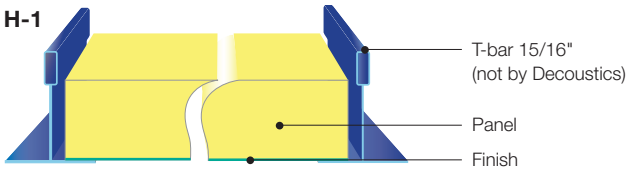
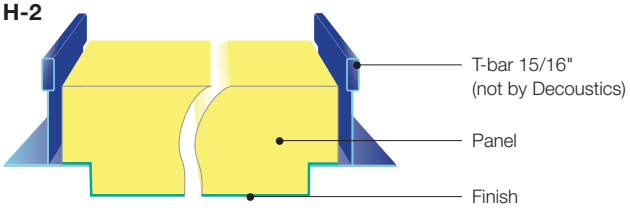
Lay-in Ceiling Panels

decoustics®

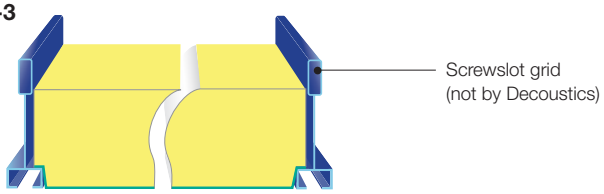
H-1



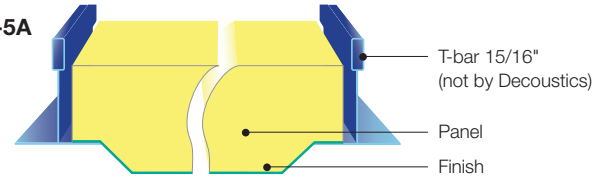
H-2



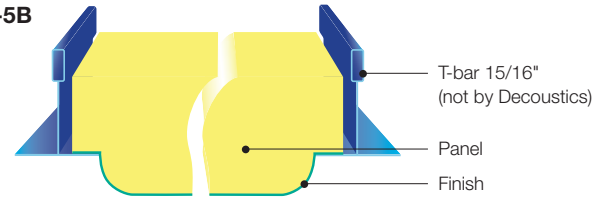
H-3



H-5A



H-5B



DESIGN AND SPECIFICATIONS

Description

Decoustics Lay-in ceiling panels have a medium density core. Panels lay into an exposed standard or custom suspension grid and are supported on all edges. For larger panels an intermediate T-bar is employed and secured to clips on the panel backs to reduce panel sag. The entire assembly lays into the exposed grid. In all cases, the ceiling system is 100% accessible. Ceiling perimeter trim options include an exposed wall mold, shadow mold, or T-bar.

Panels

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

Limitations

A minimum space of 5" (125mm) is required behind the panel for installation, and panel removal.

Design Considerations

When deciding upon panel size(s) to use, consider the practicality of installing, handling and accessing the panels.

To prevent premature soiling due to concentrated air movement at panel perimeters (halo effect), a vapor barrier should only be used on panels with "sealed" edges.

All lights, diffusers, speakers, smoke detectors, sprinklers, and similar items that penetrate or are located in the ceiling must be independently supported. The panel is 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. To access plenum spaces, remove ceiling panels by lifting, tilt and rotate, and lowering.

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.

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT	COLOR
Fabric	H1, H2, H3, H5-A, H5-B (Fabric).	Fabric: Up to 60" x 60" (1525mm x 1525mm). Finish width must be sufficient to cover panel face and edges as required.	Panel consists of a 6 to 7 pcf (96 to 112 kg/m^3) core. Fabric finish is applied to the panel face only. A 1 mil clear vapor barrier option, adhered to panel back is available. (See design considerations)	1" (25mm) 1-1/2" (38mm) 2" (50mm)	0.85 0.95 1.10	0.90 psf (4.40 kg/m^2) 1.20 psf (5.90 kg/m^2) 1.52 psf (7.50 kg/m^2)	As per finish selected
Claro or Metallo	H1, H2, H3.	Up to 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) 1-9/16" (40mm) 2-1/16" (52mm)	085 0.90 0.95	1.05 psf (5.15 kg/m^2) 1.40 psf (6.84 kg/m^2) 1.78 psf (8.70 kg/m^2)	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).* * H1 & H2 Only	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.	Overall nominal thickness: 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/m^2) 3.40 psf (16.61 kg/m^2) 5.5 psf (26.85 kg/m^2)	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

Lay panels into installer supplied grid with edges supported on all sides.

For large panels, slip an installer supplied 1-1/2" (38mm) high T-bar through and secure to Decoustics installed clips on panel backs, and then lay the completed assembly into the exposed grid.

Installer to supply all suspension components including, ceiling anchors, hanger wires or rods, exposed grid, wall moldings, and similar hardware.

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

FINISH	PANEL THICKNESS	FREQUENCY (Hz) 125	250	500	1000	2000	4000	NRC	SAA
*Fabric	1" (25mm)	0.35	0.41	0.84	1.09	1.09	1.02	0.85	0.84
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
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

Code No. CTC-DC-0715-WO-3