



DESIGN AND SPECIFICATIONS

Description

Decoustics Reflective acoustical wall and ceiling panels are special purpose panels that provide reflected sound where this acoustical feature is desired.

Panel faces are finished with fabric or Claro. In rooms or areas where both absorptive and reflective panels are required, panels will look identical.

Reflective panels are supplied complete with factory installed mounting frames and devices for different types of mounting e.g. slide and engage z-clips secured to clips or continuous wall or ceiling track.

Panels

All Decoustics panels are custom fabricated and offered in a variety of sizes, geometric shapes, edge profiles, and finishes. Panels are currently only available flat.

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.

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.

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.

Mounting Methods

Refer to wall and ceilings sections for appropriate mechanical mounting methods.

Related Data

Decoustics 3-Part Guide Specification.

Decoustics Reflective Panel (REF-V)

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC
Fabric	Resin: - Square - Bevelled - Radiused	Fabric: Up to 48" x 120" (1220 mm x 3050 mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25 mm) on back side.	Acoustical Panel with Reflective Facer - REF-V Consists of a 6 to 7 pcf (96 to 112 kg/m3) core with a reflective facer fused to it. Fabric covered face and edges.	3/4" (19 mm) 1" (25 mm) 1-1/2" (38 mm) 2" (50 mm)	See Acoustical Data
Claro	Coated Extruded Aluminum Edge	Claro finish: Up to 60" x 120" (1525 mm x 3050 mm). Consult Decoustics larger size availability for specific applications	Acoustical Panel with Reflective Facer - REF-V Consists of a 6 to 7 pcf (96 to 112 kg/m3) core with a reflective facer fused to it. Claro finish covered face and edges.	1-1/16" (27 mm) 1-9/16" (40 mm) 2-1/16" (52 mm)	See Acoustical Data

Acoustical Data (ASTM C423: Mounting as per ASTM E795).

FINISH	PANEL THICKNESS	FREQUENCY (Hz)						NRC	SAA
		125	250	500	1000	2000	4000		
Type F5 Mounting									
Fabric	1" (25 mm) Panel	0.42	0.37	0.38	0.25	0.19	0.19	0.30	0.33
Claro	1" (25 mm) Panel	0.12	0.09	0.48	0.18	0.19	0.27	0.25	0.25
Type E400 Mounting									
Fabric	1" (25 mm) Panel	0.27	0.23	0.29	0.20	0.18	0.13	0.20	0.26
Claro	1" (25 mm) Panel	0.21	0.25	0.16	0.41	0.27	0.30	0.25	0.24

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



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Code No. Reflective Panel_DATASHEET

