

Exceptional Highs. High frequency problems, solved.

DIFFUSE High is a beautifully appointed, furniture grade mid-high frequency diffusion product that mitigates high-frequency echoes and flutter. This optimized diffuser is perfect for previously reflective surfaces in environments where clients desire an intelligible and uniform sound. By reducing the need for absorptive materials, DIFFUSE High facilitates equalized sound quality while maintaining a lively and engaging sound with spaciousness and character. When combined with other DIFFUSE offerings, DIFFUSE High creates a sound environment that is comfortable, realistic and luxurious.

Standoff mounting



1 3/4", 1" and 2 1/2" standoffs; slotted

Tongue-and-groove mounting



Convex curve with 77" radius; not slotted

Specifications:

Material: Maple, MDF, and various hardwoods matched to customer specification.

Size: Standard lengths in 2' increments up to 8'.

4" (W) x 1" (D)

Custom lengths available.

Finish: DIFFUSE High comes standard with a beautiful clear maple finish and can be finished to match an unlimited variety of surfaces. Available raw, lacquered, stained, vinyl and painted.

Mounting: Three mounting options: raw (no interface), standoffs or tongue-and-groove.

Standoffs available in 3/4", 1", 1 3/4" and 2 1/2" lengths.

Slots: Available with or without slots.



Design: Stepped Quadratic Residue Diffuser

Sequence: Number theory based quadratic residue high frequency aperture phase grating.

Effective Bandwidth: 3500 - 12000hz

Mounting Options: Standoff, tongue-and-groove or dado/biscuit

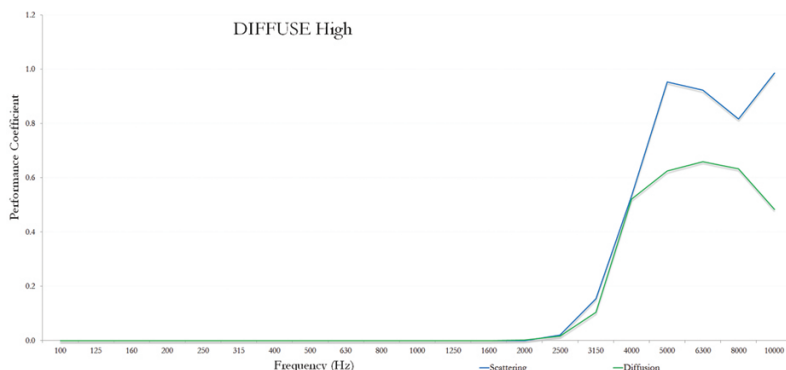
Standoff lengths: 3/4" - 1" - 1 3/4" - 2 1/2"

Available sizes: All planks are 4" wide x 1" deep
 Lengths:
 23 3/4" (2' nominal)
 47 3/4" (4' nominal)
 71 3/4" (6' nominal)
 95 3/4" (8' nominal)
 Custom lengths up to 12'
Weight: 1lb./ft; 1.49kg/m

Available materials: MDF, maple and various hardwood species

Acoustical properties:

ISO - 17497 - 2		
f (Hz)	Scattering	Diffusion
100	0.000	0.000
125	0.000	0.000
160	0.000	0.000
200	0.000	0.000
250	0.000	0.000
315	0.000	0.000
400	0.000	0.000
500	0.000	0.000
630	0.000	0.000
800	0.000	0.000
1000	0.000	0.000
1250	0.000	0.000
1600	0.000	0.000
2000	0.001	0.002
2500	0.020	0.016
3150	0.155	0.104
4000	0.533	0.521
5000	0.954	0.625
6300	0.923	0.660
8000	0.817	0.633
10000	0.987	0.484



Finishes: Available in an unlimited variety of wood species and colors.



Applications:

Performance spaces, auditoria, recital halls, lecture halls, band practice facilities, orchestra pits, recording studios, recording control rooms, broadcast studios, production and post-production facilities, critical listening rooms, home theaters, conference rooms, and public spaces.

Characteristics:

-As a part of the DIFFUSE system, DIFFUSE High fits within a modular system that gives designers and engineers greater levels of freedom within the acoustic space.

-Low absorption properties for environments where maintaining energy in the listening space is important.

-Highest quality materials and processes ensure a distinctly luxurious experience for owners and patrons of listening spaces.

-Can be combined with other DIFFUSE products to create a truly state-of-the-art experience.

Edge profiles

Straight

available with dado/biscuit for alignment or helmholtz absorption; most versatile cut



Back-cut

for stand-alone units or end; as featured in DIFFUSE Elite



Tongue and Groove

with room for gently curving walls and ceilings



Curved

eased edges for curved walls and ceilings; 2" radius

