**[J] 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.

SPACERS

Fiber felt is factory-applied to one edge of each wood board, offering a closed plenum for more efficient air movement and dust containment. The fiber felt spacer provides a fire retardant closure and is black. Black ABS

spacers, 1/8" thick, may be substituted for the fiber felt as required (see drawing LOCXH01). The ABS profile is commonly referred to as a Linear Open with a hardboard spacer.

SHIPPING & STORAGE

SHIPPING

Wood boards are shipped in 8-piece bundles, in shrink wrap packaging. Finished surfaces face one another to prevent marring.

STORAGE

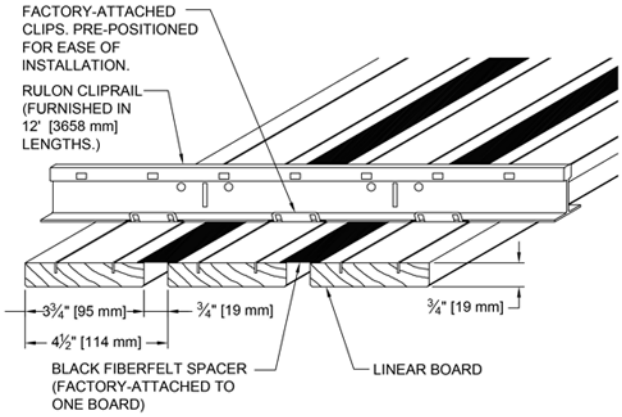
Linear Open shall be stored flat and level, in a fully enclosed space. For a minimum of seventy-two (72) hours immediately prior to ceiling installation, the packaging shall be opened and the wood boards shall be stored in the room in which they will be installed. The temperature and humidity of the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

RULON INTERNATIONAL

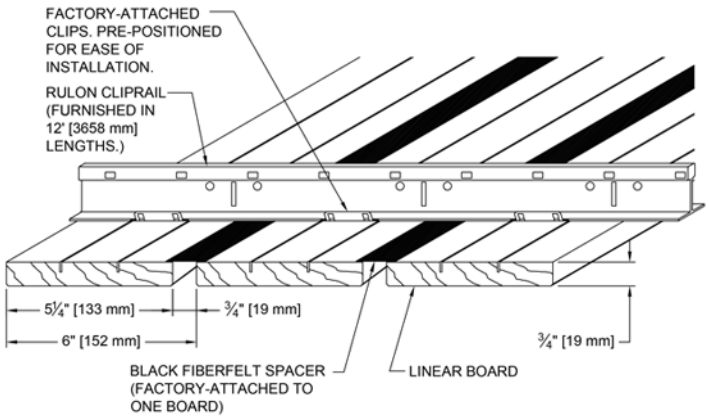
LINEAR DATA SHEET

SYSTEM: LINEAR | PROFILE: OPEN

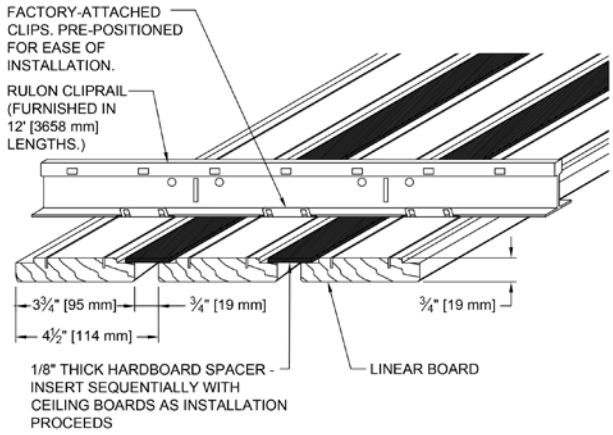
Typical Details



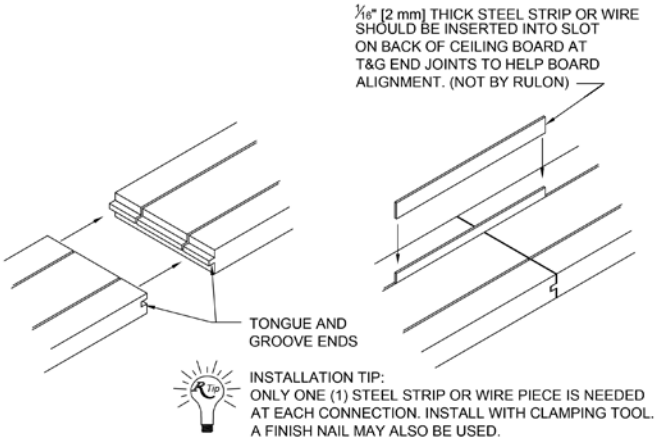
4 ½" MODULE



6" MODULE



ABS MODULE



ASSEMBLY

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] The Linear Clip is a mechanical fastener that utilizes barbed inserts pressed into grooves in the backs of the wood boards creating positive attachment. The clips are made of spring-steel with phosphate pre-treatment and corrosion-resistant coating.

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

[J] Thermally modified wood has been altered by a controlled process called pyrolosis 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.