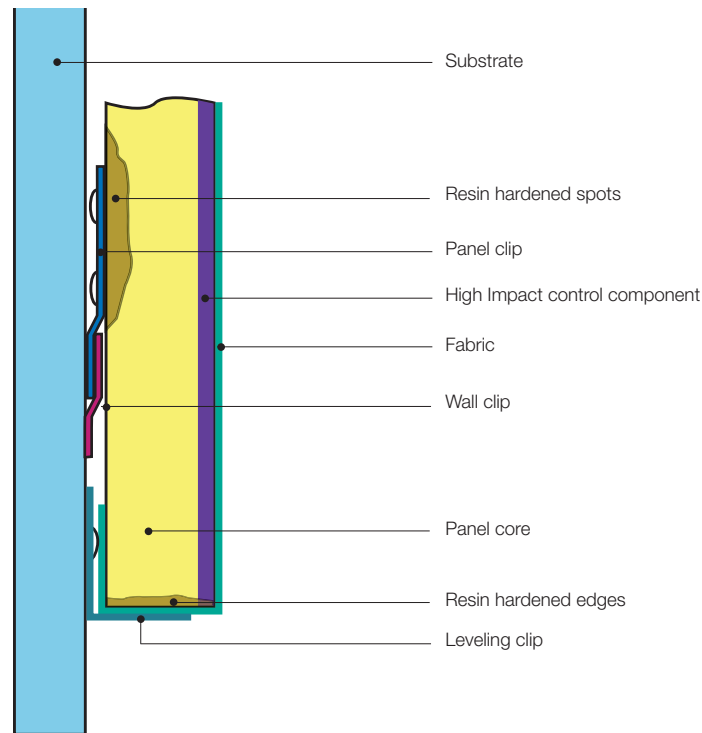


High Impact Extreme Wall Panel (H.I.R. #4)



DESIGN AND SPECIFICATIONS

Description

Decoustics High Impact Extreme (H.I.R. #4) acoustical wall panel consists of a medium density core, high impact control component (bonded to the core) and fabric finish which can be stretched over or bonded to the core.

The non p.v.c. high impact control component provides superior impact resistance and allows the fabric finish to retain its original position after impact.

The panel is ideal for areas with high traffic and sporting facilities as it withstands physical contact to a degree.

Panels are supplied with concealed factory installed mounting hardware.

Panels

Decoustics H.I.R. #4 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 fabrics including most polyesters,

olefins, polyolefins and polypropylenes. For good acoustical absorption, unbacked fabrics should be specified.

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): H.I.R. #4 has a composite Class A rating.

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 Concealed extruded aluminum: - square (defined)	Up to 48 x 120" (1220mm x 3050mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25mm) on backside.	Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) medium density core, with a high impact control component. Fabric corners are fully tailored (no exposed darting).	1" (25mm)	0.85	0.90 psf (4.40 kg/m ²) for a 1" (25mm) thick panel.
				1-1/2" (38mm)	1.00	
				2" (50mm)	1.05	

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.



No other acoustical panel combines aesthetics, exceptional acoustical performance, and abuse resistance.



H.I.R. #4 is a Class A composite construction allowing application in any interior space.

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)	0.12	0.29	0.84	1.14	1.08	0.90	0.85	0.83
Fabric	1-1/2" (38mm)	0.16	0.75	1.10	1.10	1.00	0.84	1.00	0.97
Fabric	2" (50mm)	0.36	0.88	1.20	1.11	1.06	0.89	1.05	1.06

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



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