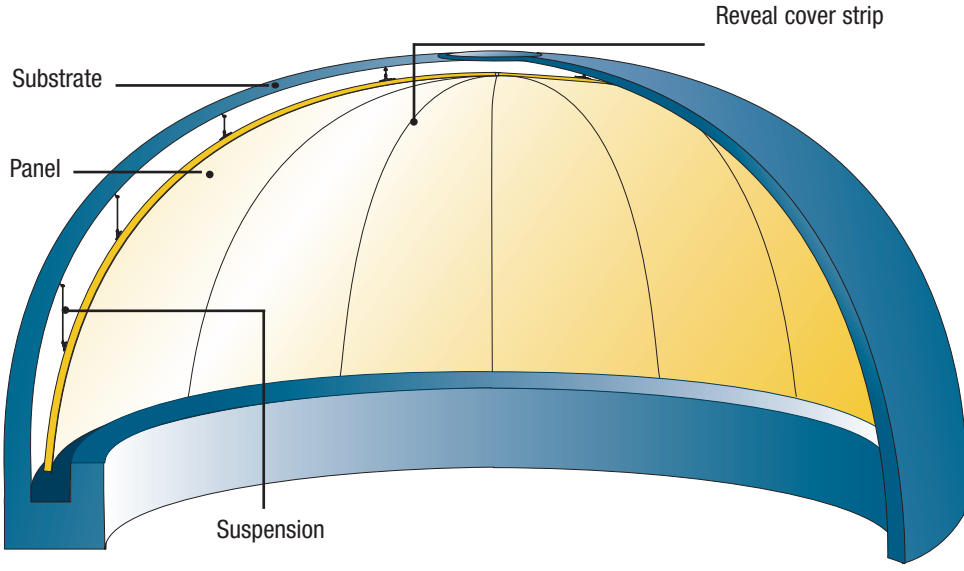


Ceilings

Custom Curved DOMES



Description

Decoustics compound curved panels provide architects and designers with domed ceilings that have an acoustical solution to the problems of sound focussing and reflection normally associated with traditional hard surface finishes such as gypsum board, plaster, glass reinforced gypsum (GRG), fiber reinforced polyester (FRP), or wood. Dome shaped panels consist of compound, three-dimensional factory pre-curved units using one radius in all directions throughout the curve. Domed ceilings are made up of multiple, precisely engineered panel sections.

Any one of several mounting methods can be employed depending on plenum access requirements, available substrate, plenum clearance, and panel joint preference e.g. closed reveal or open reveal only.

Panels

All Decoustics panels are custom fabricated and offered in a variety of types, sizes, thicknesses and finishes.

Limitations

Minimum radius is 10'-0" (3050 mm). Panel sizes are limited depending on radius of dome.

Design Considerations

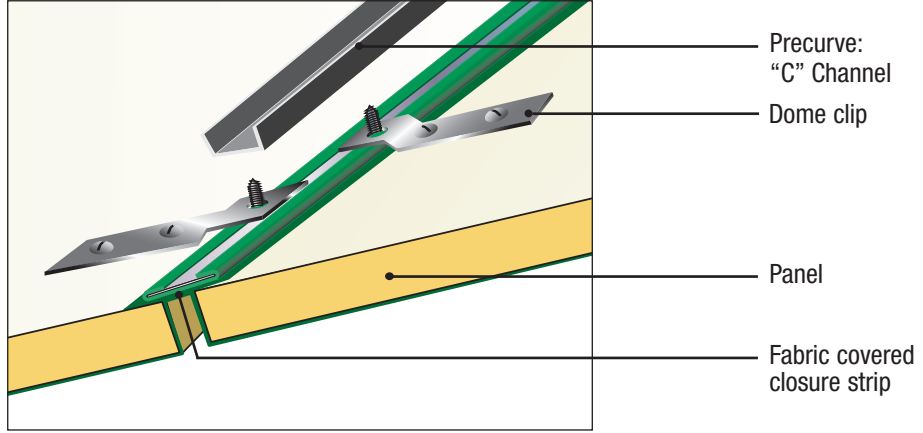
The panels alone can form the dome without the need for a domed substrate. If, however, a domed substrate already exists, panels can be directly mounted to it.

Dome shaped panels are only available with a fabric finish.

Decoustics recommends 2" (50 mm) thick panels to be used in all dome areas.

Providing the minimum radius requirement is met, it is possible to manufacture Dome Shaped panels consisting of more than one radius, e.g. elliptical.

Depending on panel radius and thickness, exposed darting along edges may result with some fabric finishes which may or may not be prominent. However, darting is minimized when using Decoustics standard fabrics. Contact Decoustics for specific information.



REVEAL EDGE OPTIONS

...cont'd

Ceilings

Custom Curved DOMES

Although rare and depending on panel radius, finish, and lighting conditions, some manufacturing "ridge" lines may be visible which are caused primarily by inherent density variations in the core material and may be unavoidable. Consult Decoustics for best finishes to use with specific lighting.

Maintenance

Refer to appropriate Decoustics "Cleaning and Maintenance Instructions" for any specific finish.

Related Data

Refer to specific ceiling system literature, e.g. Direct Mount, etc. for detailed data such as acoustical test data, ceiling system details including perimeter trim options (ensure trim is compatible with pre-curved panels), and similar information.

Mounting Methods

Pre-curved Dome Shape panels can be installed using the following Decoustics ceiling systems:

1. Direct Mount (progressively accessible, with closed reveal or open reveal panel joints).
2. Direct To Suspended Frame/Grid (individually or progressively accessible with closed reveal or open reveal panel joints).
3. Suspended Reveal (progressively accessible, with closed reveal or open reveal panel joints).

Note: Field cutting of panels is possible but not recommended.

FINISH	EDGE OPTIONS	PANEL SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT
*Fabric	Resin: square edge.	Fabric: Up to 48" x 48" (1220 mm x 1220 mm) or 60" x 30" (1525 mm x 762 mm)	Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side. Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) core. Fabric corners are fully tailored (no exposed darting). A 1 mil clear vapor retarder is adhered to panel back.	2" (50 mm)	1.05	1.75 psf (8.55 kg/m ²)

*Consult factory when selecting / specifying finish

Note: The information provided in this Data Sheet is accurate to the best of our knowledge at the time of printing. However, we reserve the right to make changes when necessary without further notification. Suggested applications may need to be modified to conform with local building codes and conditions. We cannot accept responsibility for products that are not used, or installed, to our specifications. Please refer to our website for most current data.

Note: Only handle panels wearing clean, lightweight, white gloves during installation. Follow manufacturer's printed instructions for installation as well as field cutting of panels.