

Walls

Acoustical Panel

AP

Description

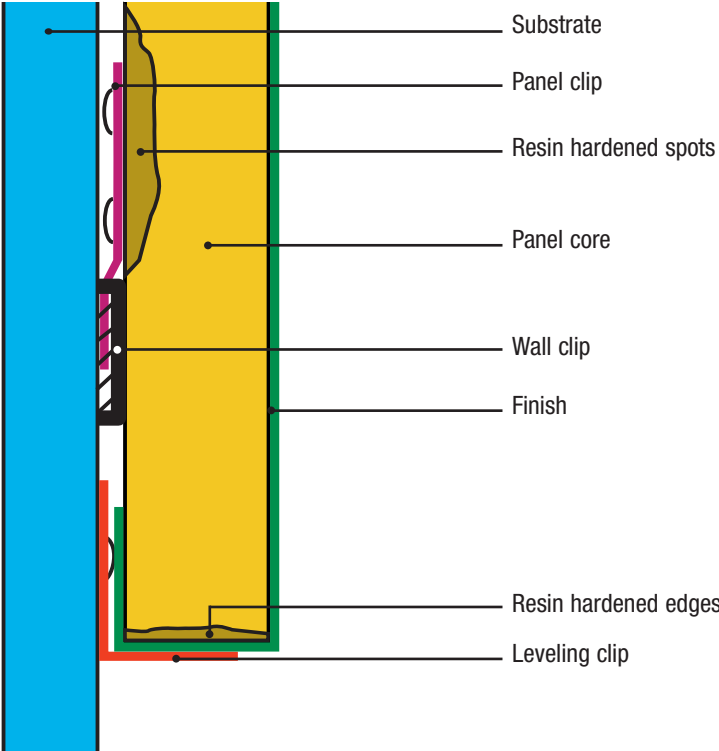
Decoustics Acoustical Panel is a general purpose wall panel consisting of a medium density core with a fabric or vinyl finish. Panels are recommended for use where panels are unlikely to be subjected to abuse or impact. Panels are supplied complete with factory installed devices for different types of mounting e.g. mechanical, adhesive, magnetic, and hook and loop fastenings.

Panels

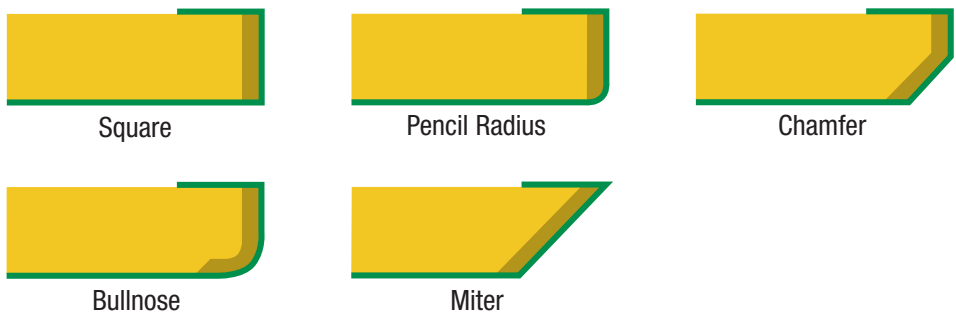
All Decoustics panels are custom fabricated and offered in a variety of sizes, geometric shapes, curves, thicknesses and finishes.

Design Considerations

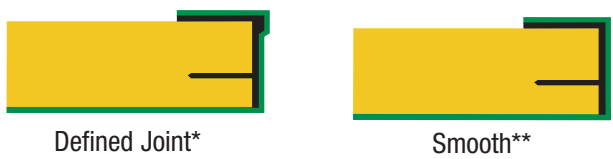
When using speakers in ceiling or wall panels, it is recommended the speaker grille be visibly mounted at the face of the panel. Speaker function creates air movement and any fabric covering the speaker will experience premature soiling.



Resined Edges



Metal Edges



*available in 1" (25mm), 1-1/2" (38mm) and 2" (50mm) thickness
 **available in 1" (25mm) thickness

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.

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Maintenance

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

Related Data

Decoustics 3-Part Guide Specification.

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	1/2" (13 mm)	0.04	0.12	0.30	0.69	0.87	0.95	0.50	0.49
* Fabric	3/4" (19 mm)	0.13	0.2	0.66	0.91	1.04	0.95	0.70	0.68
* Fabric	1" (25 mm)	0.03	0.37	0.89	1.10	1.09	1.05	0.85	0.87
* Fabric	1-1/2" (38 mm)	0.15	0.58	1.01	1.13	1.10	1.03	0.95	
* Fabric	2" (50 mm)	0.23	0.81	1.19	1.19	1.11	1.12	1.05	1.07

* Acoustic testing was performed on a panel finished with an acoustically transparent fabric. See finishes, fabrics and vinyls for additional acoustical performance data.

Mounting Methods

Mount panels to walls using mechanical fastening, adhesive, magnetic fastening or hook and loop fastening. Mechanically mount only for panels located above head height (includes slide and engage z-clips, wall clips and/or track).

Use adhesive and mechanical fastening to secure "loop" to wall i.e. stapled with splayed-outward legs. Consult with fastener manufacturer to determine correct fastener to use for specific substrates, particularly plaster or gypsum board.

Note: It is not always possible to secure panels or mounting hardware to a substrate support such as a steel stud.

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

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT
Fabric or Vinyl	Resin: square, bevelled, radiused, stepped. Concealed Extruded Aluminum: square *(butt and defined), bevelled. * butt for 1" & 2" thickness only defined for 1", 1-1/2" & 2" thickness only bevelled for 1" thickness only	Fabric or 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.	Acoustical Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) medium density core with a fabric or vinyl finish. Fabric corners are fully tailored (no exposed darting) and vinyl corners are heat sealed.	1/2" (13 mm)	0.50	0.60 psf (2.93 kg/m ²)
				3/4" (19 mm)	0.70	0.74 psf (3.61 kg/m ²)
				1" (25 mm)	0.85	0.88 psf (4.30 kg/m ²)
				1-1/2" (38 mm)	0.95	1.19 psf (5.81 kg/m ²)
				2" (50 mm)	1.05	1.51 psf (7.37 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.