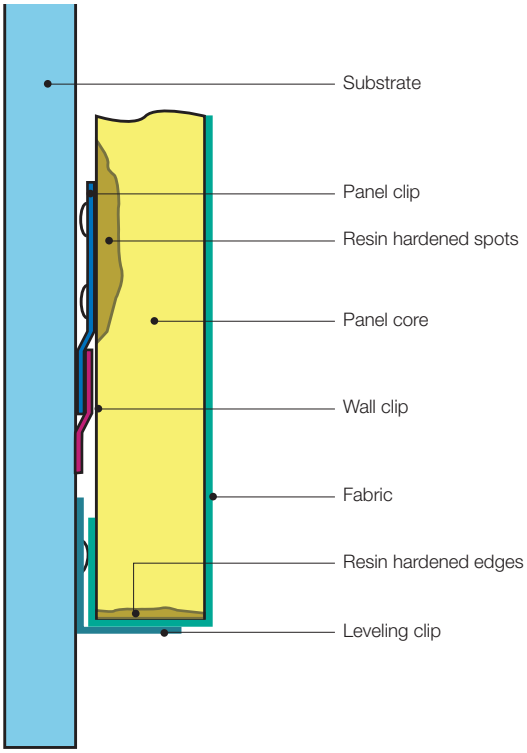
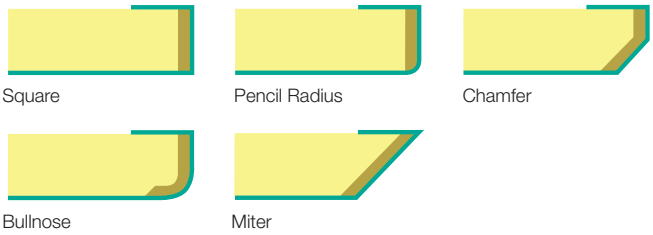
Acoustical Wall Panel (AP)



Resined Edges



Metal Edges

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

DESIGN AND SPECIFICATIONS

Description

An Acoustical Panel (AP) is a general purpose wall panel consisting of a medium density core with a fabric finish. Panels are recommended for use where they are unlikely to be subjected to abuse or impact. For these types of areas see Decoustics' High Impact Resistant panels.

Panels are supplied complete with factory installed clips 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, shapes, thicknesses and finishes.

Decoustics panels can be finished with fabric from almost any manufacturer. Prior to use, Decoustics will test all fabric for suitability.

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.

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	THICKNESS	NRC	WEIGHT
Fabric	**Resin:** - square - bevelled - radiused - stepped **Concealed Extruded Aluminum:** - square - bevelled	Fabric: up to 48" x 120" (1220mm x 3050mm). Finish width must be sufficient to cover panel, panel thickness, and wrap a minimum of 1" (25mm) on the back side.	Acoustical Panel consists of a 6 to 7 pcf (96 to 112 kg/m^3) medium density core with a fabric finish. Fabric corners are fully tailored (no exposed darting).	3/4" (19mm) 1" (25mm) 1-1/2" (38mm) 2" (50mm)	0.70 0.85 0.95 1.10	0.74 psf (3.61 kg/m^2) 0.88 psf (4.30 kg/m^2) 1.19 psf (5.81 kg/m^2) 1.51 psf (7.37 kg/m^2)

* Butt joint is available in 1" and 2" thick panels, defined joint is available in 1", 1-1/2" and 2" thick panels, belvelled is available for 1" thick panel.

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

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.

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	3/4" (19mm)	0.03	0.20	0.52	0.90	1.09	1.03	0.70	0.66
Fabric	1" (25mm)	0.35	0.41	0.84	1.09	1.09	1.02	0.85	0.84
Fabric	1-1/2" (38mm)	0.16	0.58	1.02	1.19	1.10	1.05	0.95	0.95
Fabric	2" (50mm)	0.19	0.87	1.20	1.19	1.08	1.03	1.10	1.05

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

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Code No. CTC-DC-0715-3000-3