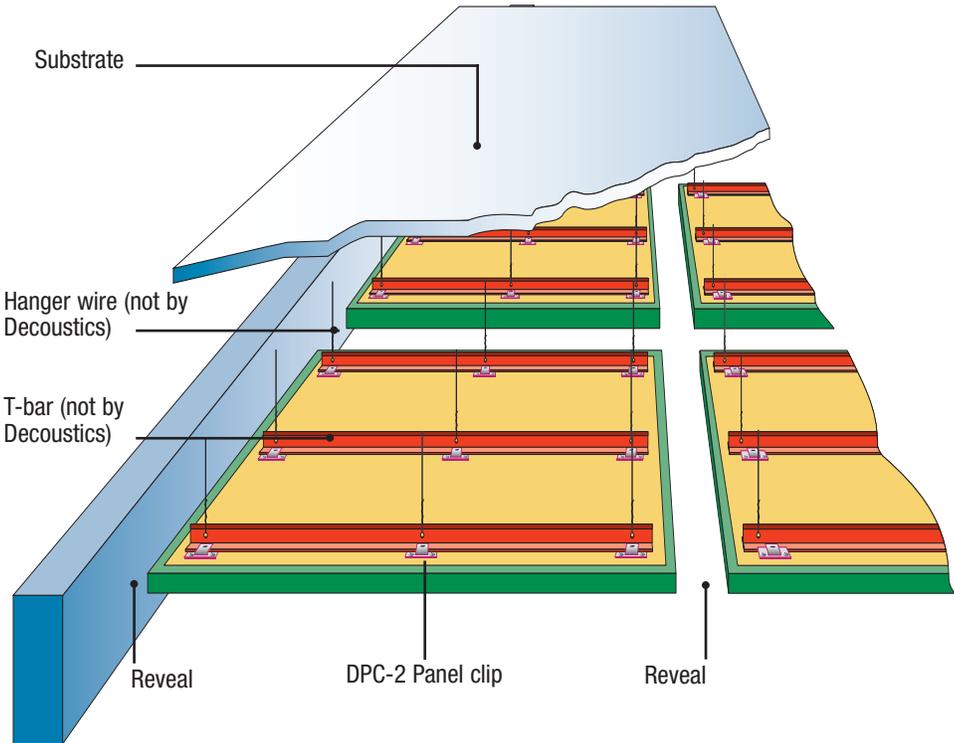


Ceilings

Suspended Reveal



Description

Decoustics Suspended Reveal 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 and mounting clips.

Typically employed in areas where a floating panel effect is desired, a minimum 4" (100 mm) reveal is required around each panel to facilitate installation. Note: a progressive installation is possible which will allow a 1" (25 mm) reveal around each panel with the exception of the perimeter panels where the minimum 4" (100 mm) reveal is still required.

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 panels, and 72" x 48" (1830 mm x 1220 mm) for coated finishes.

Design Considerations

A minimum space of 6" (150 mm) between the back of the panel and the structure above is required to install the Suspended Reveal system. Plenum space above ceiling is largely non-accessible. Individual de-installation of panels is possible if localized access is required.

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.

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.

Mounting Methods

Mechanically mount using 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 assembly is hung in place using hanger wires or rods typically on 48" (1220 mm) centers along each 'T' bar.

Only handle panels wearing clean, lightweight, white gloves during installation.

Follow manufacturer's printed instructions for installation as well as field cutting of panels.

Ceilings

Suspended Reveal

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.

Maintenance

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

Related Data

Decoustics 3-Part Guide Specification.

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT	COLOR
Fabric or Vinyl	Resin: square edge; bevelled; radiused; stepped. Aluminum: square or bevelled.	Fabric: Up to 120" x 60" (3050 mm x 1525 mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) core. 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" (25 mm)	0.85	0.90 psf (4.40 kg/m ²)	As per finish selected
		Vinyl: Up to 120" x 48" (3050 mm x 1220 mm).		1-1/2" (38 mm)	0.95	1.20 psf (5.90 kg/m ²)	
		Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side.		2" (50 mm)	1.05	1.52 psf (7.50 kg/m ²)	
Claro or Metallo	Aluminum: Coated.	Recommended Up to 72" x 48" (1830 mm x 1220 mm) and 60" x 60" (1525 mm x 1525 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)
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 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)			
				QPP-50 2-3/8" (60 mm)	1.00	5.5 psf (26.85 kg/m ²)	Custom on request

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