



PERFORATED WOOD

PANELS

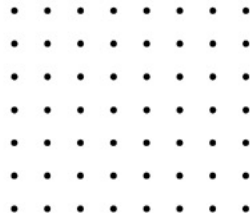
PP

PARALLEL PERFORATION

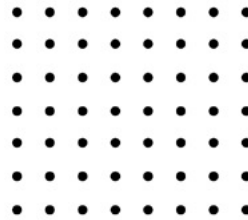
4mm
Parallel PP-P-4-32
1.23% Opening



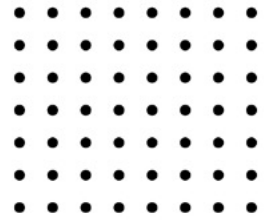
6mm
Parallel PP-P-6-32
2.76% Opening



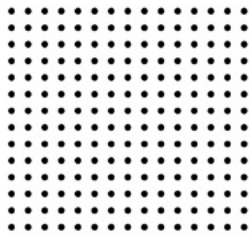
8mm
Parallel PP-P-8-32
4.91% Opening



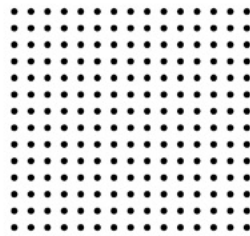
10mm
Parallel PP-P-10-32
7.67% Opening



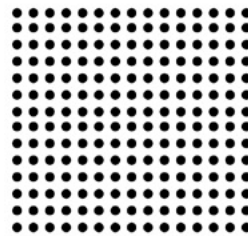
4mm
Parallel PP-P-4-16
4.91% Opening



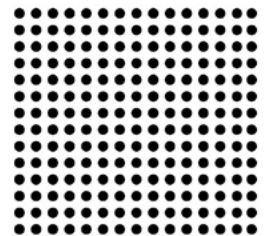
6mm
Parallel PP-P-6-16
11.04% Opening



8mm
Parallel PP-P-8-16
19.63% Opening



10mm
Parallel PP-P-10-16
30.66% Opening



STAGGERED PERFORATION

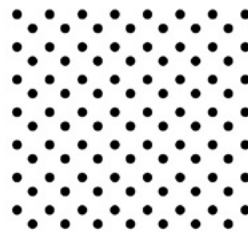
4mm
Staggered PP-S-4-32
2.32% Opening



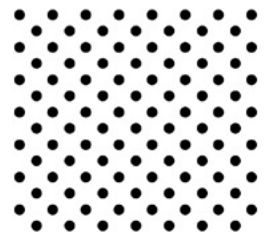
6mm
Staggered PP-S-6-32
5.17% Opening



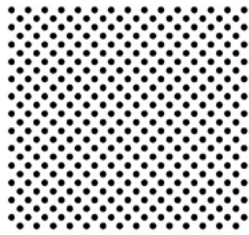
8mm
Staggered PP-S-8-32
9.20% Opening



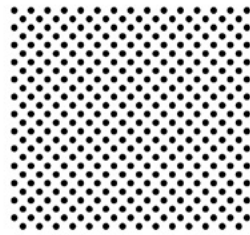
10mm
Staggered PP-S-10-32
14.37% Opening



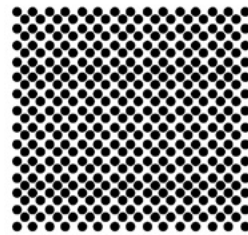
4mm
Staggered PP-S-4-16
8.50% Opening



6mm
Staggered PP-S-6-16
22.08% Opening



8mm
Staggered PP-S-8-16
39.25% Opening



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PRODUCT DESCRIPTION

MCM Acoustical's Perforated Wood Panels feature a natural wood surface complemented by 4, 6, 8, or 10mm parallel or staggered perforations. The standard spacing for these perforations are 16 or 32mm. These panels are designed to provide optimal acoustical performance with standard 5/8" Fire-Rated MDF or 3/4" Fire-Rated plywood for interior core, other thicknesses are also available.

Perf Dimeter	Perf Spacing	Opening for Parallel Perf	Opening for Staggered Perf	Perf Spacing	Opening for Parallel Perf	Opening for Staggered Perf
4	16mm	4.91%	8.50%	32mm	1.23%	2.32%
6		11.04%	22.08%		2.76%	5.71%
8		19.63%	39.25%		4.91%	9.20%
10		30.66%	N/A		7.67%	14.37%

FEATURES

DIMENSIONS: The Panels can be manufactured to the desired size, with shop drawings produced by MCM Acoustical, thereby requiring no field cutting for faster installation.

VENEERS: The Panels can be customized in a variety of wood veneers. MCM Acoustical lays-up its own veneer so slip-matched, book-matched, random or custom matched lay-up choices are available.

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

SUSTAINABILITY

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

FIRE PERFORMANCE

The Perforated Wood Panels 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 Perforated Wood Panels are certified Clean Air Gold and meet the CDPH Standard VOC emissions.

ACCLIMATIZATION

Like any other architectural natural wood product, the Perforated Wood Panels 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 30%-55% and a temperature range of 15.5°C-32°C 30% (60°-90°F) must be maintained.

ACOUSTIC PERFORMANCE

In addition to the perforated face of the panel, the core of the Panels is perforated to improve sound absorption. A black fiberglass mat is laminated to the rear of the product to create an acoustic performance of up to 0.90 NRC. The following test is made for panels with an 8mm diameter hole.

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	0.77	0.93	0.73	0.75	0.75	0.67	0.80	0.79
	1" Thick FG*	0.66	0.81	0.81	0.95	0.92	0.80	0.85	0.86
	2" Thick FG*	0.63	0.74	0.90	0.95	0.93	0.80	0.90	0.87
Type F50 (2")	2" Thick FG*	0.68	0.87	0.94	0.90	0.87	0.72	0.90	0.90
Type F25 (1")	N/A	0.08	0.13	0.35	0.75	0.83	0.48	0.50	0.51
	1" Thick FG*	0.37	0.66	0.98	0.90	0.85	0.72	0.85	0.85
Type F5 (3/16")	N/A	0.06	0.08	0.10	0.17	0.65	0.57	0.25	0.25

(*) 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.