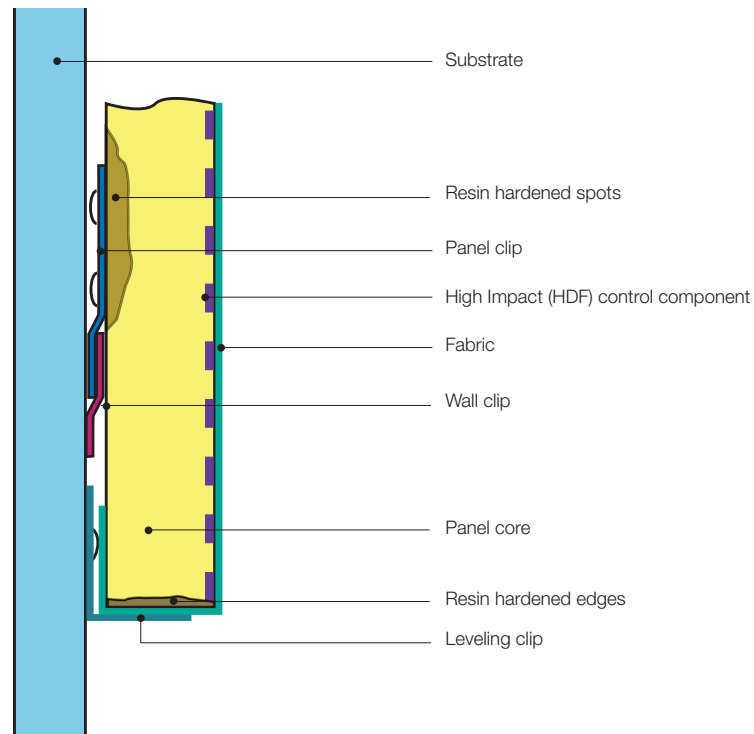


High Impact Resistant/Tackable Wall Panel (H.I.R. #1)



DESIGN AND SPECIFICATIONS

Description

Decoustics High Impact Resistant/Tackable (H.I.R. #1) acoustic panel consists of a medium density core with a high density veil. The panel has high impact resistance and a smooth finish which is ideal for the application of lightweight, thin or "low texture" fabrics which traditionally cannot be stretch-applied. This panel construction is also ideal as a tack surface.

Panels are supplied complete with factory installed hardware for different types of mounting e.g. mechanical, adhesive, magnetic, and hook and loop fastener.

Panels

All H.I.R. #1 panels are custom fabricated and offered in a variety of sizes, geometric shapes, curves, thicknesses, and finishes.

Design Considerations

Concealed aluminum edge is required for oversize panels and certain curved applications. Contact Decoustics for further information.

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 - bullnose - chamfer - pencil radius - miter - reveal Concealed Extruded Aluminum: - square * | Up to 60" x 120" (1525mm x 3050mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25mm) on back side. | Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) core with a 1/8" (3mm) thick 16 to 20 pcf (256 to 320 kg/m ³) high density acoustically transparent face. Fabric corners are fully tailored (no exposed darting). | 5/8" ** (16mm) | 0.70 | 0.90 psf (4.50 kg/m ²) |
| | | | | 7/8" (22mm) | 0.75 | 1.0 psf (4.90 kg/m ²) |
| | | | | 1-1/8" (28mm) | 0.90 | 1.2 psf (5.86 kg/m ²) |
| | | | | 1-5/8" (41mm) | 1.00 | 1.45 psf (7.10 kg/m ²) |
| | | | | 2-1/8" (54mm) | 1.05 | 1.75 psf (8.55 kg/m ²) |
| * Butt joint for 1-1/8" and 2-1/8" thick panels, Defined joint for 1-1/8", 1-5/8" and 2-1/8" thick panels. **Adhesive mount is only recommended for 5/8" (16mm) thick panels. | | | | | | |

Mounting Methods

Mount panels to walls using mechanical fastening, adhesive, magnetic fastening or hook and loop fasteners.

Mechanically mount only for panels located above head height (includes slide and engage z-clips, wall clips and/ or track).

Installer shall provide for shimming and adjustments as required to maintain consistent alignment of joints and of finished panel faces, and to ensure unstressed clip / fastening locations.

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.

For panels 1 5/8" and 2 1/8" thick, mechanical mounting is required.

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 | 5/8" (16mm) | 0.07 | 0.27 | 0.59 | 0.94 | 1.05 | 0.93 | 0.70 | 0.70 |
| Fabric | 7/8" (22mm) | 0.01 | 0.25 | 0.71 | 1.02 | 1.11 | 1.00 | 0.75 | 0.78 |
| Fabric | 1-1/8" (28mm) | 0.10 | 0.47 | 0.91 | 1.09 | 1.08 | 0.97 | 0.90 | 0.87 |
| Fabric | 1-5/8" (41mm) | 0.25 | 0.67 | 1.10 | 1.12 | 1.05 | 0.98 | 1.00 | 1.00 |
| Fabric | 2-1/8" (54mm) | 0.43 | 0.94 | 1.16 | 1.13 | 1.04 | 1.01 | 1.05 | 1.04 |

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

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.



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