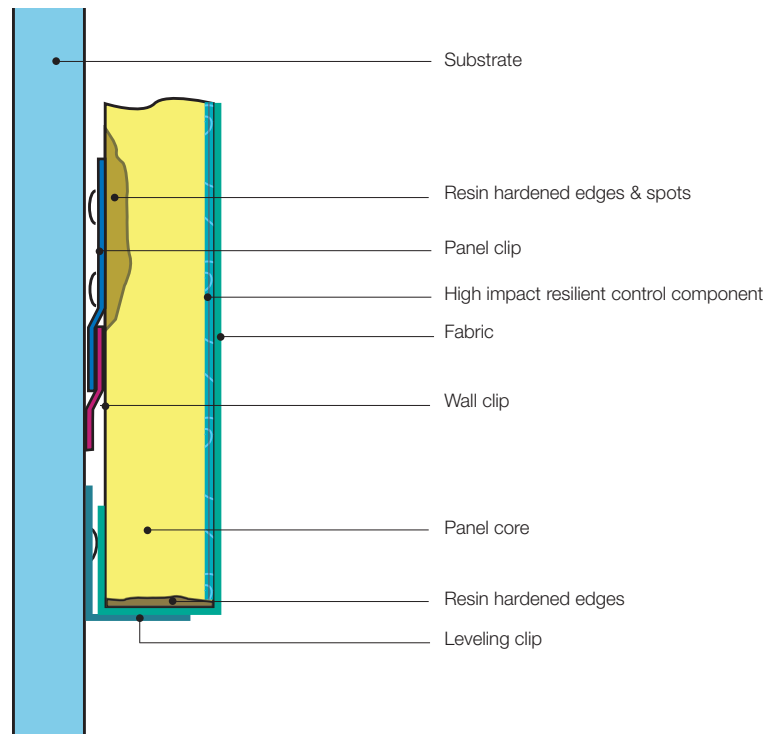


High Impact Resilient Wall Panel (H.I.R. #2)



DESIGN AND SPECIFICATIONS

Description

Decoustics High Impact Resilient (H.I.R.#2) acoustical wall panel consists of a medium density acoustical core, impact resilient component veil (bonded to the core) and fabric finish. The veil provides superior impact resistance and allows the fabric finish to return to its original position after impact.

The panel is capable of withstanding high impact without crushing or fracturing.

Panels are supplied with concealed factory installed mounting hardware.

Panels

All Decoustics H.I.R. #2 panels are custom fabricated and offered in a variety of sizes, geometric shapes, and thicknesses.

Design Considerations

A concealed aluminum edge is required for oversize panels and certain applications.

Contact Decoustics for data.

Panels are available in fabric finish only (no vinyl).

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.

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Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT
Fabric	Resin: - square	Up to 60" x 120" (1525 mm x 3050 mm).	Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) density core, with an impact resilient component facer. Fabric corners are fully tailored (no exposed darting).	1" (25 mm)	0.80	0.88 psf (4.30 kg/m ²)
	Concealed Extruded Aluminum: - square*	Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side.		1-1/2" (38 mm)	1.00	1.19 psf (5.81 kg/m ²)
				2" (50 mm)	1.05	1.51 psf (7.37 kg/m ²)
* Butt joint for 1" and 2" thick panels, Defined joint for 1", 1-1/2 and 2" thick panels. Bevelled for 1"						

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 using mechanical fastening only (includes slide and engage z-clips, wall clips and/or track). 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.

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" (25mm)	0.08	0.32	0.73	1.04	1.13	1.01	0.80	0.79
Fabric	1-1/2" (38mm)	0.11	0.60	1.09	1.19	1.08	1.01	1.00	0.97
Fabric	2" (50mm)	0.47	0.98	1.13	1.14	1.05	0.94	1.05	1.03

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



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