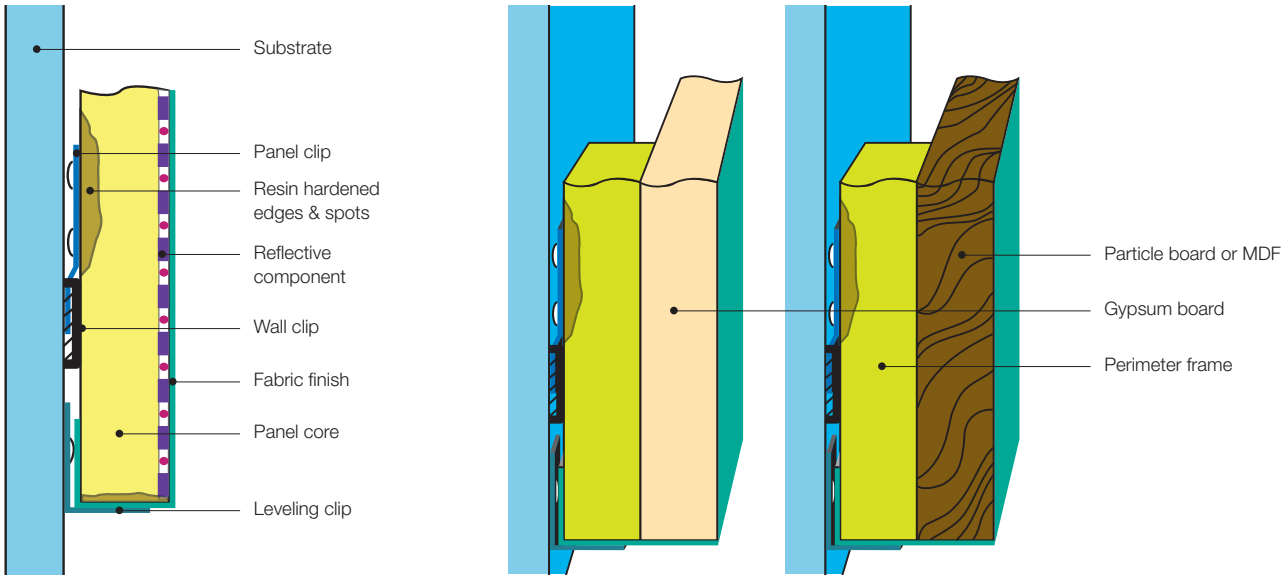
Reflective Wall and Ceiling Panel



Refective Veil **Gypsum** **Wood**

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. There are three different core materials to choose from depending upon the application and the amount of sound reflection required i.e. gypsum board, fire retardant particle board and a Decoustics panel with a reflective viel.

Panel faces are finished with fabric

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 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.

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.

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT
Fabric	- Square (Butt and Defined) - Bevelled	Fabric: Up to 48" x 120" (1220mm x 3050mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25mm) on back side.	**Fire Retardant Particle Board or MDF:** Consists of a 1/2" (13mm) thickness particle board or MDF secured and braced to a concealed, wood frame. Fabric to cover the face and edges.	1" (25mm) 1-1/2" (38mm) 2" (50mm)	See Standards, Tests and Approvals	3.2 psf (15.6 kg/m^2) 3.40 psf (16.6 kg/m^2) 3.60 psf (17.57 kg/m^2)
Fabric	- Square	Fabric: Up to 48" x 120" (1220mm x 3050mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25mm) on back side.	**Gypsum Board:** Consists of a 1/2" (13mm) thickness gypsum board secured and braced to a concealed satin coated steel and wood frame. Fabric to covered face and edges.	1" (25mm) 1-1/2" (38mm) 2" (50mm)		3.10 psf (15.13 kg/m^2) 3.30 psf (16.10 kg/m^2) 3.5 psf (17.08 kg/m^2)
Fabric	**Resin:** - Square - Bevelled - Radiused **Concealed Extruded Aluminum:** Square; (butt and defined), Bevelled butt for 1" & 2" thickness only defined for 1", 1-1/2" & 2" thickness only bevelled for 1"	Fabric: Up to 48" x 120" (1220mm x 3050mm). Finish width must be sufficient to cover panel, panel thickness, and wrap minimum 1" (25mm) on back side.	**Acoustical Panel with Reflective Veil:** Consists of a 6 to 7 pcf (96 to 112 kg/m^3) core with a reflective facer fused to it. Fabric to covered face and edges.	3/4" (19mm) 1" (25mm) 1-1/2" (38mm) 2" (50mm)		0.85 psf (4.15 kg/m^2) 1.0 psf (4.88 kg/m^2) 1.05 psf (5.13 kg/m^2) 1.15 psf (5.62 kg/m^2)

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

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

Acoustical Data (ASTM C423: Type F5 and E400 Mounting as per ASTM E795).

PANEL TYPE	FINISH	FREQUENCY (Hz) 125	250	500	1000	2000	4000	NRC	SAA
Acoustical core with reflective veil, 1" (25mm) overall thickness, Type F5 mounting									
	Fabric	0.27	0.34	0.16	0.27	0.20	0.17	0.25	0.28
Acoustical core with reflective veil , 1" (25mm) overall thickness, Type E400 mounting									
	Fabric	0.25	0.25	0.15	0.28	0.17	0.30	0.20	0.22
Gypsum board, 1" (25mm) overall thickness, Type F5 mounting									
	Fabric	0.18	0.28	0.09	0.10	0.22	0.23	0.15	0.15
Fire retardent partical board or MDF, 1" (25mm) overall thickness, Type F5 mounting									
	Fabric	0.11	0.20	0.09	0.09	0.21	0.26	0.15	

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