



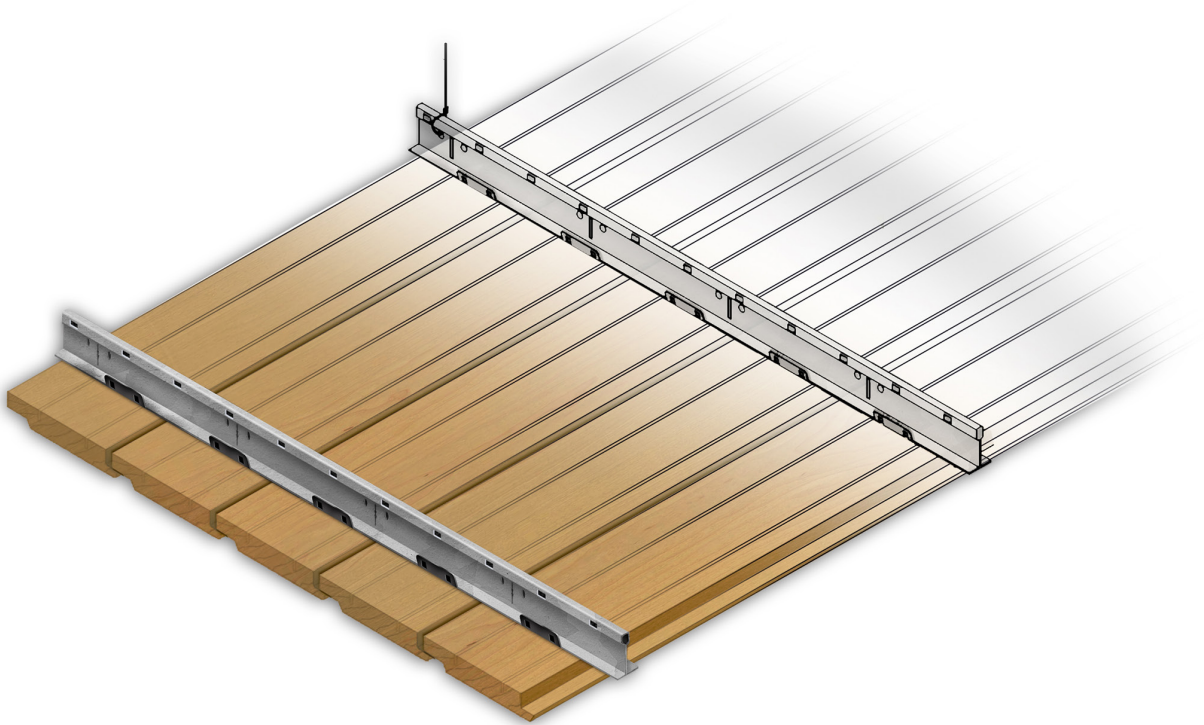
RULON
INTERNATIONAL

LINEAR DATA SHEET

System: Linear | Style: 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. Linear Closed utilizes the [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. Random length boards are furnished between 6' - 12'. Linear Closed is available only in solid wood.



TECHICAL DATA



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 factory-attached to heavy-duty grid and are mechanically fastened to wood boards by contractor. Please note, 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

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 meets 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 and edgebanding is supplied to veneer and seal cut edges. 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 one of the most economical systems depending on the material and manufacturing requirements. Linear Closed qualifies as \$\$\$\$ on the general costing scale. Local reps should be contacted in order to obtain a project-specific budget.



SPECIFICATION

COMPONENTS

HANGERS

#12- gauge wire hangers, braided wire, or aircraft cable (contractor-supplied).

SUSPENSION SYSTEM

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.

ATTACHMENT

Linear Closed boards install end-to-end using a tongue & groove joint followed by compression into a friction-fit clip. A clamping tool is to be used for rapid and easy assembly of wood boards to the cliprails (see drawing LOCXF002).

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.

CONDITIONS

Ceiling termination at a wall or soffit is accomplished using various trims (for example, see drawing D-120).

WOOD SELECTIONS

WOOD SPECIES

Rulon Linear Closed 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 Modified²](#) wood species are also available.

TEXTURES

Standard surface texture is smooth-sawn. Faces are sanded.

FINISHES

WOOD FINISHES

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.



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SPECIFICATION

SHIPPING & STORAGE

SHIPPING

Linear Closed are shipped on skids in shrink wrap packaging. Finished surfaces are facing one another with slip sheets between to prevent marring.

STORAGE

Linear Closed shall be stored flat and level, in a fully enclosed space away from sunlight or moisture. 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.

COORDINATION

TEMPERATURE & HUMIDITY

System shall be installed only when the temperature and humidity closely approximate the interior conditions that will exist when the building is occupied. Heating and cooling systems shall be operating before, during, and after installation, with the humidity of the interior spaces maintained between 25 and 55 percent, and a temperature between 60 to 90 degrees F.



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NOTES

- ^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.
- ^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.