



DESIGN AND SPECIFICATIONS

Description

Decoustics Span acoustical ceiling panels consist of a medium density core and can be finished with a variety of Decoustics finishes. The back side of panel has a clear vapor barrier.

Span panels can be up to 10' (3050mm) long with 100% accessibility to plenum spaces depending on panel size. Panels are removed by lifting, tilting and lowering.

Panel ends are supported at ceiling-wall junctions using exposed wall moldings or T-bar components. Panel can be either butted together, have defined joints or mounted to provide wide reveals.

Panels

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

Limitations

Panel spans or sizes are limited to 120" x 60" (3050mm x 1525mm) for fabric finished panels, considering fabric width availability, and 72" x 48" (1830mm x 1220mm) for Claro or Metallo finishes.

Design Considerations

Plenum accessibility is dependent on panel sizes and panel edge conditions. 100% accessibility for panels sizes up to 60" (1525mm) when a metal edge is used and 48" (1220mm) when a resin edge is used. Contact Decoustics for additional information.

All lights, diffusers, speakers, smoke detectors, sprinklers, and similar items that penetrate or are located in the ceiling must be independently

supported. The panels are not structurally capable of supporting the weight of any of these items.

When using speakers in ceiling or wall panels, it is recommended the speaker grille be visibly mounted at the face of the panel. Speaker function creates air movement and any fabric covering the speaker will experience premature soiling.

Maintenance

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

Standards, Tests and Approvals

Surface Burning Characteristics (ASTM E-84): All panel components have a Flame Spread rating of less than 25.

Note: Building code requirements may necessitate composite panel testing based on specified finish.

A panel comprised of "Class A" (Flame Spread of 25 or less) components does not necessarily produce a composite panel meeting the "Class A" requirement. Decoustics has a considerable number of composite panel tests on file.

Decoustics Span Ceiling

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT	COLOR
Fabric	Resin: - square - bevelled - radiused - stepped Aluminum: square edge with 1/8" - 3/16" (3mm - 5mm) defined joint; or bevelled edge.	Fabric: Up to 60" x 120" (1525mm 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/m ³) core. Cloth corners are fully tailored (no exposed darting). A 1 mil clear vapor barrier is adhered to panel back.	1" (25mm)	0.85	0.90 psf (4.40 kg/m ²)	As per finish selected
				1-1/2" (38mm)	0.95	1.20 psf (5.90 kg/m ²)	
				2" (50mm)	1.10	1.52 psf (7.50 kg/m ²)	
Claro or Metallo	Aluminum: Coated square edge with 1/8" - 3/16" (3mm - 5mm) defined joint	Recommended Up to 48" x 72" (1220mm x 1830mm) and 60" x 60" (1525mm x 1525mm). 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/m ³) 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)	0.85	1.05 psf (5.15 kg/m ²)	Claro Light Reflectance 90% Custom colors to match color chips
				1-9/16" (40mm)	0.90	1.40 psf (6.84 kg/m ²)	
				2-1/16" (52mm)	0.90	1.78 psf (8.70 kg/m ²)	
Quadrillo	Unfinished square kerf and spline, 3/32" (2.4mm) edge banding veneer and solid wood face frame. Custom edge profiling on request. Refer to finishes section for additional acoustical data.	48" x 60" (1220mm x 1525mm).	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" (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)	0.70	2.80 psf (13.68 kg/m ²)	Anigre Ash Beech Cherry Mahogany Maple Oak Paint Finish Pear Walnut Custom on request
				QPP-25 1-3/8" (35mm)	0.80	3.40 psf (16.61 kg/m ²)	
				QPP 2-3/8" (60mm)	1.00	5.5 psf (26.85 kg/m ²)	

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

Mechanically mount only using either:

(a) For panels with spans to 60" (see Design Considerations) use lay-in method.

Panel span openings are supported on two edges using installer supplied moldings.

(b) For panels over 60" use installer supplied T-bar having a 15/16" (24mm) face flange and 1-1/2" (38mm) web height.

Note: T-bar is first secured to factory installed DPC-2 clips mounted on panel backs and then the completed panel assembly is hung in place using wires or rods (see diagrams). Adjacent panels are supported either side of the primary assembly without hangers to allow easy accessibility to plenum spaces.

Acoustical Data (ASTM C423: Type F5 Mounting as per ASTM E795).

FINISH	PANEL THICKNESS	FREQUENCY (Hz)						NRC	SAA
		125	250	500	1000	2000	4000		
Fabric	1" (25mm)	0.35	0.41	0.84	1.09	1.09	1.02	0.85	0.84
Fabric	2" (50mm)	0.19	0.87	1.20	1.19	1.08	1.03	1.10	1.05
Claro or Metallo	1-1/16" (27mm)	0.17	0.36	1.04	1.01	1.05	1.01	0.85	0.87
Quadrillo QPP-19	Panel 1-1/8" (28mm) Core 3/4" (19mm)	0.05	0.16	0.59	1.01	0.94	0.69	0.70	0.69
Quadrillo QPP-25	Panel 1-3/8" (35mm) Core 1" (25mm)	0.07	0.28	0.85	1.09	0.95	0.74	0.80	0.79
Quadrillo QPP-50	Panel 2-3/8" (60mm) Core 2" (50mm)	0.29	0.82	1.18	1.06	1.00	0.73	1.00	1.03

Acoustic testing was performed on a panel finished with an acoustically transparent fabric.



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