

Soundscreen™ Acoustical Ceiling and Wall Baffles

a McGill AirSilence™ product

United McGill® products



Soundscreen ACWB baffles

These suspended ACWB baffles offer excellent noise reduction. They are moisture resistant and environmentally safe.

McGill AirSilence's Soundscreen acoustical ceiling and wall baffle (ACWB) is a scrim-wrapped, highly efficient, tuned baffle designed for mid to low frequency noise absorption. The ACWB consists of a semi-rigid fiberglass core completely encapsulated within a 2-mil-thick, reinforced foil/polypropylene cover.

The ACWB is available in standard sizes up to 4 feet by 8 feet, and in thicknesses of 1 inch (ACWB-1) and 2 inches (ACWB-2). NRCs are 0.75 and 0.94, respectively, when tested in a number 4 mounting (direct mounted). The ACWB has flame spread and smoke developed ratings of 5 each making them suitable for applications requiring low flame and smoke emissions.

These board-like baffles provide good structural integrity and are damage resistant. They can be used in temperatures ranging from -40°F to 450°F.

Applications

- Wall-mounted baffles
- Ceiling-suspended baffles
- Excellent alternative to drop-in ceiling tiles
- In-plant ambient noise reduction
- Manufacturing facilities
- Gymnasiums

Features

- NRC up to 0.94
- Easy to install
- Tuned for low to mid frequencies
- Wide temperature range
- Durable
- Environmentally safe
- Fire safe
- Easy to clean
- Moisture resistant
- Custom designs available

Acoustical Performance

Model	Sound Absorption Coefficients (#4 Mounting)/Center Frequency (Hz)						NRC
	125	250	500	1K	2K	4K	
ACWB-1	0.13	0.32	0.95	1.08	0.62	0.46	0.75
ACWB-2	0.26	0.80	1.23	1.00	0.71	0.43	0.94

Physical Properties

Product	Weight (lb/sq ft)	Thickness (in)	Service Temp. (°F)	Permeance (MVTR)	Puncture Resistance Beach	Tensile Strength (PSI)
ACWB-1	1.5	1 or 2	-40 to +450	0.02 (ASTM E-96) Dry Cup, Proc. A Perms. Max.	100 (ASTM D-781) Units Min.	40 (ASTM D-828)

Flammability Properties

ACWB-1	E-84 Surface Burning Characteristics of Building Materials: Meets Class A Rating: Flame Spread Index = 5 Smoke Density Index = 5
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Environmental Testing

Weather Resistance	No corrosion or delaminating at 120°F, 95% relative humidity for 30 days.
Temperature Resistance	Laminate withstands 4 hours at 150°F without delaminating
Water Resistance	Withstands 24 hours water immersion at 70°F without delaminating
Cold Weather Flexibility	At -40°F passes with no cracking of the polypropylene surface (ASTM D-1790)
Dimensional Stability	A.D. ± 0.125%, M.D. ± 0.125%

Products depicted in this brochure were current at the time of publication. As a quality-conscious manufacturer, McGill AirSilence is continually seeking ways to improve its products to better serve its customers. Therefore, all designs, specifications, and product features are subject to change without notice.

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McGill AirSilence LLC

An enterprise of United McGill Corporation — Founded in 1951

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