

CURVALON DATA SHEET

SYSTEM: CURVALON | STYLE: CONCAVE OR CONVEX



Custom-shaped veneered panels, manufactured from a flexible core and capable of meeting the design needs of any curved application.



Curvalon is a fully customizable, custom-curved panel application shaped to meet the design aesthetic of any space with a multi-step manufacturing approach to achieving concave, convex, or compound curved applications. Ample options are available for layout, attachment, and perimeter conditions. Curvalon can be manufactured into custom sizes up to 48" x 120". Rigid panels are supplied with shaping ribs and edge returns while flexible panels are kerfed for in-field flexibility.

Curvalon is only available in veneer.



DESIGN

Curvalon is a fully-accessible ceiling or wall system unless direct-screw attached. Panels are suspended from grid by hanger wire or aircraft cable, [C-Hangers^A](#), [Torsion Springs & Saddle Clips^B](#), or direct screw attachment. Wall panels are attached with [Z-Clips^E](#). Attachment methods may be limited by shape of panel.



ACOUSTICS

Curvalon can be installed with or without a p-gasket or fabric infill at reveals, allowing sound passage to the plenum. Curvalon is considered **acoustically reflective**.



FIRE PERFORMANCE

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



SUSTAINABILITY

Curvalon contributes to sustainability initiatives like **WELL** and **LEED** through FSC compliance, NAF cores, HPDs, EPDs, and Indoor Advantage Gold certification.



SEISMIC

Curvalon may meet code compliance via **direct screw attachment** or [Torsion Springs & Saddle Clips^B](#). Local code should be consulted for additional seismic requirements.



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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, channel, or directly from #12- gauge wire hangers (contractor-supplied). Mains for 15/16" [24 mm] heavy duty grid shall be a max of 2' [610 mm] on center.

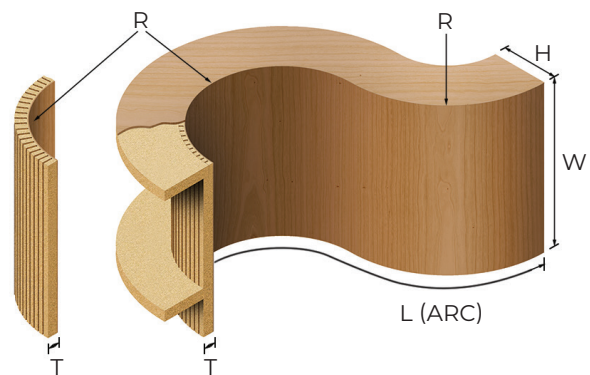
PANEL PROFILES & DIMENSIONS

Curvalon can be customized to meet project requirements. The following details provide dimensional and layout-specific parameters:

SYSTEM	FLEXIBLE	RIGID
R (MIN RADIUS)	120"	18"
H (RETURN HEIGHT) ¹	3/4"	3"
T (FACE THICKNESS)	3/4"	
W (MAX WIDTH)	48"	
L (MAX ARC LENGTH) ²	120"	

¹**Height** - Custom return heights available for >3"

²**Length** - Length of the arc, not overall panel length



PANEL CONSTRUCTION

Panels are made from premium grade veneers adhered to a wood substrate that has been [Kerfed[®]](#) to allow the panels to be formed into specific radii (panel radius minimum is 18" [457 mm] for rigid panels and 120" [3048 mm] for flexible panels). Face veneer is finished to customer requirements. Panels may be manufactured in sizes up to 4' [1219mm] by 10' [3048mm] (panel face dimension, not footprint). Grain and groove direction typically follows the length of the panel.

INSTALLATION

ATTACHMENT

Ceiling panels may be suspended using #12 Gauge hanger wire, braided wire, or aircraft cable attached to ribs in the back of the panels (see drawing V0000001). Panels may also be suspended from grid or channel using [C-Hangers^A](#) for Lift & Shift access (see drawing V0000004) or [Torsion Springs & Saddle Clips^B](#) for Downward Access (see drawing V0000003). Wall Panels may be attached with [Z-Clips^E](#) (see drawing D-108).

SPECIAL CONDITIONS

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

SPECIFICATION

WOOD SELECTIONS

WOOD SPECIES

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

TEXTURES

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

FINISHES

WOOD FINISHES

Standard finishes include 20-sheen clear (satin) and 5-sheen clear (matte). A full range of standard colors can be found at rulonco.com/colorselections. 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

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

STORAGE

Curvalon 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.

SPECIFICATION

NOTES

SPECIAL NOTES

- ^A C-Hangers are suspension hangers that are direct-screwed to the panel and hang over the heavy duty-grid. The hangers 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. Springs and clips are made of spring-steel with phosphate pre-treatment and corrosion-resistant coating.
- ^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.
- ^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.

TYPICAL DETAILS

