

Ceilings

Custom Curved

S-SHAPED OR WAVE PANEL

Description

Decoustics acoustical panels provide architects and designers with wide latitude in curvilinear design. S-Shape or Wave pre-curved ceiling panels are a unique way to create dramatic visual expression without 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. Panels consist of two-dimensional pre-curved units that utilize one or two radii (inside and outside) throughout the curve. Interesting visuals are possible due to the distinctive shapes that can be achieved with these panels.

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, geometric shapes, ellipses, vaults, acoustical domes, thicknesses, and finishes.

Limitations

Minimum radius is currently 30" (762 mm). Contact Decoustics regarding availability of smaller radii.

Design Considerations

The panels alone can form the S-Shape or Wave without the need for a curved substrate. If, however, a curved substrate already exists, panels can be directly mounted to it.

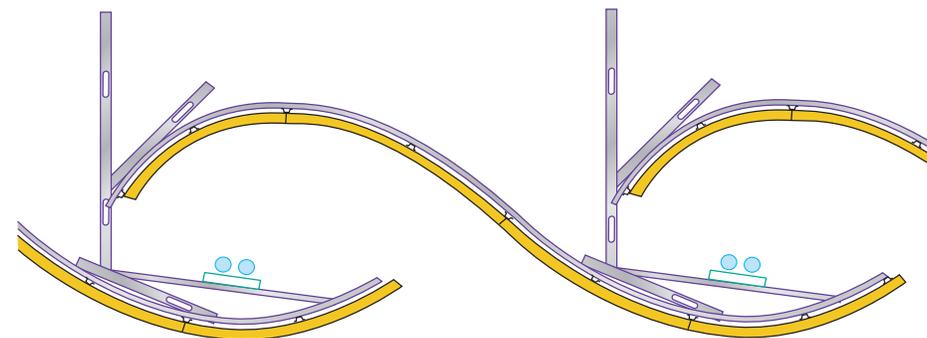
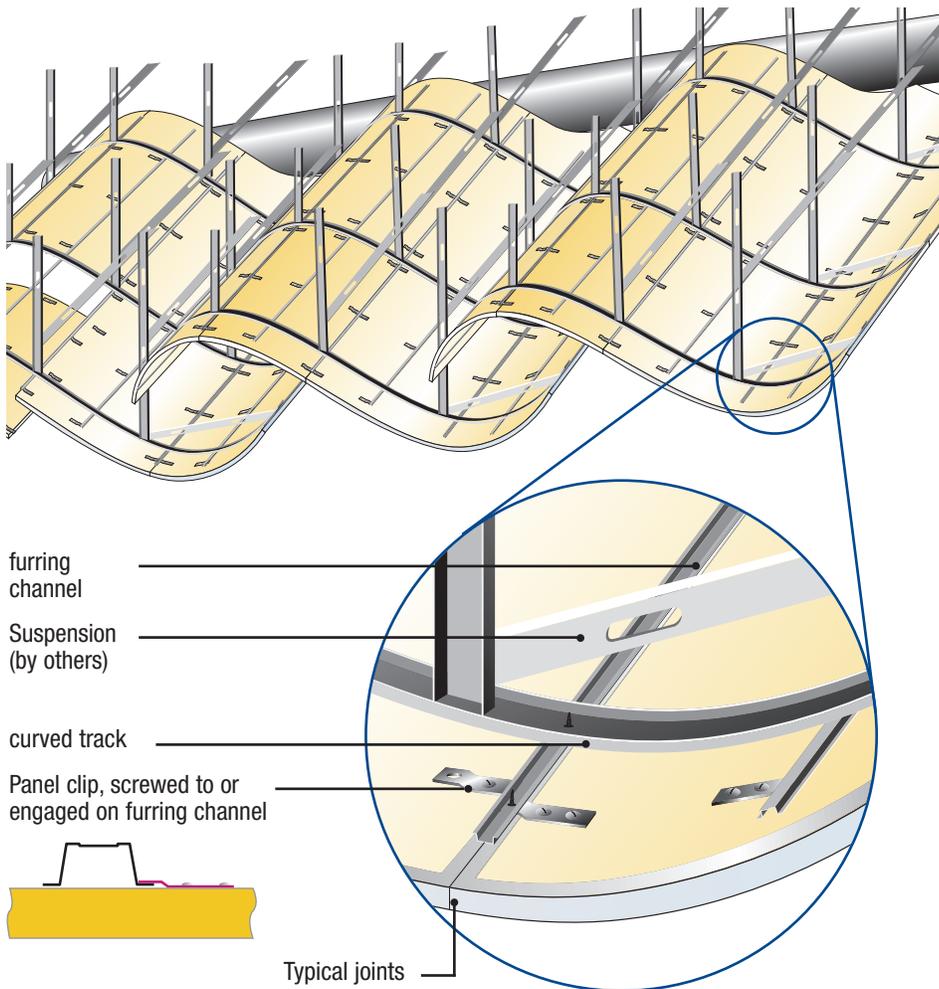
Depending on panel radius and thickness, exposed darting at corners may result with some fabric finishes. Darting will always be visible with vinyl finishes. Contact Decoustics for specific information.

It is recommended that curved panels have joints where the radius changes from inside to outside.

Extruded aluminum metal edges are preferred for joint detail alignment and handling.

Contact Decoustics for best finishes to use with specific lighting.

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Mounting Methods

Pre-curved S-Shape or Wave panels can be installed using the following Decoustics ceiling systems:

1. Span (Perimeter supported, upward accessible, with defined, closed (refer to data sheet "Custom Curved - Vault Shape" for diagram details) reveal or open joints).
2. Direct Mount (progressively accessible, only with defined, closed reveal or open reveal joints).
3. Direct To Suspended Frame/Grid (progressively accessible with defined, closed reveal or open reveal panel joints).
4. Suspended Reveal (Floating panels, with open reveal joints).
5. Accessible Reveal (upward accessible, with minimum reveal joints).
6. Ceilencio Custom (downward accessible, with defined joints).
7. Lay-In (upward accessible, with exposed suspension grid).

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

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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.

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.

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 ³) core with a 1/16" (1.5 mm) thick 16 to 20 pcf (256 to 320 kg/m ³) 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 ²)	As per finish selected
	Aluminum: square edge with 1/8" (3 mm) defined joint.	Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side.		1-9/16" (40 mm)	N/A	1.20 psf (5.90 kg/m ²)	
				2-1/16" (52 mm)	N/A	1.52 psf (7.50 kg/m ²)	
Claro or Metallo	Aluminum: Coated, square edge with 1/8" (3 mm) defined joint.	Recommended Up to 72" x 48" (1830 mm x 1220 mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) density acoustically absorptive core, with a special high acoustic performance layer laminated to face (1-1/16" (27 mm) overall thickness) 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 ²)	Standard White CSW-100 Light Reflectance 90%
		Handling larger panels may result in damage to panels. Consult Decoustics for larger panel sizes.		1-9/16" (40 mm)	N/A	1.40 psf (6.84 kg/m ²)	
					2-1/16" (52 mm)	N/A	1.78 psf (8.70 kg/m ²)
Cuadrillo	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 ³) density mat faced core laminated between a layer of 1/4" (6 mm) thick Cuadrillo 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 ²)	anigre ash beech cherry mahogany maple oak paint finish pear walnut
				QPP-25 1-3/8" (35 mm)			
				QPP-50 2-3/8" (60 mm)	1.00	5.5 psf (26.85 kg/m ²)	Custom on request

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