



ACOUSTIC WOOD

MICROPERFORATED BAFFLES

MCPB



DATA SHEET



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PRODUCT DESCRIPTION

Baffles are vertically hung panels available in custom sizes and spacing. Natural wood veneer is laminated to Fire-Rated MDF. Only after lamination is the face microperforated with 0.5mm (1/50”) perforations and the rear perforated with 9mm (3/8”) for acoustical performance. This eliminates the risk of delamination or hole clogging common to panels that are laminated after perforation. The hollow core of the baffle is filled with NAUF Medium Density Fiberglass to improve acoustic performance. Baffles come standard with factory-mounted hardware for easy suspension with hanger wire. They can also be mounted directly to a strut channel.

FEATURES

DIMENSIONS: Width: The standard width of a baffle is 50mm (2”) but custom sizes are common. Baffles under 40mm (1.5”) wide will have reduced acoustical performance.

Height: Baffles come in standard size between 75mm (3”) and 305mm (12”). Other heights are also available.

Length: The maximum length of a single baffle is 3m (10’). Individual baffles can be joined to create baffles longer than 3m.

VENEERS: The Acoustic Baffles can be customized in a variety of wood veneers. MCM Acoustical lays-up its own veneer random matched.

FINISHES: The Acoustic Baffles can be finished in standard clear lacquer or can be custom stained to match a control sample. The Acoustic Baffles can also be painted.

SUSTAINABILITY

FSC Certified 70.8% pre-consumer recycled content Declare label CDPH VOC Certified

FIRE PERFORMANCE

The Acoustical Baffles are Class A Fire-Rated interior wood finish products as per ASTM E84 and are tested in an accredited NVLAP test facility as a finished composite product using Class A individual components.

INDOOR AIR QUALITY

The Acoustic Baffles are certified Clean Air Gold and meet the CDPH Standard VOC emissions.

ACCLIMATIZATION

Like any other architectural natural wood product, the Acoustic Baffles are to be acclimatized inside a controlled interior environment for at least 72 hours before installation. During storage, prior to installation, during installation, and after installation the relative humidity level of 35%-55% and a temperature range of 20°-27°C (68°-81°F) must be maintained.

ACOUSTIC PERFORMANCE

The microperforated face of the Acoustic Baffle has an NRC of up to 1.05 NRC, while overall acoustical performance will depend on the size of the baffles and the spacing between them.

SOUND ABSORPTION

Number in the mounting designation is the airspace behind/above the panel in millimeters.

Mounting	Backing	Frequency (HZ)						NRC	SAA
		125	250	500	1000	2000	4000		
Type E400 (15 3/4”)	N/A	0.89	0.89	0.66	0.67	0.68	0.66	0.75	0.75
	1” Thick FG*	0.73	0.78	0.83	0.98	0.87	0.70	0.85	0.87
	2” Thick FG*	0.81	0.79	1.01	0.98	0.85	0.68	0.90	0.89
Type F50 (2”)	2” Thick FG*	0.74	1.03	1.02	0.90	0.83	0.67	0.95	0.95
Type F25 (1”)	N/A	0.02	0.13	0.36	0.85	0.77	0.46	0.55	0.52
	1” Thick FG*	0.37	0.65	1.14	0.94	0.80	0.67	0.90	0.89
Type F5 (3/16”)	N/A	0.04	0.07	0.11	0.25	0.86	0.52	0.30	0.31

(*) 6-7 PCF 1” or 2” Fiberglass

NOTE: Woodwork matching this sample may vary in colour, texture, and pattern due to the natural variations in wood grain, tone, and stain acceptance. Samples may not fully represent all possible variations, and lighting conditions can affect the finished product's appearance.