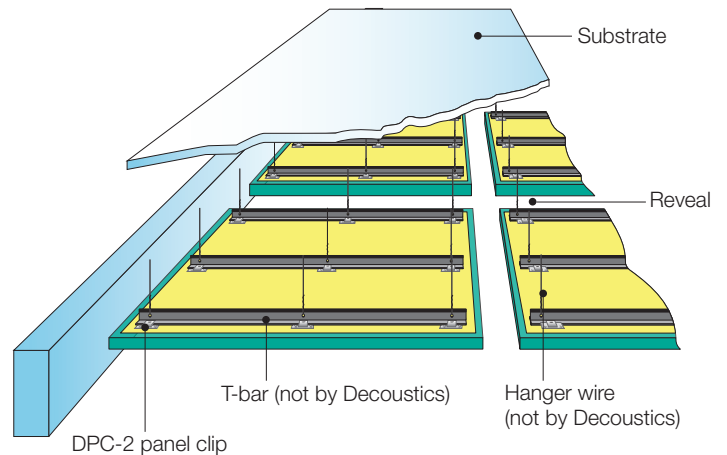


Suspended Reveal Ceiling



DESIGN AND SPECIFICATIONS

Description

Decoustics Suspended Reveal acoustical ceiling panels consist of a medium density core finished with fabric, Claro® or Metallo®. The plenum or back side of the panel is supplied with a clear vapor barrier and mounting clips.

Where a floating panel effect is desired a minimum 4" (100mm) reveal is required around each panel to facilitate a progressive installation. A 1" (25mm) reveal around each panel is possible, however perimeter panels require a minimum 4" (100mm) reveal.

Panels

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

Limitations

Panel 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 coated finishes.

Design Considerations

A minimum space of 6" (150mm) between the back of the panel and the structure above is required to install the Suspended Reveal ceiling 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.

Maintenance

Refer to appropriate Decoustics "Cleaning and 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 Suspended Reveal Ceiling

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT	COLOR
Fabric	Resin: - square - bevelled - radiused - stepped Aluminum: - square - bevelled	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.	Suspended Accessible Reveal consists of a 6 to 7 pcf (96 to 112 kg/m ³) medium density core. Fabric 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	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 the face (1-1/16" (27mm) overall thickness) which is 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 available
				1-9/16" (40mm)	0.90	1.40 psf (6.84 kg/m ²)	
				2-1/16" (52mm)	0.95	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-50 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 using 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 assembly is hung in place using hanger wires or rods typically on 48" (1220mm) 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.

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
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
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
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.



Decoustics
 61 Royal Group Crescent
 Woodbridge, Ontario L4H 1X9 Canada
www.Decoustics.com
 Phone: 905-652-5200
 Toll Free: 800-387-3809
 © 07/15 Decoustics
 Code No. CTC-DC-0715-3000-3