

Wave Pro Series

Absorption and Diffusion Panels

PROSOACOUSTIC

DATA SHEET

Take Control of Your Room

The ProSoCooustic Wave Pro Series offers a unique blend of absorption and diffusion in one product. Our unique **diffusor pattern inside each panel** allows **greater absorption efficiency in the same amount of space**. Wave Pro panels also include convenient machine screw inserts that provide ease of installation via a **single pair of 18" Z-Clips**. **Additional machine screw inserts** provide easy access for additional Z-Clips, offering extra durability in high-traffic areas or when panels are positioned on the ceiling. ProSoCooustic Wave Pro Series are **mold and moisture resistant**, UL classified and **ASTM E84 Class A fire resistant**, ISPM-15 certified for worldwide transport, and meet LEEDs requirements for **environmental safety** with FCS and ECC certification.

At A Glance:

Frame	Diffusion pattern is CNC machine-cut from UltraStock® FR MDF panels in collaboration with Georgia-Pacific.
Acoustic Material	ROCKWOOL ROCKBOARD® 40: random fiber orientation makes it more effective at absorbing sound than alternative materials.
Fabric	100% polyester acoustic grade fabric. Available in standard Diamond Knit and Diamond Pro.
Fabric Attachment	Screen Spline insert holds fabric in place and provides proper fabric tensioning. Easy to remove for quick fabric replacement.
Mounting	Panels include machine screw inserts complemented by 18" Z-Clips to provide simple, sturdy, non-permanent installation.

New Pro Features:

- ❖ Additional sizes (**up to 8'x4'**) and custom shapes can be created based on your needs.
- ❖ Diffusion pattern updated to better fit different panel sizes.
- ❖ Additional machine screw inserts are included to make horizontal installation easier.



One-Of-A-Kind Frame Provides Absorption-Enhancing Diffusion

The Wave Pro Series' frame includes diffusion designed right into the product. The frame starts life out as an UltraStock® FR MDF panel that has a Class A Fire Rating, contains no added formaldehyde, and is FSC and Eco-Certified. From there each panel is machine-cut to create our special diffusion design, ensuring every panel is of the highest quality and with the most effective diffusion properties.

Direct In, Multiple Outs

When sound enters a traditional acoustic panel, the unabsorbed sound waves are reflected back the same way they entered. The Wave Pro Series' internal diffusor redirects sound waves in multiple directions. Not only does this **increase the amount of absorbed sound per panel**, but it also helps distribute reflected sound throughout your space.

The Superior Absorption Choice

ProSoCooustic uses ROCKWOOL ROCKBOARD® 40 **stone wool**, a mixture of basalt and steel slag, due to its **superior absorption, health, safety, and sustainability factors over fiberglass or foam**. Basalt is the most common type of volcanic rock and melts at around 3,000 degrees Fahrenheit. Slag is a by-product of the steel manufacturing industry. Liquid-hot basalt is mixed with steel slag, and the combination is spun into threads that are compressed into sheets. Stone wool does not retain mold or bacteria, and melts at 2,200 degrees F after 2 hours of exposure. Since no binding agents or glues are used, there is no flame, no smoke, and no off-gassing. Stone wool's non-linear threads ensure top of the industry acoustic absorption qualities.

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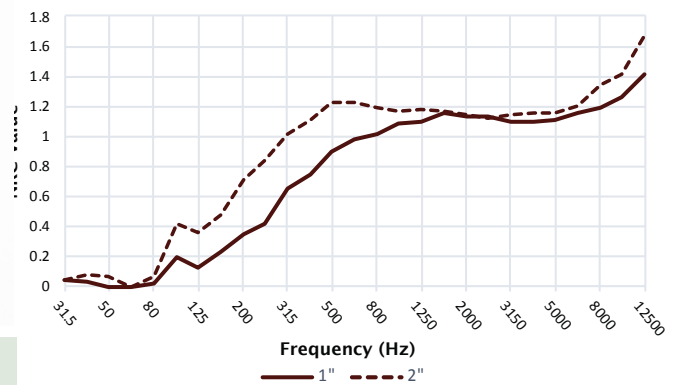
Acoustic Performance

Wave Pro Individual Panel Specs		
Panel	Dimensions (Inches)	Weight (lbs)
1" Thick 2x2	24" x 24" x 1.75"	10
2" Thick 2x2	24" x 24" x 2.875"	12.2
1" Thick 2x4	48" x 24" x 1.75"	20
2" Thick 2x4	48" x 24" x 2.875"	23.2

	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	Average NRC
1" Stone Wool	0.07	0.32	0.77	1.04	1.05	1.05	0.8
2" Stone Wool	0.26	0.68	1.12	1.1	1.03	1.04	1
1" Wave Pro*	0.12	0.42	0.90	1.09	1.13	1.05	0.90
2" Wave Pro*	0.36	0.84	1.22	1.17	1.14	1.16	1.15

*Denotes acoustic material thickness; actual panel dimensions greater than acoustic material.
 **Acoustic testing for Wave Pro provided by Riverbank Acoustical Laboratories.

Wave Pro NRC Graph for 2'x4' Panels



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Inside

Fire and Burn Information

ROCKBOARD® 40 (Absorption) - ASTM E84 Class A; UL 273 Class 1		
ASTM E 136	Behavior of Materials at 750° C (1382° F)	Non-Combustible
ASTM E84 (UL 273)	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN4 S114	Test for Non-Combustibility	Non-Combustible
CAN/ULC S102	Surface Burning Characteristics	Flame Spread: 0 Smoke Developed: 0
CAN/ULC S129	Smolder Resistance	0.09%
UltraStock® FR Frame (Diffusion) - ASTM E84 Class A; UL 273 Class 1		
ASTM E84 (UL 273)	Surface Burning Characteristics	Flame Spread: 20 Smoke Developed: 3

Physical Properties

ROCKBOARD® 40 (Absorption)		
Thermal Resistance ASTM C518 (C177)	R-value/inch @ 75° F RSI value/25.4mm @ 24° C	4.2 hr.ft² F/BTU 0.74 m² K/W
Moisture Resistance ASTM C1104	Moisture Sorption	<0.08%
Fungi Resistance ASTM C1338	Determination of Fungi Resistance	Passed
UltraStock® FR Frame (Diffusion)		
✓ Eco-Certified	✓ FSC® Certified	✓ MR10 Moisture Resistance
✓ TSCA Title VI Compliant	✓ Formaldehyde Emissions CARB II Compliant	✓ Produced with 100% NAF Resin

