



RULON INTERNATIONAL

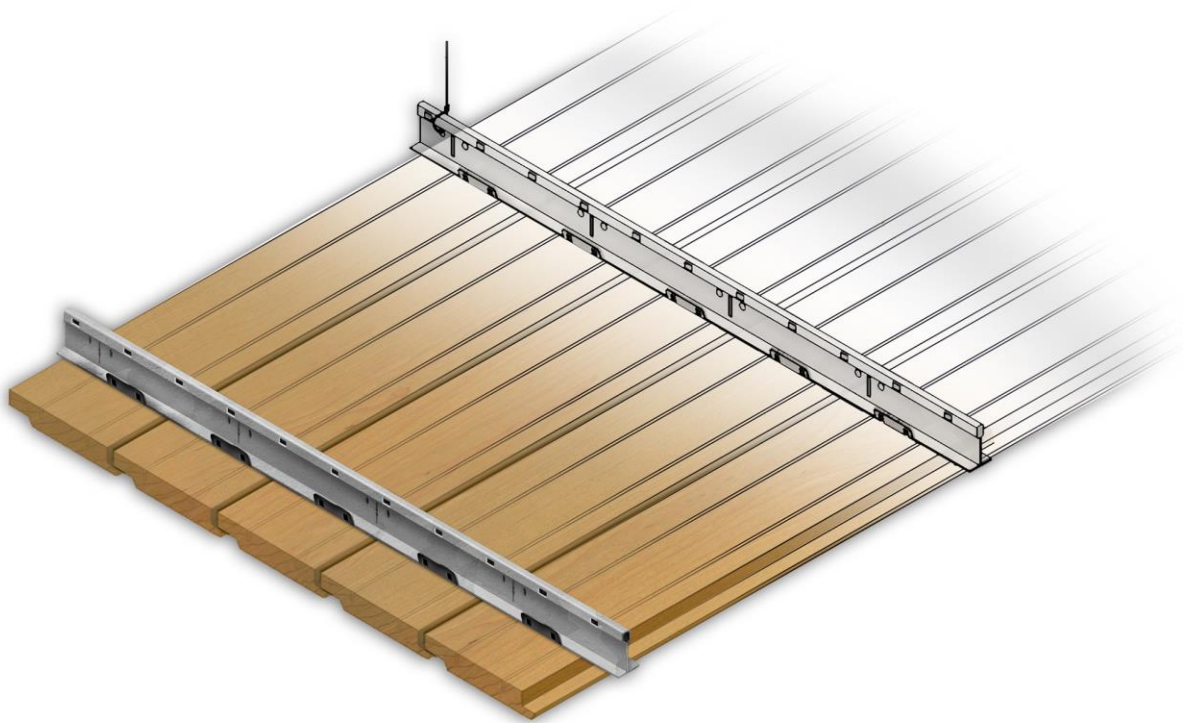
LINEAR DATA SHEET

SYSTEM: LINEAR

PROFILE: CLOSED



Overview



SYSTEM

Rulon Linear Closed wood ceilings are designed with wood boards suspended parallel to the floor with lap joints and produces a 1/4" overlap between boards. The closed style gives an all-wood shiplap appearance. The system utilizes the Rulon Cliprail 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 Closed is available in only solid wood.



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Technical Data

VARIABLES



ENGINEERING CONSIDERATIONS

Linear Closed 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 Panels¹** can be coordinated and cut in-field. Limited access is available.



ACOUSTICS

Linear Closed is manufactured with lap joints between wood boards eliminating reveals to the plenum space beyond. Linear Closed systems provide a reflective surface.



SUSTAINABILITY

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



SEISMIC

Linear Closed 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 Closed 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 Closed is typically the one of the most economical systems depending on the material and manufacturing requirements and qualifies 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 & 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 4-1/4" [95 mm] face resulting in a 4" [102 mm] module. Sides of the wood boards are machined with male/female lap joints.

PERIMETER TRIMS

Ceiling termination at a wall or soffit is accomplished using Rulon perimeter trim #101 (see drawing LCC4N004). 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 LCC4N002).

WOOD SELECTIONS

WOOD SPECIES

Rulon Linear Closed may be specified in a variety of solid wood species. Current standard wood species are: Ash, Maple, Red Oak, White Oak, Beech, Poplar, and Cherry. **Thermally Modified¹** 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

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



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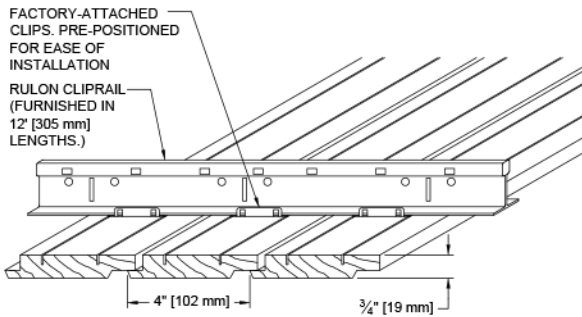
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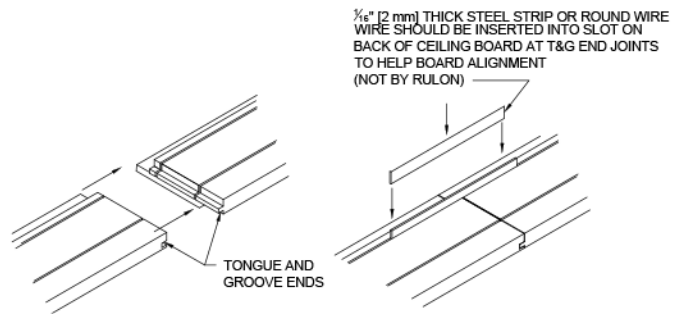
STORAGE

Linear Closed 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.

Typical Details



4" MODULE



INSTALLATION TIP: ONLY ONE (1) STEEL STRIP OR WIRE PIECE IS NEEDED AT EACH CONNECTION. INSTALL WITH CLAMPING TOOL. A FINISH NAIL MAY ALSO BE USED.

ASSEMBLY



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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 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 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.