

**PRIME7™ BIFRACTAL**

## KEY FEATURES

- Natural Wood Broadband Diffuser that Diffuses Sound Uniformly from All Angles of Incidence
- “Diffuser Nested Within a Diffuser” - Together They Provide Uniform Backscattering of Sound Energy Within Its Own Frequency Range Without Lobing Associated With Periodic Arrays or Unwanted Absorption Due to Viscous Losses Between Wells
- Wood Veneer, Laminates and Custom Finish Facings
- Custom Veneers Available to Coordinate with Designer’s Color Palette
- FSC Certified Materials Available
- Finished Diffusers are Constructed and Machined from New, Impact-Resistant, Process-Molded Materials that Prevent Resonances and Resist Damage
- Up to 10 LEED Credits May Apply With Installation of These Products

\*Schools EQ Prerequisite 3 & Credit 9, MR 4.1 & 4.2, MR 5.1 & 5.2, IEQ 4.1 & 4.2 • Innovation in Design (ID)\*

\* Standard materials have dimensional and weight variations. Calculations are approximate and represent material averages to the best of our knowledge.

## TECHNICAL FEATURES

- **Thickness (Nominal):** 9”
- **Sizes (Nominal):** 2’x2’, 2’x4’, 4’x4’
- **Facing:** Wood Veneer, Laminates, Custom Finish Facings & Fabric Options Available
- **Finish:** Natural, Stain, Lacquer, Paint, Custom
- **Installation Methods:** Cleat, Nail, Screw, As Required
- **FSC Certifications:** FSC Mix, FSC 100%
- **Fire Performance:** Class A

## ACOUSTICAL DATA

Acoustical Performance - Diffusion & Scattering	
Mid-Range Frequencies	
Frequency Range $\pm 0^\circ$ Angle	293 to 3477 Hz
Frequency Range $\pm 30^\circ$ Angle	293 to 1985 Hz
Frequency Range $\pm 60^\circ$ Angle	293 to 1188 Hz
Diffusion (0.20 and Above)	478 Hz to 3477 Hz
Scattering (0.20 and Above)	293 Hz to 3477 Hz
Usable Frequency Range	293 to 3477 Hz
Design Frequency	586 Hz
f-period	578 Hz
High Frequencies	
Frequency Range $\pm 0^\circ$ Angle	2410 to 17200 Hz
Frequency Range $\pm 30^\circ$ Angle	2410 to 14895 Hz
Frequency Range $\pm 60^\circ$ Angle	2410 to 8599Hz
Diffusion (0.20 and Above)	3185 Hz to 17200 Hz
Scattering (0.20 and Above)	2606 Hz to 17200 Hz
Usable Frequency Range	3185 Hz to 17200 Hz
Design Frequency	5213 Hz
f-period	3780 Hz

## WARRANTY

AVL Systems’ *Limited Warranty* extends for ONE FULL YEAR from original date of shipment.

## AVAILABLE WOOD VENEER OFFERINGS

(Other Wood Species and Slicing Options Available)



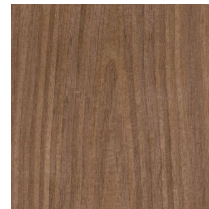
Maple PS



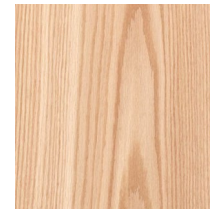
White Oak PS



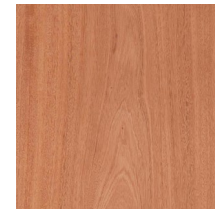
Cherry PS



Walnut PS



Red Oak PS



Mahogany PS



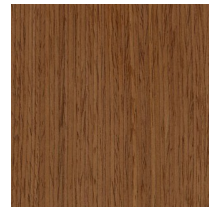
Maple QD



White Oak Rift



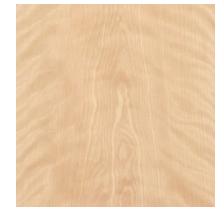
Cherry QD



Walnut QD



Natural Birch PS



White Birch PS