Acoustical Fabric Wrapped Panels Featuring AirRenew®

DESIGN AND SPECIFICATIONS

Description

Decoustics' acoustical fabric wrapped wall and ceiling panels featuring AirRenew fabric technology consist of AirRenew fabric stretched or bonded over a no-added urea formaldehyde fiberglass core. Panels are supplied with factory installed devices for different types of mounting such as mechanical, adhesive, magnetic or hook and loop fastenings.

AirRenew Fabric Technology

AirRenew fabric contains silver ions which use a catalytic process to transform VOCs and numerous odors into harmless, natural substances. When VOCs or odor molecules come into contact with Decoustics fabric panel featuring AirRenew they are broken down and rendered harmless. An added antibacterial feature helps to prevent the spread of common germs.

Decoustics fabric wrapped panels featuring AirRenew use specifically active fibers to prevent the spread and colonization of bacteria that may cause discoloration, odor or deterioration of the panels.

The silver ions within the fabric control the growth of bacteria. The bacteria is killed off and decomposed by the cell physiology, helping to stop the enzymatic process.

Features and Advantages

- Safely converts VOCs into carbon dioxide (CO_2) and water vapor which evaporate into the air
- Breaks down pollutants and odors
- Provides protection against the growth and transmission of bacteria that comes into contact with the panel (bacteria that may damage, discolor or create odor on the panel will not be able to spread).
- Panel construction provides sound absorption for improved room acoustics
- Ideal for use in schools, hospitals, nursing homes and offices
- Class A flame spread (less than 25) when tested in accordance with ASTM E84

Wall Mounting Methods

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

Mechanically mount only for panels located above head height (includes slide and engage z-clips, wall clips and/or track). Use adhesive and mechanical fastening to secure "loop" to wall i.e. stapled with splayed-outward legs. Consult with Decoustics 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. Follow manufacturer's printed instructions for installation as well as for field cutting of panels.

Ceiling Mounting Methods

Compatible with most Decoustics ceiling suspension systems.*

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.

Test Results: Environmental Chamber

	GREENGUARD TVOC (mg/m³)	CHILDREN AND SCHOOLS TVOC (mg/m³)	GREENGUARD FORMALDEHYDE (ppm)	CHILDREN AND SCHOOLS FORMALDEHYDE (ppm)
Criteria	≤0.5	≤0.22	≤0.05	≤0.0135
Meets Criteria	✓	✓	✓	✓
Result	0.2	0.082	0.006	0.003

Finished panels tested in accordance with ASTM D 5116, analyses based on ASTM D 6196 and ASTM D 5197

AirRenew®	Pre-Consumer Content	Post-Consumer Content	Recycled Content
AP 1"	0%	37%	37%

* *Claro-T, Nuvola and HCC not included in suspension systems*

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Performance Data

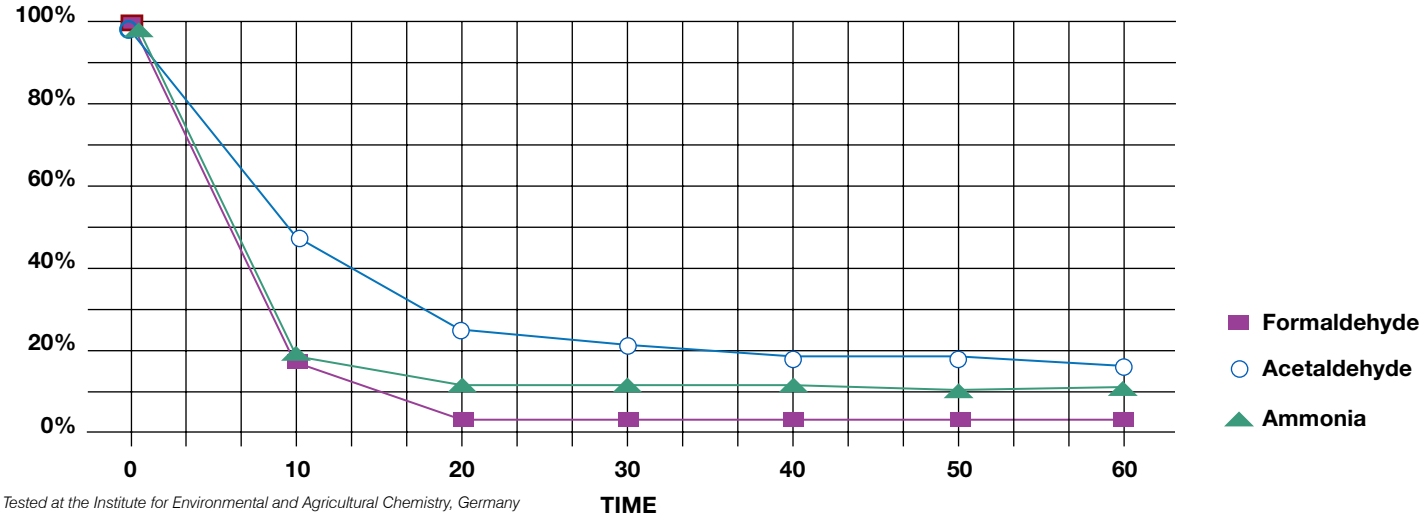
FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT
AirRenew	Resin: square, bevelled, radiused, stepped Concealed Extruded Aluminum: square *(defined), bevelled) defined for 1",1-1/2" & 2" thickness only bevelled for 1" thickness only	Up to 48" x 120" (1220mm x 3050mm) Fabric width must be sufficient 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) medium density formaldehyde free core with an AirRenew® fabric finish. Fabric corners are fully tailored (no exposed darting).	3/4" (19mm) 1" (25mm) 1-1/2" (38mm) 2" (50mm)	0.70 0.85 0.95 1.05	0.74 psf (3.61 kg/m^2) 0.88 psf (4.30 kg/m^2) 1.19 psf (5.81 kg/m^2) 1.51 psf (7.37 kg/m^2)

Values based on Decoustics standard AP panel. For further information on other panel types please refer to the appropriate data sheets found at decoustics.com

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

PANEL TYPE	FINISH	PANEL THICKNESS	FREQUENCY (Hz) 125	250	500	1000	2000	4000	NRC	SAA
Acoustical Panel (AP)	AirRenew	1" (25mm)	0.03	0.37	0.89	1.10	1.09	1.05	0.85	0.87
High Impact Resistant / Tackable (H.I.R. #1)	AirRenew	1-1/8" (28mm)	0.17	0.60	1.00	1.08	0.93	0.82	0.90	0.89
High Impact Resilient (H.I.R. #2)	AirRenew	1-1/2" (38mm)	0.15	0.58	1.01	1.13	1.10	1.03	0.90	
High Impact Extreme (H.I.R. #4)	AirRenew	1" (25mm)	0.07	0.37	0.90	1.07	0.99	0.91	0.85	0.84
Appliqué (APQ)	AirRenew	1-1/8" (28mm)	0.17	0.60	1.00	1.08	0.93	0.82	0.90	0.89

Test Results: Acetaldehyde, Ammonia and Formaldehyde



Tested at the Institute for Environmental and Agricultural Chemistry, Germany

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