Suspended Accessible Reveal Ceiling

decoustics®

Substrate

Stabilizer angle (not by Decoustics)

Leveling channel (not by Decoustics)

Acoustical core

24" maximum on-center

Finish

Snap-in holding clip (field installed)

Leveling channel

Panel clip (factory mounted)
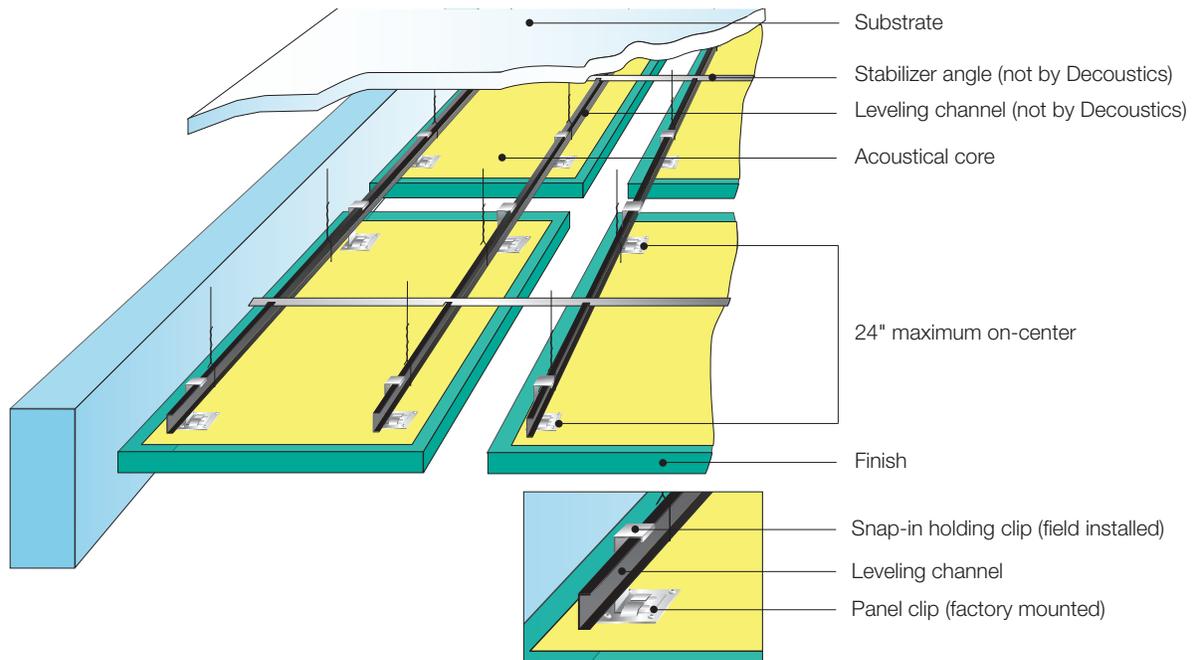
DESIGN AND SPECIFICATIONS

Description

Decoustics Suspended Accessible Reveal acoustical ceiling panels are constructed of a medium density acoustical core and are available with a variety of Decoustics finish options. The back side of panel has a clear vapor barrier and mounting clips.

Typically installed in areas where a floating panel effect is desired. A minimum 1" (25 mm) reveal is required around each panel to facilitate installation. The panels clip onto an installer supplied frame or grid system and are individually removable by lifting upwards moving sideways and lowering. The frame or grid system is secured using hanger wires or rods supplied by the installing contractor.

Panels

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

Limitations

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

Design Considerations

A minimum space of 10" (250 mm) between the back of the panel and the structure above is required to install the Suspended Reveal mounting system. Plenum space above ceiling is 100% accessible.

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.

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	NOMINAL THICKNESS	NRC	WEIGHT	COLOR
Fabric	**Resin:** - square - bevelled - radiused - stepped **Aluminum:** - square - bevelled	Fabric: Up to 60" x 120" 0(1525 mm x 3050 mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side.	Suspended Accessible Reveal consists of a 6 to 7 pcf (96 to 112 kg/m³) medium density core. Fabric corners are fully tailored (no exposed darting). A 1 mil clear vapor barrier is adhered to panel back.	1" (25 mm) 1-1/2" (38 mm) 2" (50 mm)	0.85 0.95 1.10	0.90 psf (4.40 kg/m²) 1.20 psf (5.90 kg/m²) 1.52 psf (7.50 kg/m²)	As per finish selected.
Claro or Metallo	**Aluminum:** coated square edge	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/m³) 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 barrier is adhered to panel back.	1-1/16" (27 mm) 1-9/16" (40 mm) 2-1/16" (52 mm)	0.85 0.90 0.95	1.05 psf (5.15 kg/m²) 1.40 psf (6.84 kg/m²) 1.78 psf (8.70 kg/m²)	Claro Light Reflectance 90% 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.	48" x 60" (1220 mm x 1525 mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m³) density acoustical 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.	QPP-19 1-1/8" (28 mm) QPP-25 1-3/8" (35 mm) QPP-50 2-3/8" (60 mm)	0.70 0.80 1.00	2.80 psf (13.68 kg/m²) 3.40 psf (16.61 kg/m²) 5.5 psf (26.85 kg/m²)	Anigre Ash Bech Cherry Mahogany Maple Oak Paint Finish Pear Walnut Custom on request
Solo-M	Unfinished square, 1/32" or 1/66" edge banding veneer and solid wood face frame. Custom edge profiling on request.	3' x 5' (915 mm x 1520 mm) Recommended maximum size.*	Panel consists of a 5/8" thick perforated fire treated MDF with a ribbed natural wood veneer laminated to the face with an acoustically transparent black fleece laminated to the back.	5/8"	0.80	2 psf	
Fori™	Unfinished square, 1/66" edge banding veneer and solid wood face frame. Custom edge profiling on request.	3' x 5' (915 mm x 1520 mm) Recommended maximum size.*	Panel consists of a 5/8" thick perforated fire treated MDF with a 1/16" (1.5mm) diameter mini perforations on the natural wood veneer laminated to the face with an acoustically transparent black fleece laminated to the back.	5/8"	0.70	2 psf	
Rondolo™	Unfinished square, 1/66" edge banding veneer and solid wood face frame. Custom edge profiling on request.	3' x 5' (915 mm x 1520 mm) Recommended maximum size.*	Panel consists of a 5/8" thick perforated fire treated MDF with a 0.5mm diameter staggered micro perforations on the natural wood veneer laminated to the face with an acoustically transparent black fleece laminated to the back.	5/8"	0.80	2 psf	

*For bigger sizes, contact Decoustics.

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 frame or grid system.

Install Decoustics supplied hanger clips onto factory installed panel clips mounted on back of panel. Lift panel up, sideways and lower hanger clips onto frame or grid. Adjust hanger clips to ensure a flat, uniform ceiling.

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

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" (25mm)	0.35	0.41	0.84	1.09	1.09	1.02	0.85	0.84
	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" (28 mm) Core 3/4" (19 mm)	0.05	0.16	0.59	1.01	0.94	0.69	0.70	0.69
QPP-25	Panel 1-3/8" (35 mm) Core 1" (25 mm)	0.07	0.28	0.85	1.09	0.95	0.74	0.80	0.79
QPP-50	Panel 2-3/8" (60 mm) Core 2" (50 mm)	0.29	0.82	1.18	1.06	1.00	0.73	1.00	1.03
Solo-M	16mm (5/8") Panel No Core	0.84	0.91	0.65	0.67	0.63	0.77	0.80	0.79
Fori™	16mm (5/8") Panel *No Fiberglass Backing	0.84	1.03	0.62	0.60	0.46	0.31	0.70	0.66
	16mm (5/8") Panel 25mm (1") Backing	0.91	0.90	0.95	0.85	0.49	0.26	0.80	0.84
Rondolo™	16mm (5/8") Panel **No Fiberglass Backing	0.87	0.95	0.69	0.74	0.81	0.60	0.80	0.81
	16mm (5/8") Panel 25mm (1") Backing	0.74	0.86	0.87	1.01	0.88	0.61	0.90	0.89
	16mm (5/8") Panel 25mm (2") Backing	0.76	0.80	1.03	1.02	0.89	0.61	0.95	0.92

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