S-Shaped Ceiling

decoustics®

Furring channel

Curved track suspension (not by Decoustics)

Curved track

Panel clip, screwed to or engaged on furring channel

Typical joints

DESIGN AND SPECIFICATIONS

Description

S-Shape ceiling panels are a unique way to address the problems of sound focusing and reflection normally associated with traditional hard surface finishes. The 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, thicknesses and finishes.

Limitations

Minimum radius is 30" (760mm).

Design Considerations

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

Depending on panel radius and thickness, exposed darting at corners may result with some fabric finishes.

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.

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.

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT	COLOR
Fabric	**Resin:** square edge open or closed reveal joint **Aluminum:** square edge with 1/8" (3mm) defined joint	Fabric: Up to 48" x 120" (1220mm x 3050mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25mm) on back side.	Panel consists of a 6 to 7 pcf (96 to 112 kg/m³) core with a 1/16" (1.5mm) thick 16 to 20 pcf (256 to 320 kg/m3) high density integral facer. Fabric corners are fully tailored (no exposed darting). A 1 mil clear vapor barrier is adhered to panel back.	1-1/16" (27mm) 1-9/16" (40mm) 2-1/16" (52mm)	0.80 N/A N/A	0.90 psf (4.40 kg/m²) 1.20 psf (5.90 kg/m²) 1.52 psf (7.50 kg/m²)	As per finish selected.
Claro or Metallo	**Aluminum:** Coated square edge with 1/8" (3mm) defined joint	Recommended: Up to 72" x 48" (1830mm x 1220mm). Handling larger panels may result in damage to panels. Consult Decoustics for larger panel sizes.	Panel consists of a 6 to 7 pcf (96 to 112 kg/m³) density acoustically absorptive core, with a special high acoustic performance layer laminated to face (1-1/16" (27mm) overall thickness) designed to receive a non-bridging acoustically transparent coating. A 1 mil clear vapor barrier is adhered to panel back.	1-1/16" (27mm) 1-9/16" (40mm) 2-1/16" (52mm)	0.85 0.90 0.95	1.05 psf (5.15 kg/m²) 1.40 psf (6.84 kg/m²) 1.78 psf (8.70 kg/m²)	Claro Light Reflectance 90% Custom Colors to match color chips
Quadrillo	Unfinished square kerf and spline, 3/32" (2.4mm) edge banding veneer and solid wood face frame. Custom edge profiling on request.	48" x 60" (1220mm x 1525mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m³) density mat faced core laminated between a layer of 1/4" (6mm) thick Quadrillo face and a 1/8" (3mm) HDF perforated backing board (QPP). Internal fire treated particle board framing as required for edge conditions.	QPP-19 1-1/8" (28mm) QPP-25 1-3/8" (35mm) QPP-50 2-3/8" (60mm)	0.70 0.80 1.00	2.80 psf (13.68 kg/m²) 3.40 psf (16.61 kg/m²) 5.5 psf (26.85 kg/m²)	Anigre Ash Beech Cherry Mahogany Maple Oak paint finish pear walnut Custom on request

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.

Mounting Methods

S-Shape 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 (downward accessible, with defined joints).

7. Lay-In (upward accessible, with exposed suspension grid).

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