



RULON INTERNATIONAL

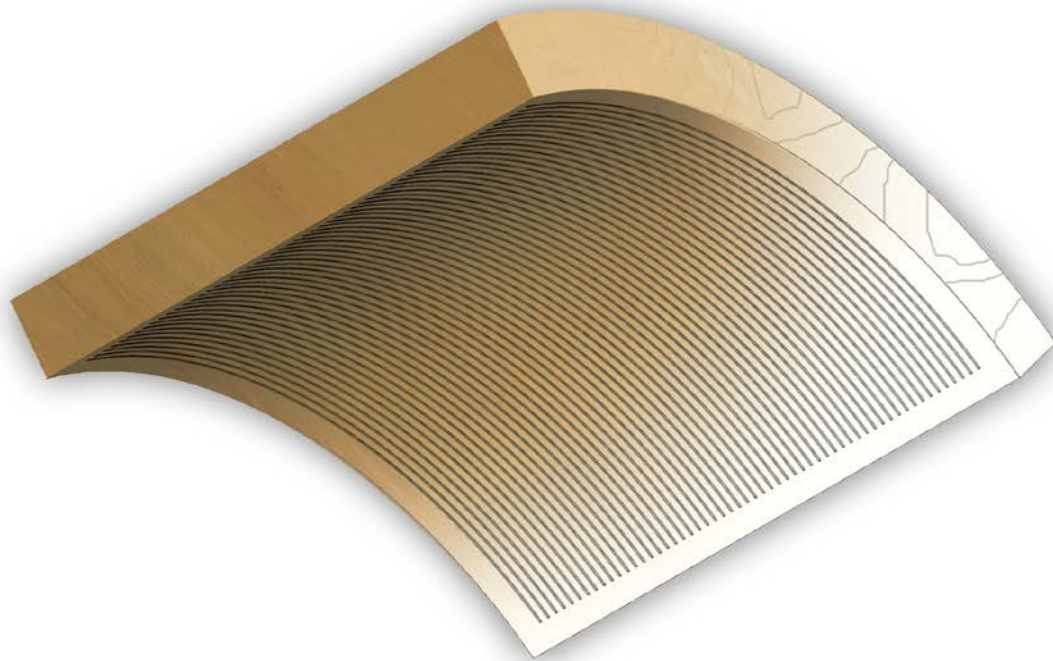
CURVATONE DATA SHEET

SYSTEM: CURVATONE

PROFILE: ANY



Overview



SYSTEM

Curvatone acoustical wood ceiling and wall panels combine the warmth and beauty of wood with effective acoustical performance and the addition of curvature. Assembled with an acoustic nonwoven backer, these panels provide excellent sound attenuation and are typically found in high-occupancy areas. Curvatone panels are typically designed with u-grooves in the face, but can also be manufactured with perforations, v-grooves, or routed patterns. Curvatone is only available in veneer.



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Technical Data

VARIABLES



ENGINEERING CONSIDERATIONS

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



ACCESSIBILITY

Curvatone is a fully-accessible Rulon ceiling system unless direct-screwed to heavy duty grid. Mains and cross ribs are used to suspended panels using #12 Gauge hanger wire. Curvatone can also be suspended below by **C-Hangers^A** or **Torsion Springs & Saddle Clips^B**. Wall panels are attached with **Z-Clips^E**.



ACOUSTICS

Curvatone is manufactured with an **Acoustic Nonwoven Backer^C**, a sound-absorbing fabric adhered to the back of the panel. The acoustical performance of Curvatone is dependent on project design, application, mounting method, and additional sound absorbent material. For general reference, please see the open area calculation table in the following section.



SUSTAINABILITY

Curvatone 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

Curvatone can be treated to meet **Class A** requirements as per ASTM E-84. Veneers are applied to an FR (Fire Rated) core (typically MDF or Particleboard).



SEISMIC

Curvatone 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

Curvatone can be trimmed in-field to accommodate MEP integrations. Touch-up finish and edgebanding is supplied to veneer and 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

Curvatone is typically a high-priced system depending on the material and manufacturing requirements. Curvatone 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 SYSTEM

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

ATTACHMENT

Curvatone can be suspended from grid using **C-Hangers^A** (see drawing V0000004) or **Torsion Springs & Saddle Clips^B** (see drawing V0000003). Panels may also be suspended using #12 Gauge hanger wire attached to ribs in the back of the panels (see drawing V0000001). Wall Panels may be attached by **Z-Clips^E** (see drawing D-108).

SIZES

Panels are made from premium grade veneers adhered to a wood substrate that has been **Kerfed^G** to allow the panels to be formed into specific radii (panel radius minimum is 18" [457 mm]). Face veneer is finished to customer requirements. Panels may be manufactured in sizes up to 4' [1219 mm] by 10' [3048 mm]. Grain direction typically follows the length of the panel.

FACE PROFILES

Curvatone is manufactured with a face profile to match project requirements. The most common profile is manufactured with a 2mm (0.079") wide 'u-shaped' groove on 10mm (0.394") centers. The substrate may be **Back-Bored^F** to allow for increased open area and greater sound attenuation while minimizing visible face machining (see drawing A9AS0010). Other face profile options include perforations (see Aluratone 700), v-grooves (see Aluratone 930/940/950), or routed patterns (see Aluratone 100).

OPEN AREA & SOUND ATTENUATION

Acoustical performance of Curvatone is dependent on the project design, application, mounting method and if additional sound absorbent material incorporated within the system. For general reference, please see the open area calculation table below. Consult Rulon's technical department for specific data based on project requirements.

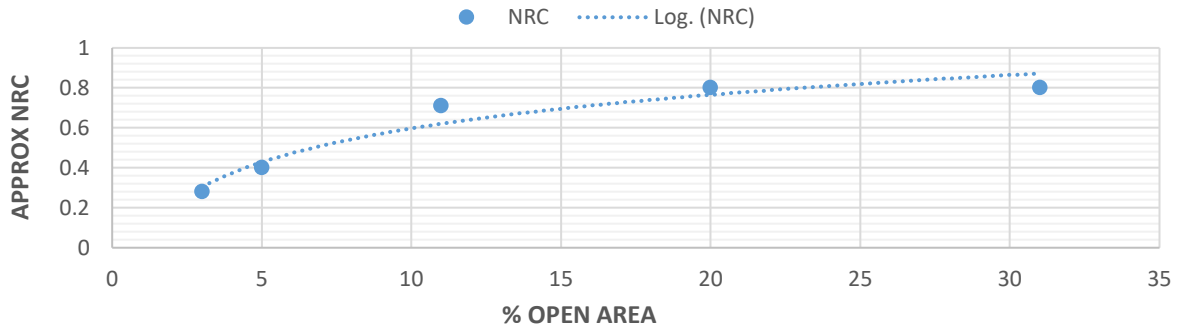


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PERIMETER TRIMS

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

WOOD SELECTIONS

WOOD SPECIES

Curvatone may be specified in a variety of veneer species. Current standard wood species are: Ash, Maple, Red Oak, White Oak, Beech, Poplar, and Cherry. Premium veneers and non-wood laminates are 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

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

STORAGE

Curvatone 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 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.



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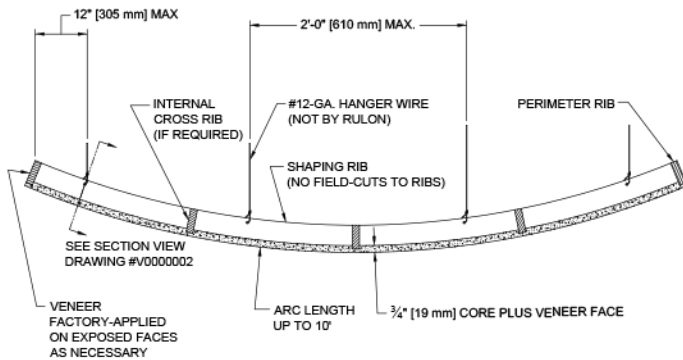
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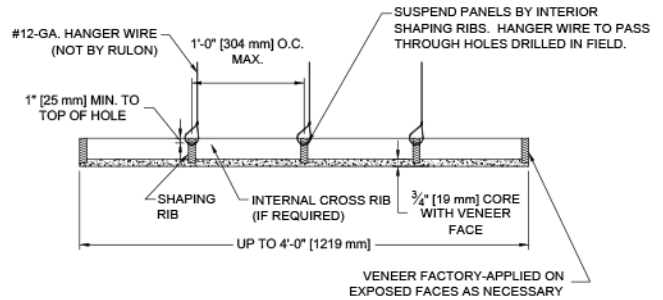
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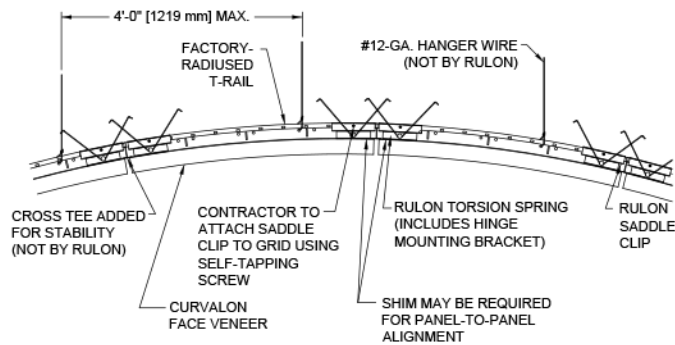
Typical Details



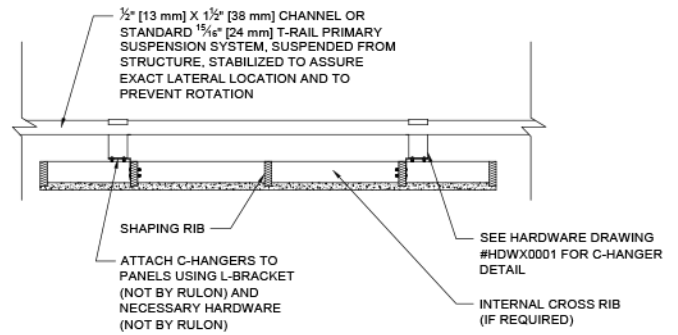
PROFILE



SECTION



TORSION SPRING



C-HANGER



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Notes

- ^A C-Hangers are suspension hangers that are direct-screwed to the panel and hang over the heavy duty-grid. The clips are made of spring-steel with phosphate pre-treatment and corrosion-resistant coating.
- ^B Torsion Springs and Saddle Clips are two parts of a suspension system in which the torsion spring is direct-screwed to the panel and compressed to attach to the saddle clip that is fitted over the heavy duty-grid. The clips are made of spring-steel with phosphate pre-treatment and corrosion-resistant coating.
- ^C Acoustic Nonwoven Backers are thin, sound-absorbing fabrics that can be applied to a substrate in order to increase sound attenuation.
- ^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 Z-Clips are male/female aluminum attachment clips, similar to a French cleat but with a thinner profile, used to hang wood wall panels on furring strips.
- ^F Back-boring is a machining process by which a large diameter hole is bored from the back of a panel (typically 50%-75% of the substrate depth) concentric with a smaller diameter hole, groove, or other machined pattern on the front of a panel. This process allows for increased open area and greater sound attenuation while minimizing visible machining on the face of a panel.
- ^G Kerfing is the process of cutting multiple grooves or notches (called kerfs or relief cuts) the length or width of a board in order to provide relief and allow the panel to flex.
- ^H Not used.
- ^I Not used.
- ^J Not used.
- ^K Not used.
- ^L Not used.