SOUNDPLY®

The World's Quietest, Most Versatile Acoustic Panels.

POLARIS HALL, U.S. AIR FORCE ACADEMY

THE NEXT GENERATION IN THE SCIENCE OF SILENCE

SoundPly® micro-perforated panels represent a breakthrough in a promising new field of acoustic science. SoundPly's unmatched performance, discrete aesthetics, and structural integrity allow for entirely new ways to seamlessly integrate acoustic solutions into any type of environment.

SoundPly panels absorb sound so effectively that, for their thickness, they're the **world's quietest panels.**

UNHEARD-OF PERFORMANCE

The patented technology behind SoundPly's exceptional acoustic performance is the product of exhaustive research in parallel with the development of cutting-edge manufacturing innovations. SoundPly panels are the first single-component acoustic solution to effectively utilize two distinctly different methods of sound absorption – porous and resonant.

Resonant sound absorption occurs at the surface of a SoundPly panel, using millions of tiny holes, called micro-perforations. It's within these micro-perforation's passages that viscous friction occurs between resonating air particles and the passage walls, dissapating sound energy into heat. Porous sound absorption occurs in the panel's core, where sound energy is transformed to heat through both viscous and mechanical damping.

UNCOMPROMISED AESTHETICS

One of the most remarkable features of SoundPly panels is how unremarkable they appear. The appearance of SoundPly panels reveal little of their true acoustic function. From just a few feet away, the small micro-perforations disappear, producing no discernible effect on a panel's overall color or grain structure.

Since SoundPly panels maintain the same dimensions and appearance of non-acoustic panels, they can be seamlessly incorporated into projects similar to non-acoustic panels. SoundPly panels are available in a wide variety of surface options and can be fabricated with specified wood veneers that sequence and blueprint match to adjacent panels, doors and millwork.

STRUCTURALLY SOUND

SoundPly panels are lighter, have better dimensional stability, and are easier to install than nearly all other architectural panels, both acoustic or non-acoustic. SoundPly's light weight is especially well-suited for ceiling applications, where it's significantly lower weight requires less structural support than similar acoustic ceiling solutions.

All of the materials within SoundPly panels have low reactivity to seasonal changes in temperature and humidity, allowing them to hold their shape exceptionally well. This is especially advantageous for horizontal applications since nearly every other acoustic wood panel is built with a fiberboard core which, unless heavily reinforced, will sag (pillow) over time.

U.S. Patent# 9,691,370. Other U.S. & foreign patents pending.

SOUND CONTROL FOR NEW APPLICATIONS

CEILING PLANKS

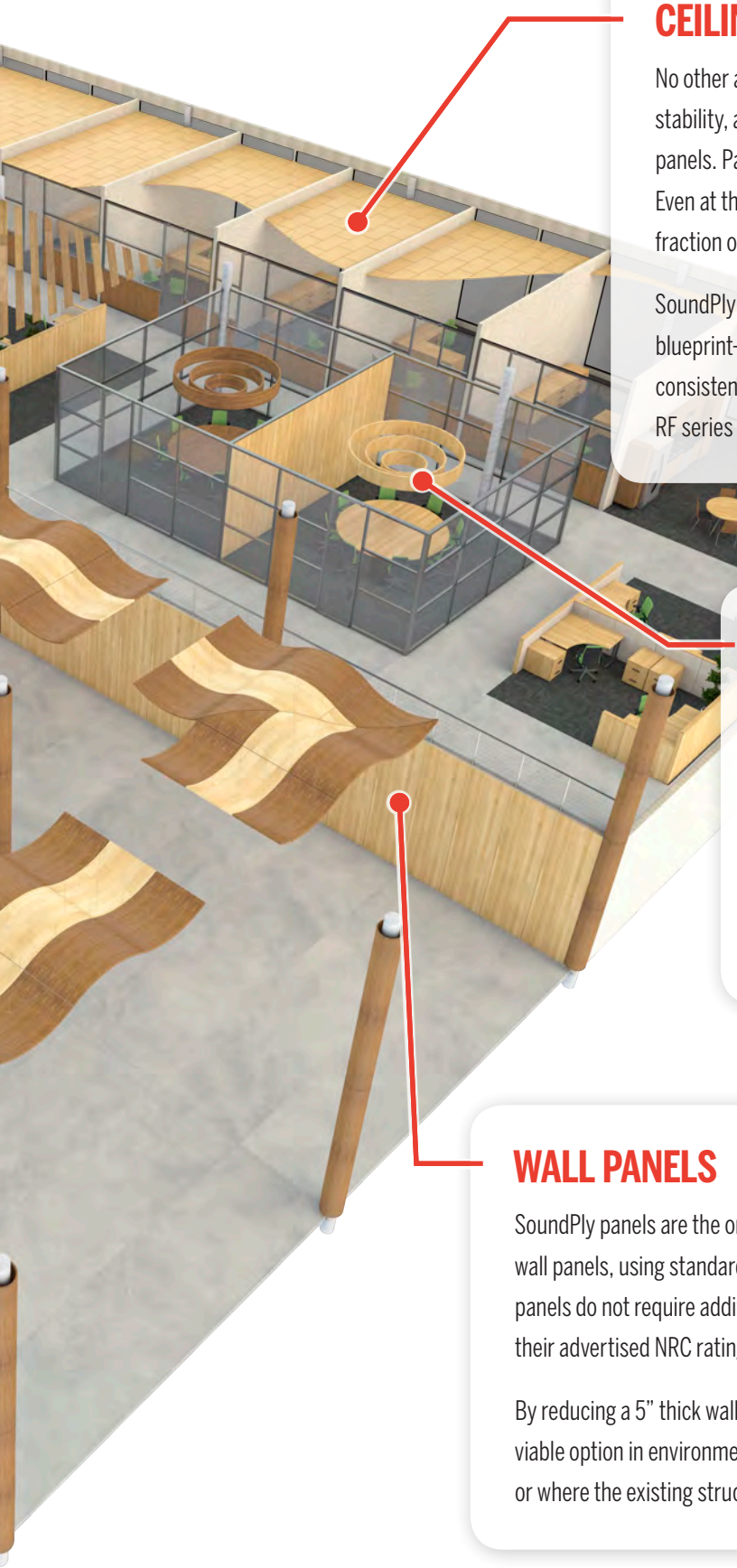
Prior to SoundPly panels, adding acoustical performance to wood ceiling planks required covering the reveals with black fabric and back-loading the entire system with acoustical material—a restrictive and ugly solution.

SoundPly panels allow completely unrestricted design, while providing exceptional (and invisible) acoustic performance. Wood planks can be from 3/4" to 2" thick and in widths up to 12" wide (depending on the wood species). There's also no restriction on reveal widths, allowing for increased natural lighting, more light fixture options, and much more flexible, unique design options.

CEILING CLOUDS

A SoundPly panel's light weight allows for quick installation, while requiring minimal support to suspend a fixture. SoundPly's exceptional rigidity also means that minimal structural bracing is required to prevent the sagging synonymous with acoustic panels having MDF and particleboard cores.

Since the SoundPly LR and RF series panels are fully enclosed, there's no exposed insulation backfill, allowing for cleaner aesthetics and minimal maintenance.



CEILING PANELS

No other acoustic ceiling panels come close to matching the structural stability, acoustic performance or visual variety available with SoundPly panels. Panels are available as large as 5'x12' and in thicknesses up to 2". Even at their maximum sizes, they're surprisingly easy to handle, having a fraction of the weight of any other wood panels—acoustic or non-acoustic.

SoundPly wood ceiling panels can be color-matched, flitch-matched or even blueprint-matched, providing the absolute highest degree of color and grain consistency. For maximum acoustic performance and privacy, the SoundPly RF series provides the industry's highest NRC and CAC ratings.

CEILING BAFFLES

SoundPly panels are much lighter and more structurally stable than solid wood or veneered MDF/particleboard panels. These unique properties make them the ideal choice for ceiling baffles. SoundPly's lighter weight not only provides for a quicker, less expensive installation, they require less mounting hardware and structural reinforcement than any other type of wood panel, acoustic or non-acoustic.

WALL PANELS

SoundPly panels are the only micro-perforated panels that can be hung like traditional wall panels, using standard Z-clips. Unlike other micro-perforated panels, SoundPly panels do not require additional layers of acoustic material and cavity space to achieve their advertised NRC ratings.

By reducing a 5" thick wall fixture into a 1" thick panel, SoundPly panels become a viable option in environments where it is essential to maximize usable square footage, or where the existing structure prevents back-loading of additional acoustic material.

ACOUSTIC PANEL COMPARISON
THEN VS. NOW

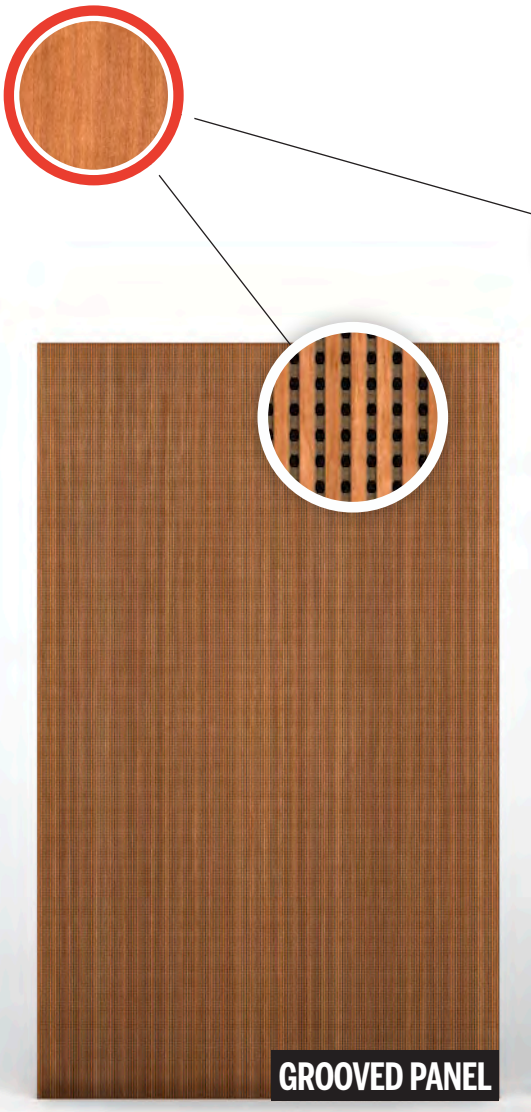
Since the early 1990s, grooved or slotted panels have been a popular choice for architectural acoustic panels. A grooved panel, by itself, provides minimal sound absorption, although they can be used effectively as a visual screen for sound-absorbent materials. Unfortunately, there are limitations to their use.

Within the last 25 years, discoveries in acoustic technology now allow for panels that are lighter, more stable, better performing, and less visually conspicuous. SoundPly panels demonstrate these discoveries, and when compared to the previous technology of grooved acoustic panels, the differences are difficult to ignore.

COMPARE COLOR

Both of these panels are the same wood species.

From a short distance, SoundPly's micro-perforations appear indistinguishable, with no perceivable effect on a wood's color or grain pattern. The shadows and exposed core of the grooved panel create a much darker and less vibrant appearance, usually in sharp contrast to adjacent woodwork.



COMPARE WEIGHT

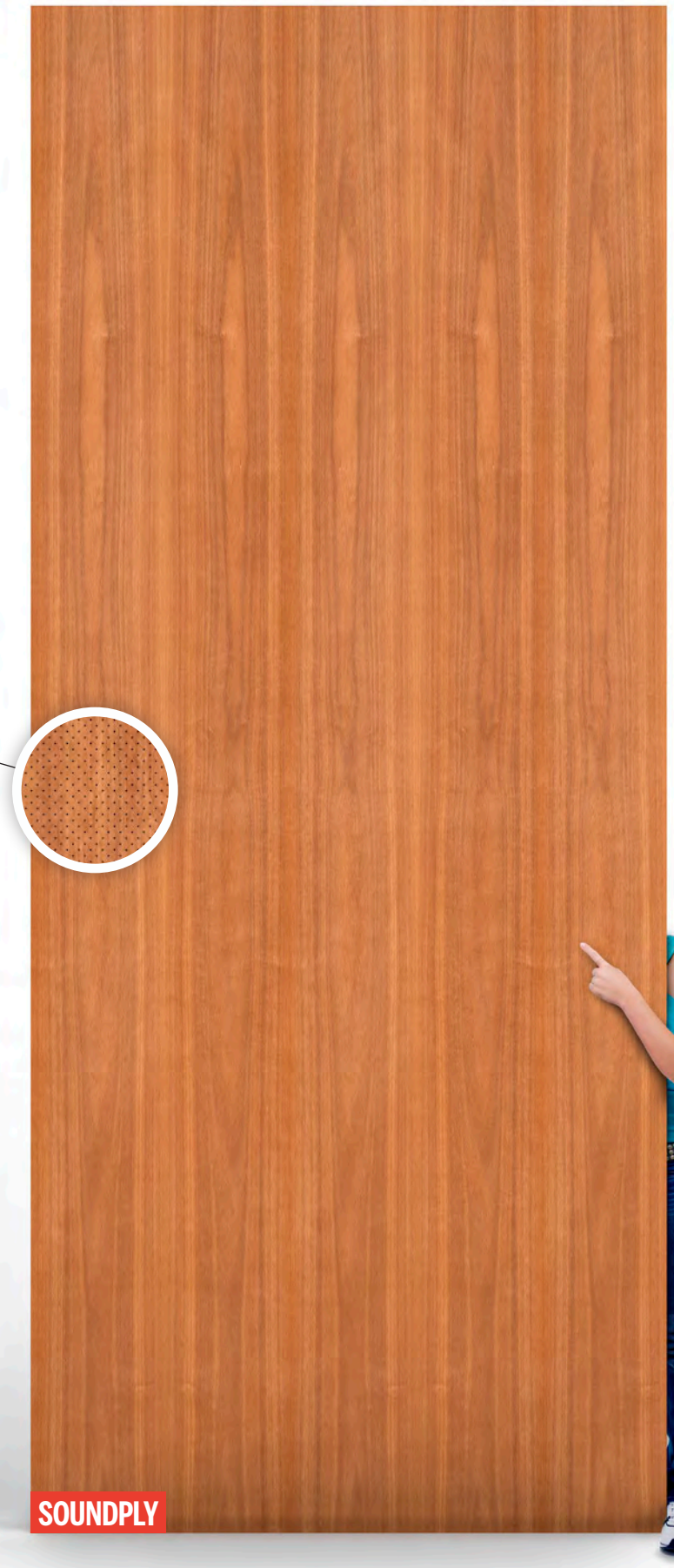
Both of these panels are the same weight.

SoundPly panels weigh 70% less than grooved panels as a result of innovations in construction technology. This equates to a reduction in freight and installation costs, along with a reduction in the structural support requirements for wall and ceiling fixtures.

COMPARE PERFORMANCE

SoundPly panels absorb more sound through a broader range of frequencies.

Even though the SoundPly panel is nearly half the thickness of the grooved panel, it has the same NRC rating (.90) and a slightly higher SAA rating (.89 vs .91).



COMPARE STABILITY

SoundPly panels have over 6 times more span strength and 2.5 times less expansion and contraction.

Every material used within a SoundPly panel is engineered to increase torsional rigidity and span strength, while minimizing longitudinal movement. This results in a panel significantly more dimensionally stable.

COMPARE OPTIONS

SoundPly panels are available in various thicknesses, flat or curved and in sizes up to 5'x12'.

Due to structural instability, grooved panels are typically limited to sizes 4'x5' or smaller, and have far fewer options for customizing.

COMPARE COST

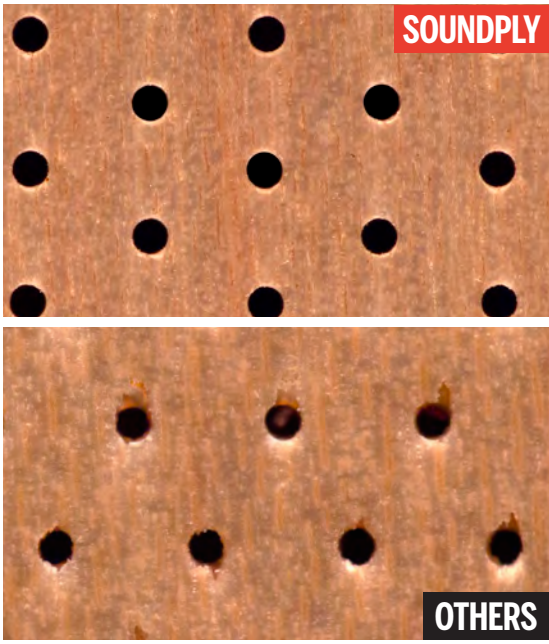
SoundPly panels often cost less than other architectural acoustic solutions.

Additional cost savings can be realized through significantly shorter leadtimes, lower installation costs, and much easier long-term maintenance.

Panel sizes indicate manufacturer's maximum recommended dimensions.

MicroPerfection®

THE WORLD'S MOST ADVANCED MICRO-PERFORATIONS



20X VIEW OF .5MM MICRO-PERFORATIONS

MicroPerfection® is the patent-pending technology behind the exceptional sound absorption of SoundPly's micro-perforations. Widely considered the future of acoustic panel technology, micro-perforations hold the promise of a more precise and effective method of sound absorption. MicroPerfection fulfills this promise.

Combining years of exhaustive research and development with cutting-edge manufacturing innovations, MicroPerfection provides SoundPly panels with over twice the resonant absorption of other micro-perforated panels (MPPs).

Three fundamental factors define MicroPerfection's superior performance:

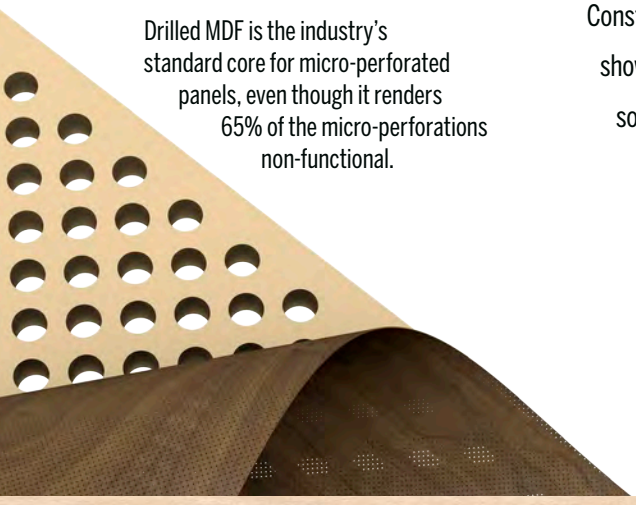
1. MICRO-PERFORATION QUALITY

To facilitate optimal resonant sound absorption, a micro-perforation's passage must have smooth walls with clean, sharp edges. These conditions allow the air inside each passage to move en masse, resonating quickly and efficiently.

Most MPPs are manufactured using a punch perforating machine intended for soft materials such as fabric and leather, not hard surfaces such as wood. The punching process crushes wood, leaving crudely formed holes with collapsed passages that restrict airflow.

MicroPerfection technology employs a far better process. Using a sequence of broaching pins to create and refine each micro-perforation, SoundPly panels are produced with the cleanest, sharpest micro-perforations possible.

2. FUNCTIONAL MICRO-PERFORATION PERCENTAGE



Drilled MDF is the industry's standard core for micro-perforated panels, even though it renders 65% of the micro-perforations non-functional.

Construction quality matters little if a micro-perforation's passage is blocked. Tests show that if just 5% of micro-perforations are obstructed or restricted, a panel's sound absorption is measurably reduced.

Apart from SoundPly, all MPPs are constructed with bored MDF or PB core, which completely blocks over 65% of the micro-perforations. SoundPly panels are constructed with a process developed specifically to ensure that all micro-perforations are clean and completely unobstructed;

100% of SoundPly's micro-perforations function as designed.

3. MICRO-PERFORATION DIMENSIONS

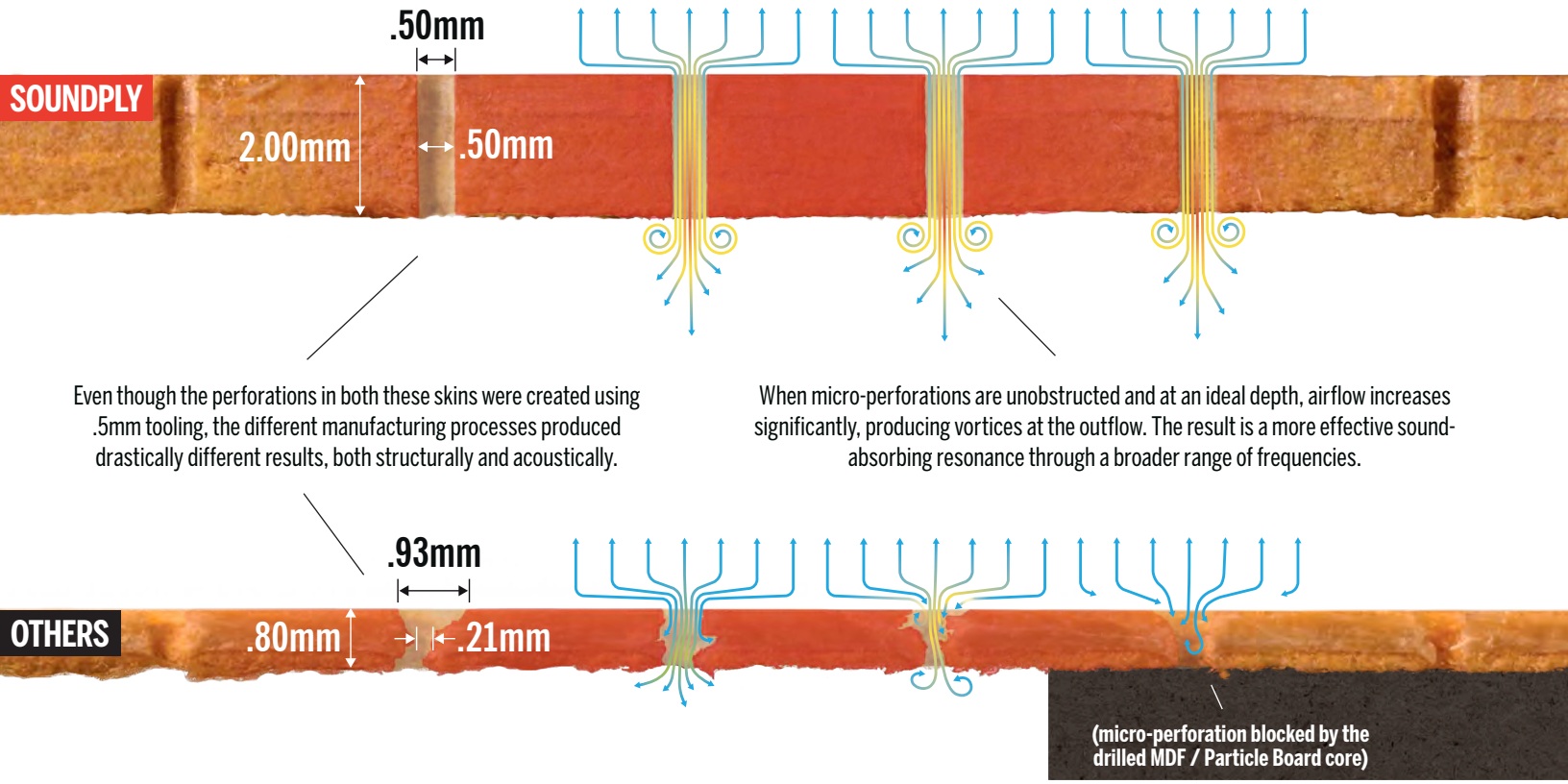
Four primary factors control the intensity and frequency range of a micro-perforation's resonant absorption:

1. **Diameter of the micro-perforation**
2. **Depth of the micro-perforation**
3. **Spacing between micro-perforations**
4. **Cavity depth behind the micro-perforation**

Through extensive testing of these variables, SoundPly's micro-perforations have been "tuned" to achieve the broadest range of sound absorption across the most relevant frequencies. The tests revealed the ideal micro-perforation dimensions: a diameter of .45-.55mm at a depth of 1.8-2.1mm, spaced 2.5mm apart.

Limited by their method of production, other manufacturers can only produce panels with micro-perforations no deeper than .9mm, with the majority of panels having perforation depths less than .5mm. Micro-perforations at various depths were tested and compared, with significantly varying results. In overall sound absorption, a micro-perforation with a depth of 2.0mm performed 28% better than a depth of .9mm, and 45% better than a depth of .5mm.

Although requiring a more engineered and higher precision manufacturing process, MicroPerfection's clean, deep and unobstructed micro-perforations provide unmatched acoustic performance. This technology is one of the many factors responsible for making SoundPly the world's most sound-absorbent acoustic panels.



Even though the perforations in both these skins were created using .5mm tooling, the different manufacturing processes produced drastically different results, both structurally and acoustically.

When micro-perforations are unobstructed and at an ideal depth, airflow increases significantly, producing vortices at the outflow. The result is a more effective sound-absorbing resonance through a broader range of frequencies.

A BETTER METHOD FOR CONTROLLING SOUND

Many spaces such as restaurants, open offices, and classrooms need an adaptive level of acoustic control that traditional solutions are unable to provide. Beyond simply reducing sound, these environments need effective absorption at high sound pressure levels (SPL), while maintaining natural, clear audibility at lower levels. SoundPly provides the solution.

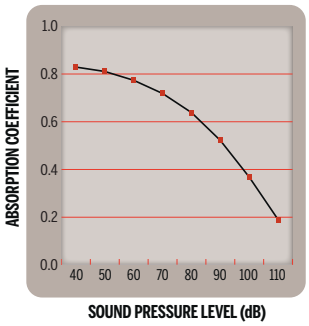
TRADITIONAL SOUND CONTROL

Nearly all acoustic systems absorb sound using porous materials, such as foam, fiberglass, cotton or felt. These materials absorbs sound energy in two methods– viscous friction between air molecules as they flow throughout the open spaces inside the material, and mechanical damping from microscopic vibrations caused by air molecules impacting the porous material's inner structure.

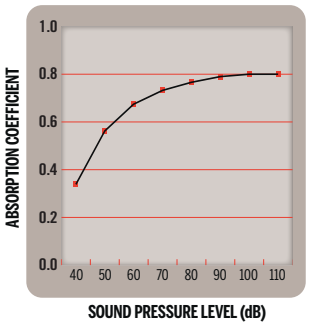
Due to the physical limitations of mechanical damping, porous materials absorb sound energy more effectively at low SPLs than at higher levels. Although increasing a porous material's thickness improves its overall absorption capacity, it disproportionately improves the material's low SPL absorption.

This bias is problematic, since the amount of porous material needed to sufficiently address higher SPLs results in the environment sounding "dead" and unnatural at lower SPL levels, due to the excessive sound absorption.

POROUS ABSORPTION



RESONANT ABSORPTION



DYNAMIC SOUND CONTROL

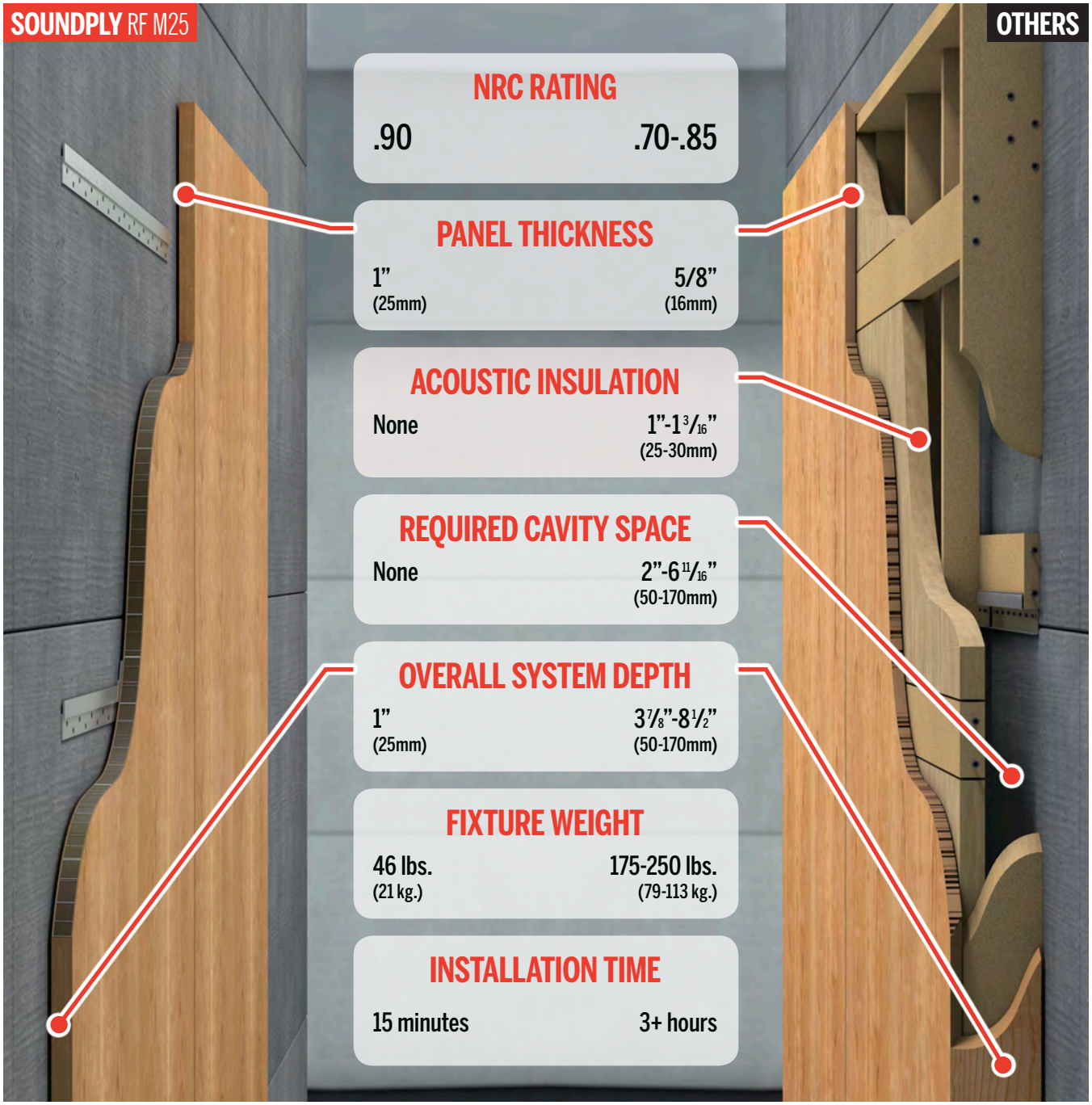
A solution using a balance of porous and resonant sound absorption has been introduced with the newest generation of SoundPly panels. The solution is called Dynamic Sound Control™ (DSC), and is only possible through the combination of SoundPly's patented construction with the panel's MicroPerfection® technology.

Resonant absorption, in contrast to porous absorption, actually performs more efficiently as SPLs increase. At low levels, resonant absorption primarily occurs through viscous friction caused by resonating air molecules inside the micro-perforation's passages. As sound levels increase, the resonating air molecules expel out of the passage at higher velocities, projecting turbulent vortices from the panel's surface. Through a process called vortex shedding, these vortices increase absorption efficiency by destructively interfering with the energy of succeeding sound waves.

Cleverly combining porous and resonant absorption gives SoundPly panels a uniquely natural type of sound absorption.

COMPARISON OF ACOUSTIC PANEL INSTALLATIONS

In order to achieve their stated NRC values, other manufacturers's architectural acoustic panels usually require additional insulation enclosed in a sealed cavity space. Navy Island's SoundPly panels do not. SoundPly panels can be directly mounted to the wall, requiring no additional acoustic material or complex assemblies.



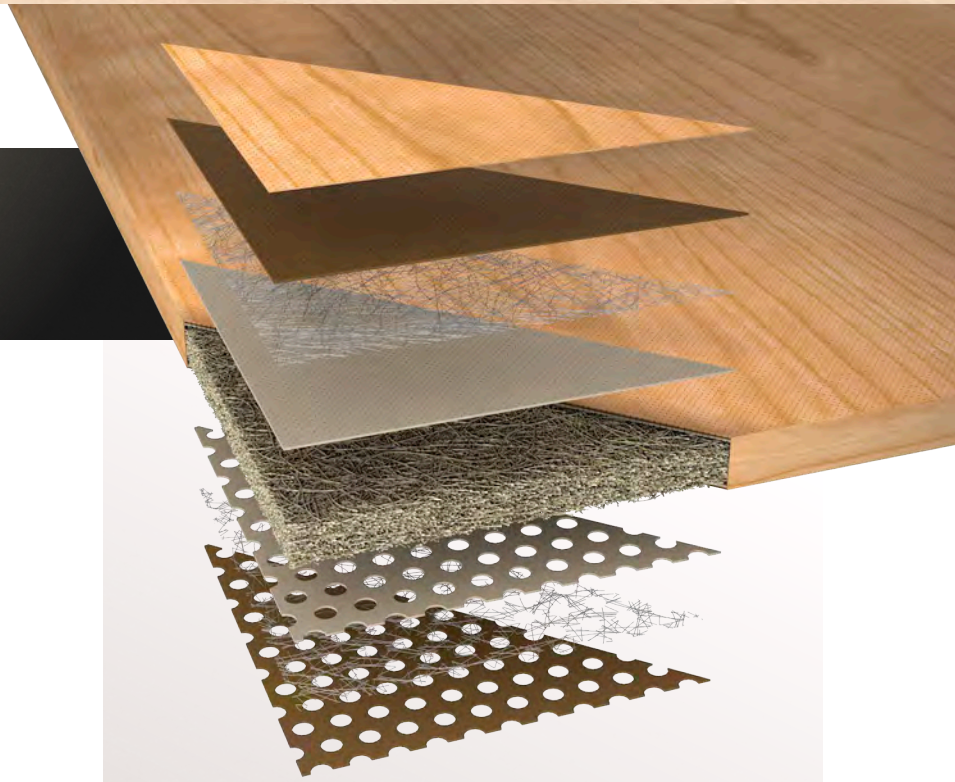
SOUNDPLY PANEL COMPARISON

	DC 19	SC P-19	LR M-25	LR M-51	RF M-19	RF M-25	RF M-38	RF M-51
	1st Generation	2nd Generation	3rd Generation	3rd Generation	3rd Generation	3rd Generation	3rd Generation	3rd Generation
Open Micro-Perforation %	34%	100%	100%	100%	100%	100%	100%	100%
MicroPerfection® Patent Pending		✓	✓	✓	✓	✓	✓	✓
SPCore Technology™ Patent Approved			✓	✓	✓	✓	✓	✓
Dynamic Sound Control™			✓	✓	✓	✓	✓	✓
ACOUSTICS								
NRC ASTM-C423	.40	.50	.80	.95	.70	.90	.95	1.00
CAC ASTM-E1414	n/a	n/a	39	39+	43	46	46+	46+
STC ASTM-E336	n/a	n/a	n/a	n/a	n/a	37	37+	37+
STRUCTURE								
Linear Expansion ASTM-D1037	+/-0.7%	+/-0.4%	+/-0.4%	+/-0.4%	+/-0.4%	+/-0.4%	+/-0.4%	+/- 0.4%
Span Strength Deflection over 2440mm	122mm	52mm	13mm	13mm	13mm	3mm	2mm	2mm
Max. Panel Size	5'x12'	5'x12'	5'x12'	4'x8'	5'x12'	5'x12'	5'x12'	5'x12'
Impact Resistance	Poor	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Moisture Resistance	Poor	Good	Excellent	Excellent	Fair	Fair	Fair	Fair
HEALTH								
Low VOC CDPH-1350 Compliant		✓	✓	✓	✓	✓	✓	✓
Antimicrobial ASTM-D3273	Poor	Good	Excellent	Excellent	Average	Average	Average	Average
Fire Class ASTM-E84	B	A	A	A	A	A	A	A
USAGE								
Ceiling Tiles 2'x8' or smaller	Fair	Good	Good	Average	Excellent	Excellent	Good	Good
Ceiling Panels 2'x8' or smaller	Fair	Good	Good	Good	Good	Excellent	Good	Good
Wall Panels	Fair	Good	Good	Good	Excellent	Excellent	Excellent	Excellent
Baffles	n/a	Fair	Average	Excellent	Fair	Average	Good	Excellent
Planks	Poor	Average	Excellent	Good	Excellent	Excellent	Excellent	Excellent
Clouds	Fair	Good	Average	Average	Excellent	Excellent	Excellent	Excellent

SC SERIES

P19

MICRO-PERFORATED PASS-THROUGH PANEL



MAXIMUM SIZE	**60" x 144"** (1525 mm x 3660 mm) *Lengths over 120" are subject to material availability*
THICKNESS	**¾"** (19 mm) Available up to 1 **¾"** (44mm)
WEIGHT	**1.8 lbs/ft²** (8.8 kg/m²)
CORE	SoundCore™ Monolithic Wood Wool
FACE OPTIONS	• Wood Veneer • UV Print • Paint
PERFORATIONS	Surface Diameter: 0.5 mm Passage Diameter: 0.5 mm Passage Depth: 2.0 mm Pattern: Square Diamond
NRC	**.50** F6 Direct Mount **.70*** E400 Ceiling Mount [ASTM-C423]
FIRE RATING	**Class A** [ASTM-E84]
ANTIMICROBIAL	**Excellent** Tested an average of 9.3 out of 10 for mold growth [ASTM-D3273]
LEED CREDITS	**MR 4.1 & 4.2 Recycled Content Credit -** Entire assembly 38% pre-consumer **MR 7 Certified Wood -** contact sales staff. **EQ 4.4 Composite Wood** (no added urea formaldehyde) **EQ 7 & 7.1 Thermal Comfort** **EQ 9 Enhanced Acoustical Performance**

*Expect at least 25% lower acoustic performance in real world installations, due to the number of uncontrolled variables inherent to multi-component acoustic systems.

To avoid a loss of acoustic performance, consider a single component acoustic system, such as the SoundPly LR or RF Series of acoustic panels.

.50 NRC — LABORATORY TESTED AS F6 DIRECT MOUNT

HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.09	.07	.06	.09	.07	.12	.17	.22

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
.29	.40	.54	.78	.89	.95	.85	.69	.56	.56	.60

1.00* NRC — LABORATORY TESTED AS F6 WALL MOUNT BACKED WITH 2" INSULATION

HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.15	.07	.26	.41	.68	1.03	1.03	1.20

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1.15	1.05	.92	.87	.81	.83	.94	.95	.79	.56	.48

.70* NRC — LABORATORY TESTED AS E400 CEILING MOUNT

HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.62	.44	.17	.15	.75	.73	.74	.67

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
.58	.65	.73	.71	.75	.73	.76	.75	.70	.71	.57

1.00* NRC — LABORATORY TESTED AS E400 CEILING MOUNT WITH 2" INSULATION

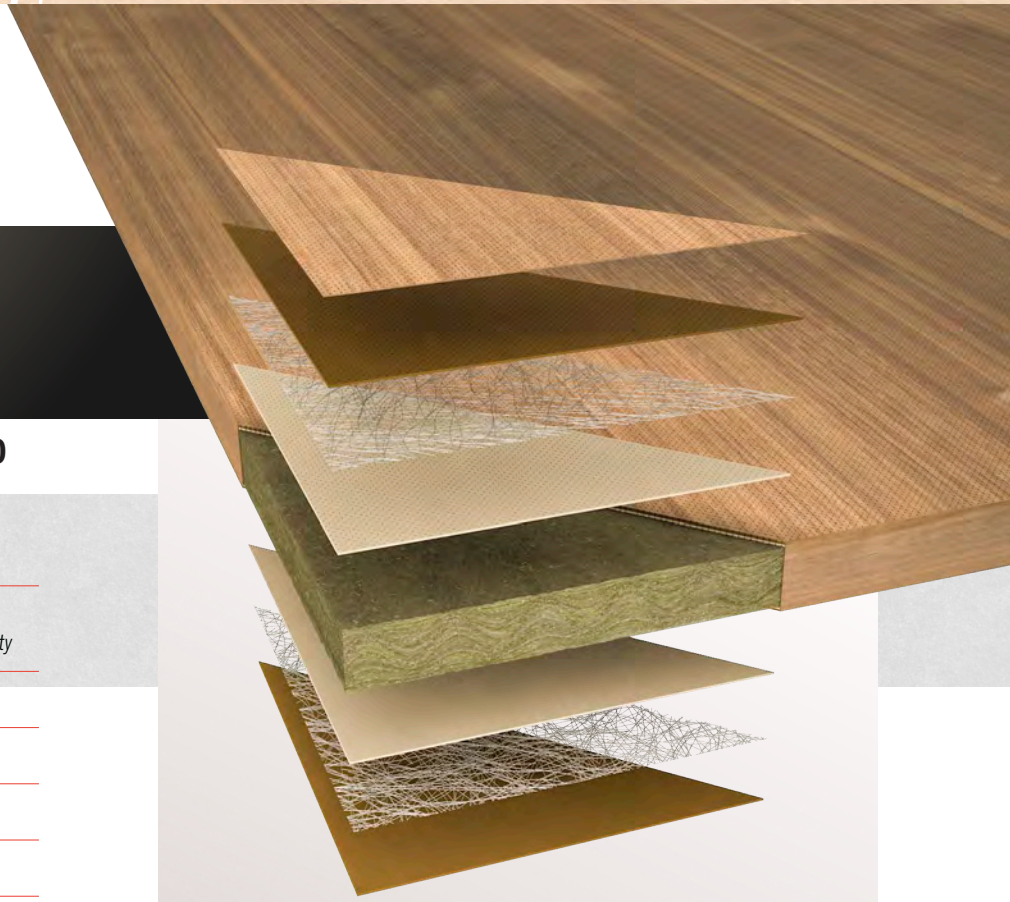
HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.71	.43	.39	.39	.70	.87	.92	.92

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1.01	1.10	1.08	1.11	1.06	1.02	.93	.94	.98	.92	.79

NRC/SAA TEST RESULTS AVAILABLE UPON REQUEST

LR SERIES M25

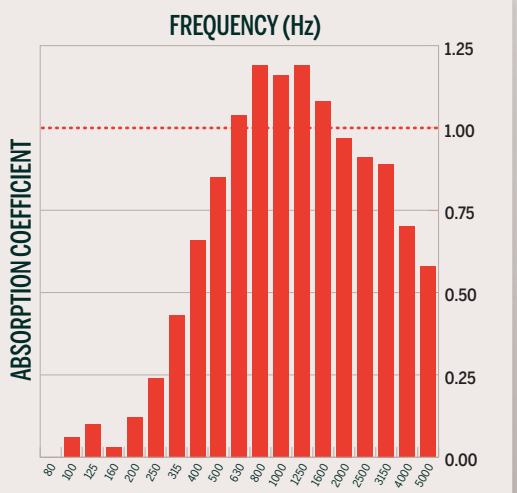
MICRO-PERFORATED ACOUSTIC PANEL



MAXIMUM SIZE	**60" x 144"** (1525mm x 3660mm) *Lengths over 120" are subject to material availability*
THICKNESS	**1"** (25mm)
WEIGHT	**2.0 lbs/ft²** (9.8 kg/m²)
CORE	Recomposed High Density Rock Fiber
FACE OPTIONS	• Wood Veneer • UV Print • Paint
PERFORATIONS	Surface Diameter: 0.5 mm Passage Diameter: 0.5 mm Passage Depth: 2.0 mm Pattern: Square Diamond
NRC	**.80** [ASTM-C423] (F6 Direct Mount–no additional insulation or sealed cavity space required)
CAC	**39** [ASTM-E1414]
STC	n/a
VOC	**Low** [CDPH-1350 Compliant]
FIRE RATING	**Class A** [ASTM-E84]
ANTIMICROBIAL	**Excellent** Tested an average of 10 out of 10 for mold growth [ASTM-D3273]
LEED CREDITS	**EA 1 Optimized Energy Performance** **MR 4.1 & 4.2 Recycled Content Credit -** 68% pre-consumer, 0% post-consumer. **MR 7 Certified Wood -** contact sales staff. **EQ 4.4 Composite Wood** (no added urea formaldehyde) **EQ 7 & 7.1 Thermal Comfort** **EQ 9 Enhanced Acoustical Performance**

.80 NRC

LABORATORY TESTED AS
F6 DIRECT MOUNT



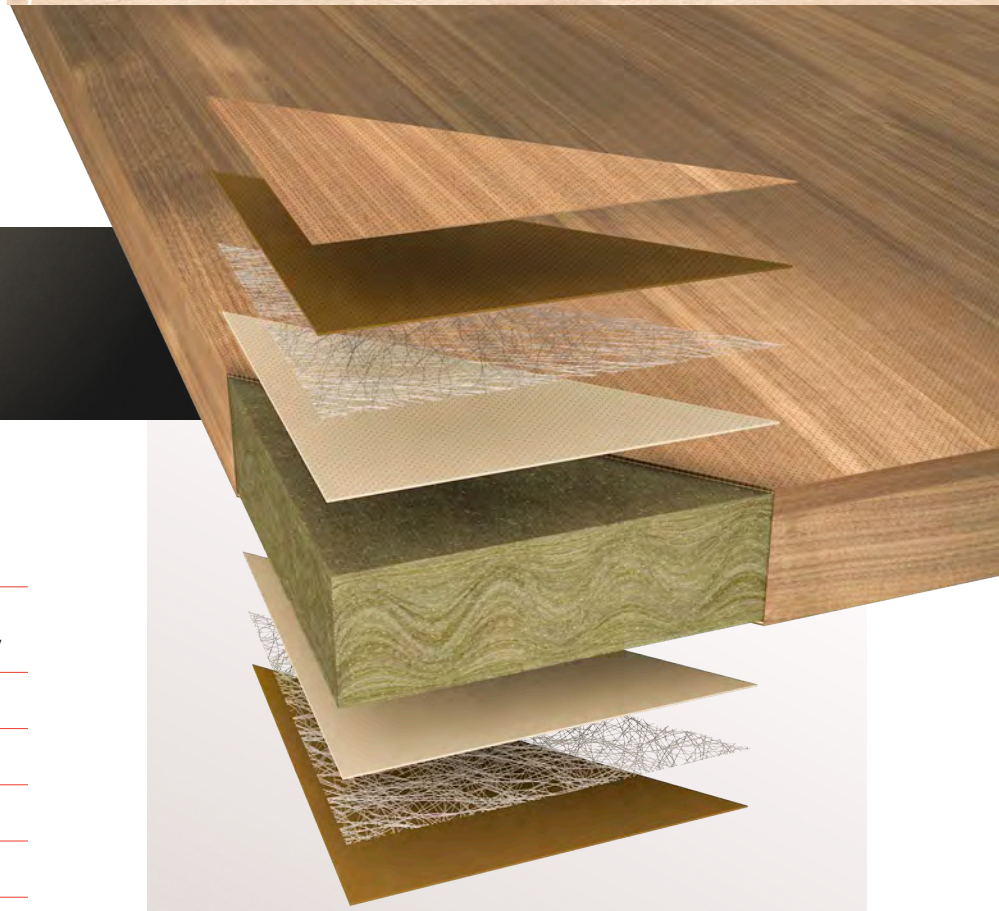
HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.00	.06	.10	.03	.12	.24	.43	.66

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
.85	1.04	1.19	1.16	1.19	1.08	.97	.91	.89	.70	.58

NRC/SAA TEST RESULTS AVAILABLE UPON REQUEST

LR SERIES M51

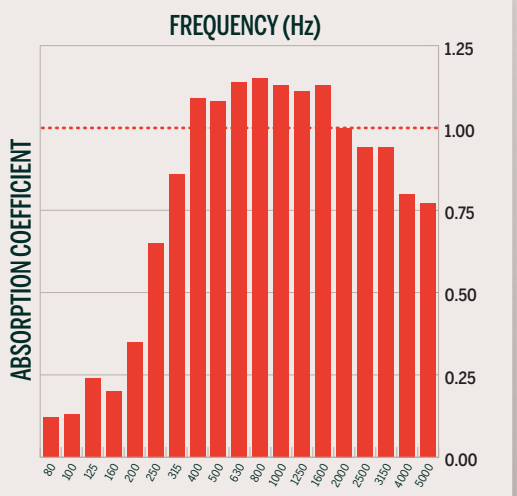
MICRO-PERFORATED ACOUSTIC PANEL



MAXIMUM SIZE	**12"x144"** (305mm x 3660mm) *Lengths over 120" are subject to material availability*
THICKNESS	**2"** (51mm)
WEIGHT	**2.2 lbs/ft²** (10.7 kg / m²)
CORE	Recomposed High Density Rock Fiber
FACE OPTIONS	• Wood Veneer • UV Print • Paint
PERFORATIONS	Surface Diameter: 0.5 mm Passage Diameter: 0.5 mm Passage Depth: 2.0 mm Pattern: Square Diamond
NRC	**.95** [ASTM-C423] (F6 Direct Mount–no additional insulation or sealed cavity space required)
CAC	**39+** [ASTM-E1414]
STC	n/a
VOC	**Low** [CDPH-1350 Compliant]
FIRE RATING	**Class A** [ASTM-E84]
ANTIMICROBIAL	**Excellent** Tested an average of 10 out of 10 for mold growth [ASTM-D3273]
LEED CREDITS	**EA 1 Optimized Energy Performance** **MR 4.1 & 4.2 Recycled Content Credit -** 62% pre-consumer, 0% post-consumer. **MR 7 Certified Wood -** contact sales staff. **EQ 4.4 Composite Wood** (no added urea formaldehyde) **EQ 7 & 7.1 Thermal Comfort** **EQ 9 Enhanced Acoustical Performance**

.95 NRC

LABORATORY TESTED AS
F6 DIRECT MOUNT



HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.12	.13	.24	.20	.35	.65	.86	1.09

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1.08	1.14	1.15	1.13	1.11	1.13	1.00	.94	.94	.80	.77

NRC/SAA TEST RESULTS AVAILABLE UPON REQUEST

RF SERIES

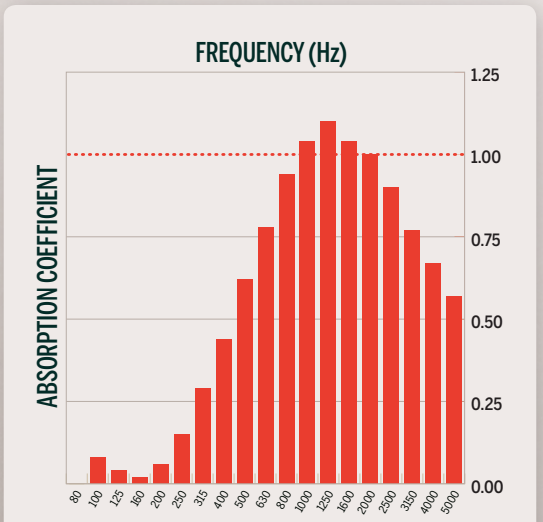
M19

MICRO-PERFORATED ACOUSTIC PANEL

MAXIMUM SIZE	**60" x 144"** (1525 mm x 3660 mm) *Lengths over 120" are subject to material availability*
THICKNESS	**¾"** (19 mm)
WEIGHT	**1.45 lbs/ft²** (7.08 kg/m²)
CORE	Sintered Resin-Reinforced Glass Wool
FACE OPTIONS	• Wood Veneer • UV Print • Paint
PERFORATIONS	Surface Diameter: 0.5 mm Passage Diameter: 0.5 mm Passage Depth: 2.0 mm Pattern: Square Diamond
NRC	**.70** [ASTM-C423] (F6 Direct Mount–no additional insulation or sealed cavity space required)
CAC	**43** [ASTM-E1414]
STC	n/a
VOC	**Low** [CDPH-1350 Compliant]
FIRE RATING	**Class A** [ASTM-E84]
LEED CREDITS	**EA 1 Optimized Energy Performance** **MR 4.1 & 4.2 Recycled Content Credit -** 70% pre-consumer, 0% post-consumer. **MR 7 Certified Wood** - contact sales staff. **EQ 4.4 Composite Wood** (no added urea formaldehyde) **EQ 7 & 7.1 Thermal Comfort** **EQ 9 Enhanced Acoustical Performance**

.70 NRC

LABORATORY TESTED AS
F6 DIRECT MOUNT



HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.00	.08	.04	.02	.06	.15	.29	.44

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
.62	.78	.94	1.04	1.10	1.04	1.00	.90	.77	.67	.57

NRC/SAA TEST RESULTS AVAILABLE UPON REQUEST

RF SERIES

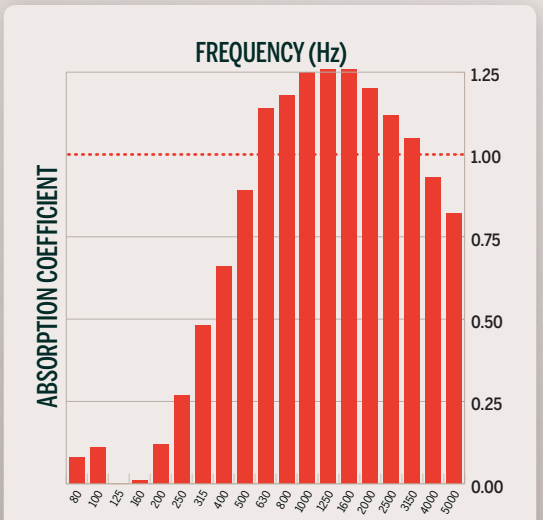
M25

MICRO-PERFORATED ACOUSTIC PANEL

MAXIMUM SIZE	**60" x 144"** (1525 mm x 3660 mm) *Lengths over 120" are subject to material availability*
THICKNESS	**1"** (25mm)
WEIGHT	**1.8 lbs/ft²** (8.8 kg/m²)
CORE	Sintered Resin-Reinforced Glass Wool
FACE OPTIONS	• Wood Veneer • UV Print • Paint
PERFORATIONS	Surface Diameter: 0.5 mm Passage Diameter: 0.5 mm Passage Depth: 2.0 mm Pattern: Square Diamond
NRC	**.90** [ASTM-C423] (F6 Direct Mount–no additional insulation or sealed cavity space required)
CAC	**46** [ASTM-E1414]
STC	**37** [ASTM-E336]
VOC	**Low** [CDPH-1350 Compliant]
FIRE RATING	**Class A** [ASTM-E84]
LEED CREDITS	**EA 1 Optimized Energy Performance** **MR 4.1 & 4.2 Recycled Content Credit -** 67% pre-consumer, 0% post-consumer. **MR 7 Certified Wood** - contact sales staff. **EQ 4.4 Composite Wood** (no added urea formaldehyde) **EQ 7 & 7.1 Thermal Comfort** **EQ 9 Enhanced Acoustical Performance**

.90 NRC

LABORATORY TESTED AS
F6 DIRECT MOUNT



HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.08	.11	.00	.01	.12	.27	.48	.66

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
.89	.94	1.14	1.18	1.25	1.26	1.20	1.12	1.05	.93	.82

NRC/SAA TEST RESULTS AVAILABLE UPON REQUEST

RF SERIES

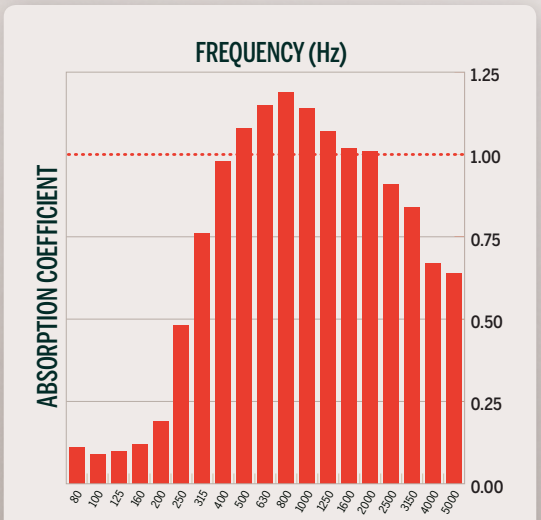
M38

MICRO-PERFORATED ACOUSTIC PANEL

MAXIMUM SIZE	**60" x 144"** (1525 mm x 3660 mm) *Lengths over 120" are subject to material availability*
THICKNESS	**1½"** (38 mm)
WEIGHT	**2.0 lbs/ft²** (9.8 kg/m²)
CORE	Sintered Resin-Reinforced Glass Wool
FACE OPTIONS	• Wood Veneer • UV Print • Paint
PERFORATIONS	Surface Diameter: 0.5 mm Passage Diameter: 0.5 mm Passage Depth: 2.0 mm Pattern: Square Diamond
NRC	**.95** [ASTM-C423] (F6 Direct Mount–no additional insulation or sealed cavity space required)
CAC	**46+** [ASTM-E1414]
STC	**37+** [ASTM-E336]
VOC	**Low** [CDPH-1350 Compliant]
FIRE RATING	**Class A** [ASTM-E84]
LEED CREDITS	**EA 1 Optimized Energy Performance** **MR 4.1 & 4.2 Recycled Content Credit -** 66% pre-consumer, 0% post-consumer. **MR 7 Certified Wood** - contact sales staff. **EQ 4.4 Composite Wood** (no added urea formaldehyde) **EQ 7 & 7.1 Thermal Comfort** **EQ 9 Enhanced Acoustical Performance**

.95 NRC

LABORATORY TESTED AS
F6 DIRECT MOUNT



HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.11	.09	.10	.12	.19	.48	.76	.98

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1.08	1.15	1.19	1.14	1.07	1.02	1.01	.91	.84	.67	.64

NRC/SAA TEST RESULTS AVAILABLE UPON REQUEST

RF SERIES

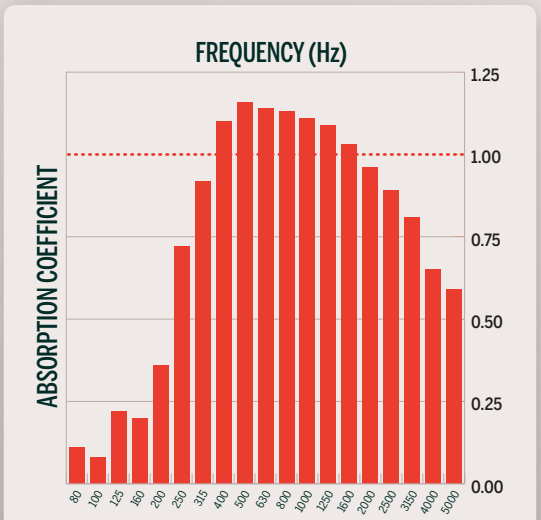
M51

MICRO-PERFORATED ACOUSTIC PANEL

MAXIMUM SIZE	**60" x 144"** (1525 mm x 3660 mm) *Lengths over 120" are subject to material availability*
THICKNESS	**2"** (51 mm)
WEIGHT	**2.3 lbs/ft²** (11.3 kg/m²)
CORE	Sintered Resin-Reinforced Glass Wool
FACE OPTIONS	• Wood Veneer • UV Print • Paint
PERFORATIONS	Surface Diameter: 0.5 mm Passage Diameter: 0.5 mm Passage Depth: 2.0 mm Pattern: Square Diamond
NRC	**1.00** [ASTM-C423] (F6 Direct Mount–no additional insulation or sealed cavity space required)
CAC	**46+** [ASTM-E1414]
STC	**37+** [ASTM-E336]
VOC	**Low** [CDPH-1350 Compliant]
FIRE RATING	**Class A** [ASTM-E84]
LEED CREDITS	**EA 1 Optimized Energy Performance** **MR 4.1 & 4.2 Recycled Content Credit -** 64% pre-consumer, 0% post-consumer. **MR 7 Certified Wood** - contact sales staff. **EQ 4.4 Composite Wood** (no added urea formaldehyde) **EQ 7 & 7.1 Thermal Comfort** **EQ 9 Enhanced Acoustical Performance**

1.00 NRC

LABORATORY TESTED AS
F6 DIRECT MOUNT



HERTZ	80	100	125	160	200	250	315	400
ABSORPTION	.11	.08	.22	.20	.36	.72	.92	1.10

500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1.16	1.14	1.13	1.11	1.09	1.03	.96	.89	.81	.65	.59

NRC/SAA TEST RESULTS AVAILABLE UPON REQUEST

YOUR SINGLE SOURCE FOR ARCHITECTURAL WOOD PRODUCTS

VENEER PANELS

- Cut-to-size panels up to 5' x 12'; thicknesses from 1/32" to 3"
- Color & grain matched or blueprint-matched to doors and frames
- Approximately 3 million square feet of 715 different species/slice/grade combinations
- Custom stain and finish matching
- Internally or externally applied solid edgebanding
- Externally applied veneer edgebanding
- FSC accredited & LEED compliant veneers and cores

ARCHITECTURAL DOORS

- Non-rated, 20 Minute, 45 Minute, 60 Minute and 90 Minute fire-rated singles and pairs
- Acoustical, lead-lined & bullet-resistant
- Door sizes up to 7' x 12' x 2-1/4" thick
- Color & grain matched or blueprint-matched to panels and frames
- Custom stain and finish matching
- Custom machining, including all popular types of locks, locksets, hinges, flush bolts, exit devices, viewers, and closers
- FSC accredited & LEED compliant veneers and cores

FRAMES & LITES

- FlameTech® 20 & 45 minute fire-rated wood frames and lites
- FlameTech® 90 minute fire-rated veneer frames and lites
- Linear and compound radius multiple lite wall installations
- AWI Premium Grade fastener-less frames
- Split jamb frames
- Lock miter frames
- Custom matched veneer frames, jambs, casing, and trim
- Color & grain matched or blueprint-matched to panels and doors
- Shipped pre-assembled or knocked-down
- Rear-fastened, T-profile door stops
- Optional veneer over solid wood jambs

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