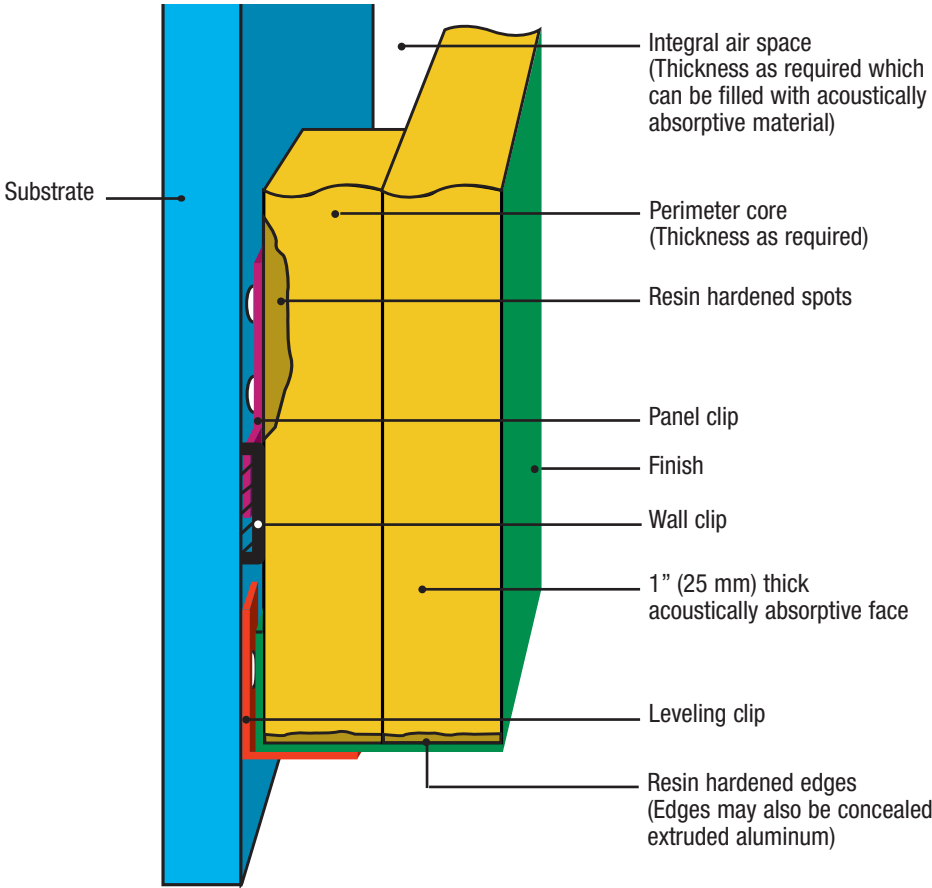


Walls

Integral Air Space

I.A.S.



Description

Decoustics Integral Air Space panels for walls consist of a medium density acoustical core with a perimeter furring strip surround laminated to the back of the panel and a finish.

The air space created by the furring may be left empty, or alternatively, filled with a light density core to achieve greater sound absorption in some cases.

Panels are available in thicknesses - 2" (50 mm) to 4" (100 mm) - and supplied complete with factory installed mounting hardware for mechanical fastening.

Panels

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

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.

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	2" (50 mm) overall thickness consisting of 1" (25 mm) panel with 1" (25 mm) air space	0.05	0.43	1.01	1.19	1.12	1.09	0.95	0.95
* Fabric	2" (50 mm) overall thickness consisting of 1" (25 mm) panel with 1" (25 mm) light density acoustical fill	0.19	0.77	1.09	1.18	1.15	1.11	1.05	1.04
* Fabric	4" (100 mm) overall thickness consisting of 2" (50 mm) panel with 2" (50 mm) air space	0.56	1.17	1.30	1.28	1.18	1.13	1.25	1.20
* Fabric	4" (100 mm) overall thickness consisting of 2" (50 mm) panel with 2" (50 mm) light density acoustical fill	0.79	1.33	1.29	1.27	1.17	1.19	1.25	1.23

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

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Maintenance

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

Related Data

Decoustics 3-Part Guide Specification.

Mounting Methods

Mount panels using mechanical fastening only (utilizing slide and engage z-clips, wall clips and/or wall track). If necessary, shim panels to ensure flat substrate without undue stress at clip locations. 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. Field cutting of panels is not recommended.

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT
Fabric or Vinyl	Resin: square; bevelled; radiused.	Fabric or vinyl: Up to 48" x 120" (1220 mm x 3050 mm).	Panel consists of 6 to 7 pcf (96 to 112 kg/m ³) core with a perimeter furring strip surround on the back side and a fabric or vinyl finish. Fabric corners are fully tailored (no exposed darting) and vinyl corners are heat sealed. Voids in panel back can be left as empty airspace or alternatively filled with a 1 to 3 pcf (16 to 48 kg/m ³) light density fill.	2" (50 mm) Overall	See Standards, Tests and Approvals	1.02 psf (4.98 kg/m ²) with air space only (no fill)
	Aluminum: square Available with 2"(50 mm) overall only.	Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side.		4" (100 mm) Overall		1.80 psf (8.79 kg/m ²) with air space only (no fill)

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.