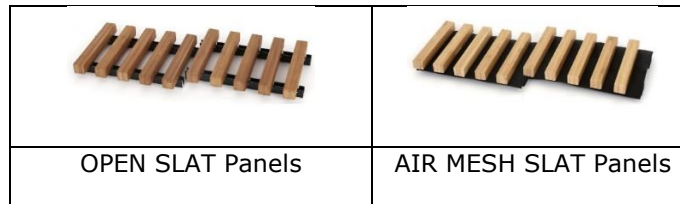# CoreBOO™ SLAT Panels – Installation Instructions for "Ceilings"

The **CoreBOO™ SLAT Panels** are often installed via a hanging installation method, wherein the panels are attached to hanging frame that is constructed onsite. This is typically done to visually 'drop' the ceiling or to boost the systems' ability to control or absorb the sound within space. For the purposes of this installation sheet, we are focusing on this installation method.

The typical CoreBOO™ SLAT Panels that often get installed via this method are the **OPEN SLAT Panels** and **AIR MESH SLAT Panels.**

OPEN SLAT Panels	AIR MESH SLAT Panels

(*) See additional notes on Page 3 for specific CoreBOO™ product version considerations.

General pre-installation considerations and guidelines:

- **Bamboo as a 'natural' material** - Bamboo is a natural product that naturally and inherently varies in color and grain, so this is expected, and would not be considered a defect. It is suggested that prior to installation, all the material is opened, unpacked, and collectively examined to determine the most desirable arrangement for the installation. If you question the color, finish, or any other part of the assembly as it was supplied, contact Sustainable Materials before the beginning of the installation process. **Note:** physical 'installation' of the CoreBOO™ material is considered formal acceptance of the material in its' delivered state.

- **Acclimating** - Material should be delivered to the jobsite and acclimated for at least 72 hours prior to installation, and with the space having a stable environment, and please note that 'acclimating' is NOT a function of time, but rather equalized moisture content of the material relative to the space it is being installed. **Note:** If you have any questions about 'acclimation', please view our "Acclimating" reference guide under "Resources" on the Sustainable Materials website, and if you still have questions, please let us know.

- **Conditioning the space** – The CoreBOO™ products should be installed only when the space is being 'conditioned', meaning the HVAC system is running, and the conditions are equalized to ongoing equilibrium conditions (consistent temperature and humidity). Recommended equilibrium conditions are between 60-70˚F with a relative humidity between 40-60%; and this should be maintained prior to installation, during it, and throughout the year, as not only does this help ensure there is not excessive movement with the CoreBOO™ material, but also it tends to be an ideal range for maintaining healthy indoor air quality. **Note**: Fluctuating conditions outside of this equilibrium range can lead to excessive movement, which is not considered a manufacturing defect.

- **Site preparation** – In addition to ensuring the temperature and relative humidity are ideal for the installation, it is also critical to ensure the space is clean, adjacent surfaces are painted, and the material is installed as if no additional site work will be completed after it's installation. Though more relevant in 'direct glue' applications, the wall surfaces and areas should be primed or sealed, and free of dust and debris. **NOTE:** it is especially important to ensure the space and product is kept clean when the AIR MESH Slat Panels are used. The "AIR MESH" technology revolves around allowing air and sound waves to transmit through the woven membrane, and bounce around above, and if the 'membrane' is soiled, it can inhibit the functionality of its placement.

- **Code compliance** – It is recommended to review and follow the tolerances and guidelines as provided in the ASTM C636 document, which summarizes the standard practices for suspension ceiling installation. If you would like a copy of this, please let your Sustainable Materials representative know.

Note: With any product used on a ceiling in a commercial application, it is best practice to analyze applicable local Codes and/or consult with a fire protection engineer, as panel placement may affect sprinkler activation and subsequent water flow when operable. These considerations are out of the scope of these installation instructions.

- ***General Note on this document -*** These installation instructions are meant as general guidelines to help the installation contractor with site preparation, product considerations and general techniques, but the final decisions and methods selected are theirs (liability and otherwise) based on specific site conditions and goals of the installation. ***Sustainable Materials is not liable for anything related to supplemental components used in the installation, product movement or changes related to variable site conditions, and the method and procedure(s) used to install the CoreBOO™ products***.

General 'Installation' guidelines:

The CoreBOO™ Slat Panels get installed on a ceiling in a 2-step process, that includes installing the Beam support structure (ie: Main Beam and Cross Beam) and then mounting the actual panels to the bottom of the Cross Beam (either using 'backer' clips or screws, typically determined by panel weight).   The slats on the panels are installed perpendicularly to the Cross Beams and parallel with the Main Beams

Parts:

Expansion Bolt Head	Expansion Bolt	Screw Rod	Main Beam	Cross Beam

Beam Support Structure and CoreBOO™ Panel Installation

> ***NOTES:***
> - Refer to the reflected ceiling plan to determine the panel orientation, suspension system layout (inclusive of the finished height where the panels should sit, and whether any of the panels will need to be cut in the field.
> - Ensuring the Beams are mounted 90° to the subsequent beam or panel is critical or the panels will be mis-aligned.
> - Install the 'cross' beams, so they intersect with the main beams at 90 degrees, so they are perpendicular.
> - Follow the 'shop drawings' for panel placement and spacing guidelines.

Layout the Main Beam:

- Determine location and orientation of the Main Beam(s).
- Pre-drill and set the Expansion Bolts with Expansion Bolt Head into the concrete ceiling (Note: ensure proper alignment as you proceed).

Connecting the Anchor to the Main Beam:

- Cut the Screw Rod to measured length making sure to account for the depth of the full system.
- Thread the sized screw Rod into the bottom of the Expansion Bolt.
- Secure the Screw Rod with nuts on bottom and top of the Main Beam.
- Once all the Screw Rods are attached to the Main Beam(s), level the panels by adjusting the nuts to ensure the Main Beam(s) lie horizontally and are level.

Connecting the CoreBOO™ Slat Panel to the Cross Beam

- Connect the underside of the Cross Beam with the included screws along the predrilled black backer strips of the CoreBOO™ Slat Panel(s)
- Continue this process until all the CoreBOO™ Slat Panels are effectively 'one unit' with the Cross Beam.

Connecting the CoreBOO™ Slat Panel and Cross Beam assembly (herein referred to as 'Panel Assembly') to the Main Beam:

- Once the Cross Beam is secured into the backer strips on the panel, then connect via snapping the Cross Beam into the Main Beam.
- Install the 'Panel Assembly' pieces in 'sequence (adjusting 'level' as necessary).

Supplemental Fastening of Vertical Slats to Hanging Panels:

- Line Up Vertical Slats to the corresponding Horizontal slats.
- Once vertical slat is lined up under horizontal slat mark the floor and drill metal plate into floor.
- Vertical slat will then be secured to metal plate on the floor.
- After Vertical slat adhered to the floor, predrill and then screw the Vertical slat(s) to the applicable Horizontal slat

Care and Maintenance Instructions

Cleaning

- Blot up spills and spots immediately (Standing or trapped moisture can penetrate the CoreBOO™ 'Panels', which can cause irreversible discoloration and damage).
- Lightly vacuum and/or dust the wall to minimize abrasive grit and dirt. *Note: Do not use vacuum with beater bars, or anything that could act as an abrasive.*
- If more vigorous cleaning is needed, you can clean the wall with BonaX surface cleaner available from your local hardware store or www.bona.com. *Follow the instructions provided, but the use of a Terry cloth is typically recommended to prevent scratching or marring the wall surface.*
- ALWAYS WIPE DRY IMMEDIATELY until no moisture is visible on the wall. Do not use wax, polish, oil soap, abrasive cleaners, steel wool, scouring powder, or ANY appreciable amount of water.
- Do not use wet mops, wet scrubbers or steam cleaners as these products may cause irreversible discoloration and damage.

Protecting Your Investment

- Your newly installed CoreBOO™ 'Panels' are made from natural wood fibers and therefore are subject to change from excessive moisture, or nonconforming environmental conditions. Remove any applied water immediately and maintain an indoor relative humidity level of 35-55% throughout the year.

If you have any questions about the installation and/or care and maintenance process, please contact your CoreBOO™ representative.