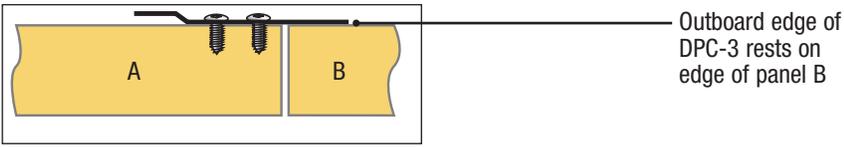
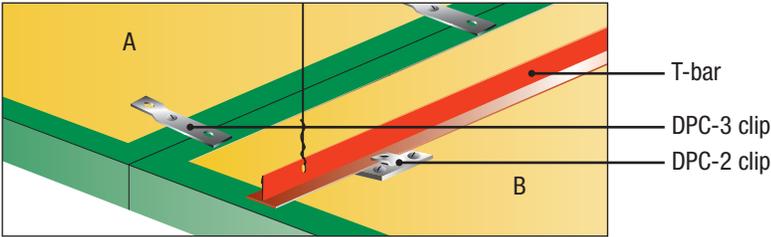
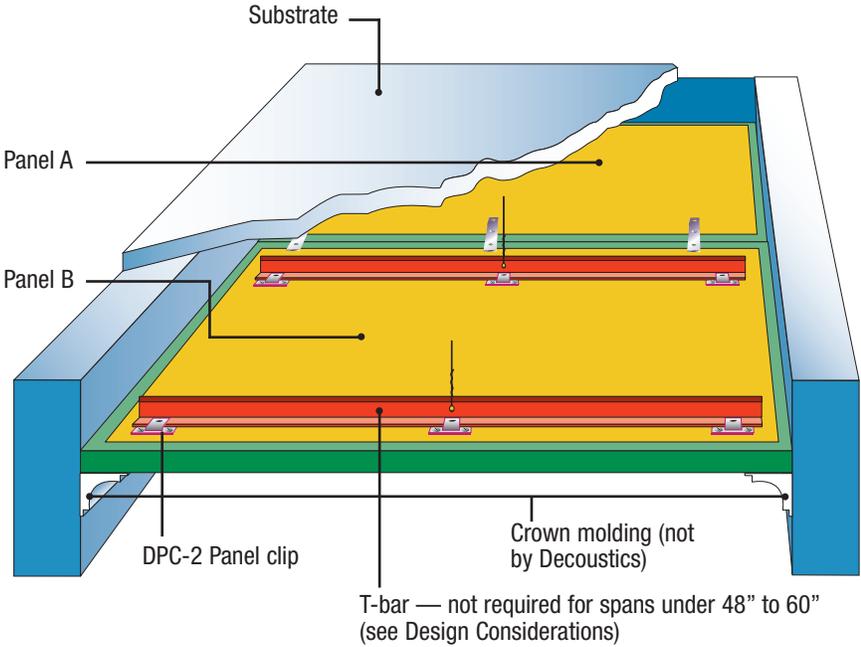


Ceilings

Span



Description

Decoustics Span acoustical ceiling panels consist of a medium density core and an attractive range of finishes. The plenum or back side of panels is supplied complete with a clear vapor retarder.

Typically employed in areas where a single span is desired. Span is available in up to 10'-0" (3050 mm) long panels and can provide up to 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 joints are 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, ellipses, vaults, acoustical domes, thicknesses, and finishes.

Limitations

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

Design Considerations

Accessibility to plenum spaces above the ceiling is dependent on panel size, e.g. 100% accessibility is available for spans up to 48" (1220 mm) with chemically hardened edges, and 60" (1525 mm) for aluminum reinforced edges. For panel spans over these dimensions and up to 120" (3050 mm), accessibility is limited to approximately 50% of ceiling surface, e.g. every other panel. Consult with 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.

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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.

Acoustical Data (ASTM C423: Type E400 Mounting as per ASTM E795).

FINISH	PANEL THICKNESS	FREQUENCY (Hz)						NRC	SAA
		125	250	500	1000	2000	4000		
* Fabric	1" (25 mm)	0.46	0.52	0.94	1.01	1.10	1.13	0.90	0.87
* Fabric	2" (50 mm)	0.42	0.77	1.05	1.09	1.09	1.08	1.00	0.97
Claro or Metallo	1-1/16" (27 mm)	0.39	0.63	0.83	1.05	1.05	1.00	0.90	0.87
Quadrillo									
QPP-19	Panel 1-1/8" (28 mm) Core 3/4" (19 mm)	0.78	0.77	0.61	0.86	1.04	0.70	0.80	0.82
QPP-25	Panel 1-3/8" (35 mm) Core 1" (25 mm)	0.74	0.79	0.72	1.00	1.02	0.78	0.90	0.88
QPP-50	Panel 2-3/8" (60 mm) Core 2" (50 mm)	0.80	0.87	1.00	1.07	1.06	1.00	1.00	0.98

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

Ceilings

Span

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.

Related Data

Decoustics 3-Part Guide Specifications.

Mounting Methods

Mechanically mount only using either:

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

Panel spans opening and is supported on two edges using installer supplied moldings.

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

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; beveled; radiused; stepped - available Reveal joint Butt joint. (specific fabrics only) Aluminum: square edge with 1/8" - 3/16" (3 mm - 5 mm) defined joint; or bevelled edge.	Fabric: Up to 60" x 120" (1525 mm x 3050 mm). Vinyl: Up to 48" x 120" (1220 mm x 3050 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. Cloth corners are fully tailored (no exposed darting). Vinyl corners are heat sealed. A 1 mil clear vapor barrier retarder is adhered to panel back.	1" (25 mm)	0.85	0.90 psf (4.40 kg/m ²)	As per finish selected		
				1-1/2" (38 mm)	0.95	1.20 psf (5.90 kg/m ²)			
				2" (50 mm)	1.05	1.52 psf (7.50 kg/m ²)			
Claro or Metallo	Aluminum: Coated square edge with 1/8"- 3/16" (3 mm - 5 mm) defined joint.	Recommended Up to 48" x 72" (1220 mm x 1830 mm) and 60" x 60" (1525 mm x 1525 mm). 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" (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%		
				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)	Custom Colors 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. Refer to Finishes section for additional acoustical data.	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 Quadrillo 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)				0.90	3.40 psf (16.61 kg/m ²)
				QPP-50 2-3/8" (60 mm)					