













# Air Mesh CoreBOO™ SLAT Panels

## Product Overview

The **CoreBOO™ SLAT Panels** provide a vast array of slat panel profiles and substrates that allow for different visual effects, each with different sound absorptive characteristics. We offer **SQUARE, FLAT, TALL**, and a selection of **SPECIAL** slat profiles, which come in standard slat profiles, but can easily be customized to any profile needed. For substrates we offer **OPEN, AIR MESH, FELT, SOLID and FLEXI**, each with their own unique characteristics and applications. CoreBOO Slat Panels provides a limitless array of 'sustainable' slat panel solutions.

## Profile series:

- **SQUARE:** the slats have equal height and width
- **FLAT:** the slats are shorter than they are wide
- **TALL:** the slats are taller than they are wide
- **SPECIAL:** slats are either at a 45° angle to the substrate or have a rounded end profile

<h3><u>SQUARE PROFILE</u></h3>  <p><b>Square 20 (tight)</b> Slat Size: 20mm x 20mm (3/4" x 3/4") Spacing: 10mm (3/8")</p>  <p><b>Square 20</b> Slat Size: 20mm x 20mm (3/4" x 3/4") Spacing: 20mm (3/4")</p>  <p><b>Square 30</b> Slat Size: 30mm x 30mm (1-1/4" x 1-1/4") Spacing: 30mm (1-1/4")</p>	<h3><u>FLAT PROFILE</u></h3>  <p><b>Flat 30 (tight)</b> Slat Size: 20mm x 30mm (3/4" x 1-1/4") Spacing: 10mm (3/8")</p>  <p><b>Flat 40 (tight)</b> Slat Size: 20mm x 40mm (3/4" x 1-5/8") Spacing: 10mm (3/8")</p>  <p><b>Flat Mix</b> Slat Size: 20mm x 40 20 20 60mm (3/4" x 1-5/8" 3/4" 3/4" 2-1/3") Spacing: 8mm (~1/3")</p>
<h3><u>TALL PROFILE</u></h3>  <p><b>Tall 40</b> Slat Size: 40mm x 20mm (1-5/8" x 3/4") Spacing: 20mm (3/4")</p>  <p><b>Tall 38</b> Slat Size: 38mm x 25mm (1-1/2" x 1") Spacing: 25mm (1")</p>  <p><b>Tall 50</b> Slat Size: 50mm x 20mm (2" x 3/4") Spacing: 20mm (3/4")</p>	<h3><u>SPECIAL PROFILES</u></h3>  <p><b>Obtuse 30</b> Slat Size: 30mm x 25mm (1-1/4" x 1") Spacing: 20mm (3/4")</p>  <p><b>Obtuse Round 50</b> Slat Size: 50mm x 25mm (2" x 1") Spacing: 25mm (1")</p>  <p><b>Round 50</b> Slat Size: 50mm x 20mm (2" x 3/4") Spacing: 20mm (3/4")</p>

## Substrate options:

### AIR MESH SUBSTRATE

An acoustic fabric is mounted between the slats and bamboo strip substrate providing high NRC values open plenum applications

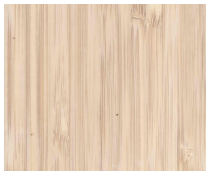


Slats mounted onto recycled PET substrate.

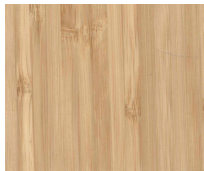
- PET available in multiple thicknesses (9, 12, 18, 24mm)
- Default color is black (*can be customized*)
- NRC range: 0.30 – 1.0

### Color

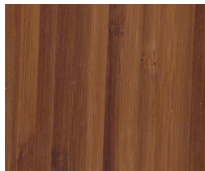
#### UV Colors (Select One)



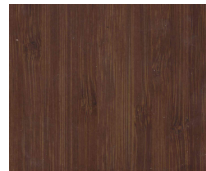
UV White



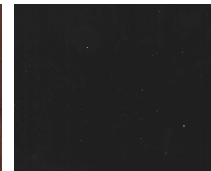
UV Light



UV Dark

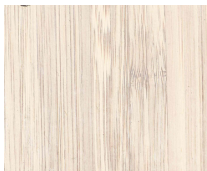


UV Walnut

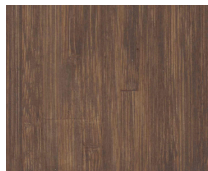


UV Black

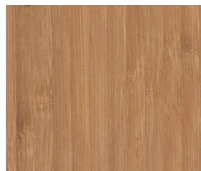
#### Oil Colors (Select One)



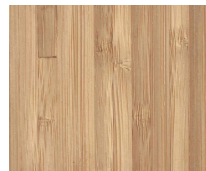
Oil White



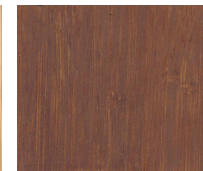
Oil Walnut



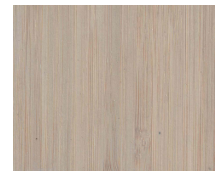
Oil Teak



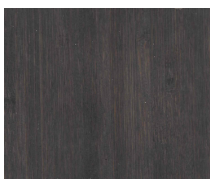
Oil Natural



Oil Hazel



Oil Grey



Oil Black

## Specifications

### Slat Profile (select one):

1. *SQUARE profiles*: Square 20, Square 20 (tight), Square 30, 'custom - per spec'
2. *FLAT profiles*: Flat 30 (tight), Flat 40 (tight), Flat mix, 'custom - per spec'
3. *TALL profiles*: Tall 40, Tall 50, Tall 38, 'custom - per spec'
4. *SPECIAL profiles*: Obtuse 30, Obtuse Round 50, Round 50, 'custom - per spec'

### Color (select one):

1. *UV series*: White UV, Light UV, Dark UV, Walnut UV, Black UV
2. *OIL series*: White Oil, Grey Oil, Natural Oil, Walnut Oil, Teak Oil, Hazelnut Oil, Black Oil

**Composition:** Slats – 100% solid bamboo

**Fire-rating:** Class "B" (Class "A" coating available)

**NRC:** varies based on substrate selected

### Substrate analysis

Substrate	NRC Range
Air Mesh	0.75 (with $\geq 7.5"$ open air plenum)

### Felt -Substrate analysis

	9mm	12mm	18mm	24mm
Direct-applied	0.3	0.41	0.6	.069
2" air gap		0.77	0.85	0.89
2" filled (**)		0.95		1.0
4" air gap		0.86	0.92	0.96
8" air gap		0.94	0.97	1.0
(**) 'filled' uses Recycled Cotton or Mineral Wool batting in assembly (***) Analysis is based on Slat Profiles that allow for $\geq 22\%$ open space				

## Sustainable Attributes

- Made from rapidly renewable bamboo (harvested at 5 years harvesting cycles; naturally regrows from root)
- Carbon neutral product
- Zero-carbon manufacturing
- Non-detectable VOC and Formaldehyde emissions (CDPH compliant)
- Made from 'solid' bamboo material (as opposed to potentially carcinogenic particleboard substrate products)
- Sustainable supply chain

## Environmental Certification

- EPD – compliant with ISO 14025 and EN 15804
- Declare – Red List free (third party verified)
- ISO 14001 Certified Environmental Management
- Health Product Dec
- FSC-certified (available)

## Green Building Certification

Sustainable Materials products meet criteria for WELL, LEED, Green Star, and BREEAM building rating systems, helping you achieve certification for your project. For support and guidance on available rating system points please visit [www.SustainableMaterials.com](http://www.SustainableMaterials.com), or speak with your Sustainable Materials account manager.

## Product Testing Specifications

**Formaldehyde emission:** ND [Non-Detectable] – (per EN 717-1, ISO 16000-9, ISO 16000-6)

**TVOC:** ND [Non-Detectable] – (per ISO 16000-9:2006/6:2011/3:2011)

**Fungus Resistance:** Grade 0 (per JIS Z 2911)

**Bending strength:** 111.75 N/mm<sup>2</sup> (per EN 310)

**Modulus of Elasticity:** 9750 N/mm<sup>2</sup> (per EN 310)

**Screw retentivity rate:** Edge withdrawal (Long side): 31N/mm<sup>2</sup>; Edge withdrawal (Short side): 36 N/mm<sup>2</sup>; Surface withdrawal: 44 N/mm<sup>2</sup> (per EN 13446)

**Water absorption rate:** Change in length: ± 0.9 mm/m / Change in thickness: ± 1% (per EN 318)

**Brinell hardness (HB):** 30 N/mm<sup>2</sup> (per EN 1534)

**Certification availability:** Forestry Stewardship Council (FSC)

**Fire-resistant:** available as Class B-s1, d0 (per EN 13501); Class "A" (per ASTM E84)

