



### Mounting Methods

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

1. Span (upward accessible, with 1/8" defined, closed reveal or open reveal panel joints).
2. Direct Mount (progressively accessible, with defined, closed reveal or open reveal panel joints).
3. Direct To Suspended Frame/Grid (progressively accessible with defined, closed reveal or open reveal panel joints).

# Ceilings

## Custom Curved VAULT

### Description

Decoustics acoustically absorptive panels provide architects and designers with vaulted ceilings without the problems of sound focusing and reflection normally associated with traditional hard surface finishes such as gypsum board, plaster, glass reinforced gypsum (GRG), fiber reinforced polyester (FRP), or wood.

Vault Shaped panels consist of factory pre-curved units having one radius throughout the curve.

A single panel can span the vault or multiple panels may be used depending on vault width and panel size limitations.

A variety of mounting methods can be employed depending on plenum access requirements, available substrate, plenum clearance, and panel joint preference. e.g. defined, closed reveal or open reveal.

### Panels

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

### Limitations

Minimum radius is currently 24" (610 mm). Contact Decoustics regarding availability of smaller radii.

### Design Considerations

Metal edges are preferred for consistent joint detail and alignment. The panels alone can form the vault without the need for a vaulted substrate. If, however, a vaulted substrate already exists, panels can be directly mounted to it.

Depending on panel radius and thickness, exposed darting along curved edges may result with some fabric finishes which may or may not be prominent. Darting will always be visible with vinyl finishes.

Contact Decoustics for specific information. Under certain lighting conditions, depending on panel radius and finish, manufacturing "ridge" lines may be visible. Contact Decoustics for best finishes to use with specific lighting.

Handling and installing pre-curved panels requires considerable care and pre-planning. Ensure selected panel size will fit through doorways, into elevators and similar spaces.

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### 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.

4. Suspended Reveal (non-accessible, with open reveal panel joints).
5. Suspended Reveal (progressively accessible, with closed reveal panel joints).
6. Suspended Reveal (upward accessible, with open reveal panel joints).
7. *Ceilencio* Custom (downward accessible, with defined panel joints).
8. Lay-In (upward accessible, with exposed suspension grid).

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

*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.

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT	COLOR
Fabric or Vinyl	Resin: square edge; open or closed reveal joint.	Fabric: Up to 48" x 120" (1220 mm x 3050 mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m <sup>3</sup> ) core with a 1/16" (1.5 mm) thick 16 to 20 pcf (256 to 320 kg/m <sup>3</sup> ) high density integral facer. Fabric corners are fully tailored (no exposed darting). Vinyl corners are heat sealed. A 1 mil clear vapor retarder is adhered to panel back.	1-1/16 (27 mm)	0.80	0.90 psf (4.40 kg/m <sup>2</sup> )	As per finish selected
	Aluminum: square edge with 1/8" (3 mm) defined joint.	Vinyl: Up to 48" x 120" (1220 mm x 3050 mm).		1-9/16" (40 mm)	N/A	1.2 psf (5.90 kg/m <sup>2</sup> )	
		Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side.		2-1/16" (52 mm)	N/A	1.52 psf (7.50 kg/m <sup>2</sup> )	
Claro or Metallo II	Aluminum: Coated square edge with 1/8" (3mm) defined joint.	Up to 72" x 48" (1830 mm x 1220 mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m <sup>3</sup> ) core with a 1/16" (1.5 mm) thick 16 to 20 pcf (256 to 320 kg/m <sup>3</sup> ) high density integral facer designed to receive a non-bridging acoustically transparent coating. A 1 mil clear vapor retarder is adhered to panel back.	1-1/16" (27 mm)	0.90	1.05 psf (5.15 kg/m <sup>2</sup> )	Standard White CSW-100 Light Reflectance 90%
		Handling larger panels may result in damage to finish. Consult Decoustics.		1-9/16" (40 mm)	N/A	1.40 psf (6.84 kg/m <sup>2</sup> )	
				2-1/16" (52 mm)	N/A	1.78 psf (8.70 kg/m <sup>2</sup> )	Custom Colors mixed to match color chips
Quadrillo	Unfinished square kerf and spline, 3/32" (2.4 mm) edge banding veneer and solid wood face frame. Custom edge profiling on request.	48" x 60" (1220 mm x 1525 mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m <sup>3</sup> ) density mat faced core laminated between a layer of 1/4" (6 mm) thick <i>Quadrillo</i> face and a 1/8" (3 mm) HDF perforated backing board (QPP). Internal fire treated particle board framing as required for edge conditions.	Overall nominal thickness: QPP-19 1-1/8" (28 mm)	0.80	2.80 psf (13.68 kg/m <sup>2</sup> )	anigre ash beech cherry mahogany maple oak paint finish pear walnut
				QPP-25 1-3/8" (35 mm)	0.90	3.40 psf (16.61 kg/m <sup>2</sup> )	
				QPP-50 2-3/8" (60 mm)	1.00	5.5 psf (26.85 kg/m <sup>2</sup> )	

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For LEED, BREEAM, and environmental information, please visit our website's home page.

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