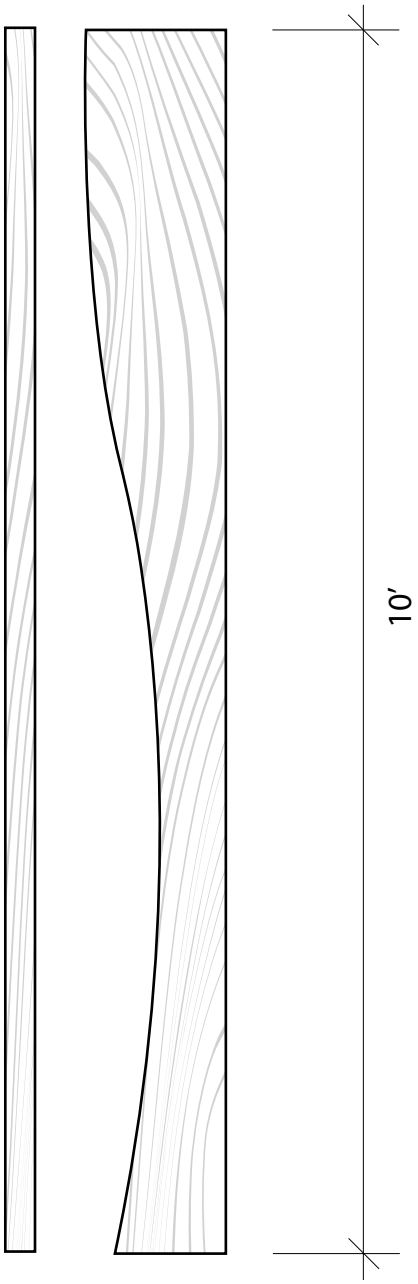
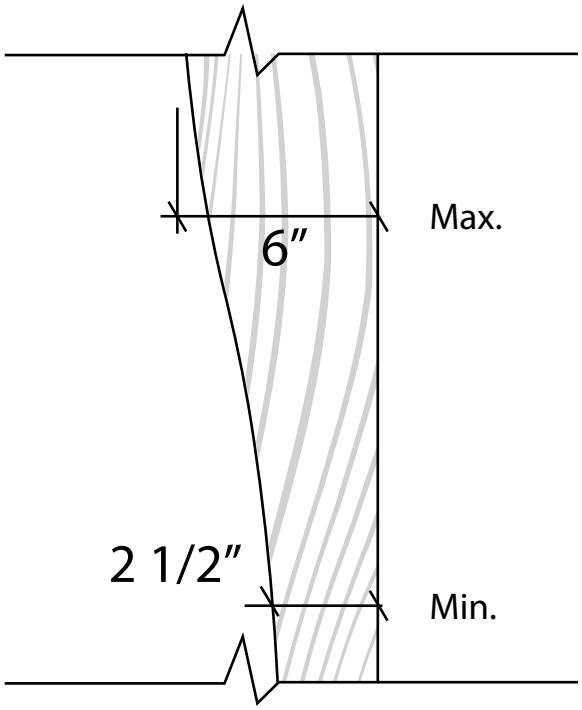
Parametric Slats Data Sheet.

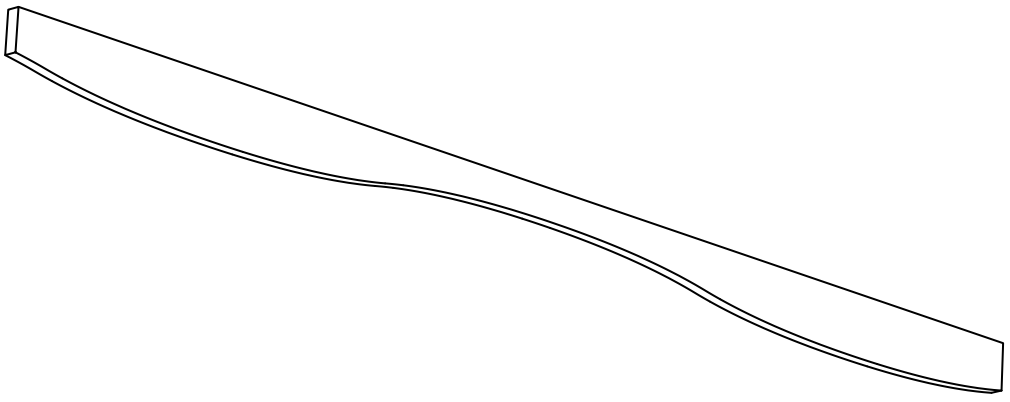
Sectis Parametric Slats are made of members up to 10' long on a single slat, 3/4" or 1" thick, with a maximum depth of 6" and a minimum depth of 2 1/2". There is a 2 11/16" space between them. **Custom slat profiles and spacing configurations are available to accommodate project-specific design requirements.**

Product Description.

Sectis Parametric Slats are architectural linear elements designed to create sculptural surfaces for walls and ceilings. Their parametric geometry allows for controlled variation in depth and spacing. Parametric Slats can be installed on walls, ceilings, or suspended applications, depending on the selected mounting system.







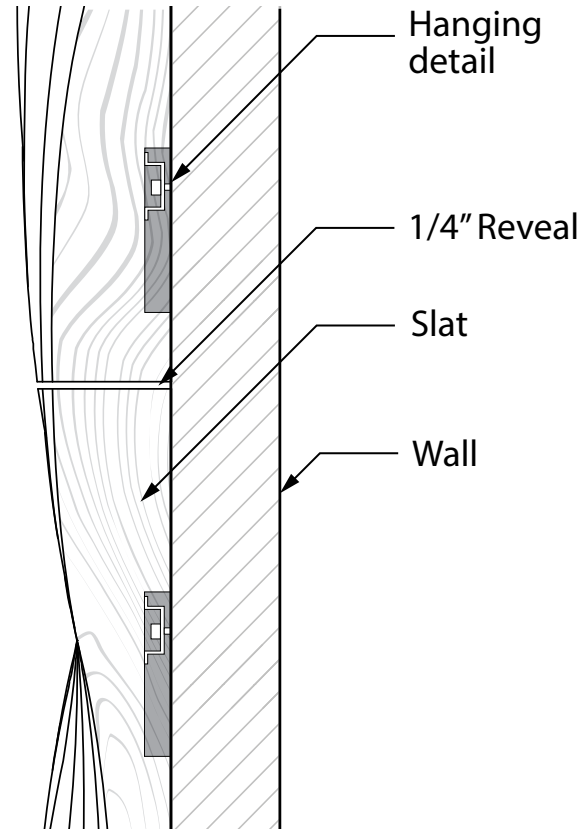
Parametric Slats Data Sheet.

Installation methods

Sectis Parametric Slats support multiple installation methods depending on structural conditions and design intent.

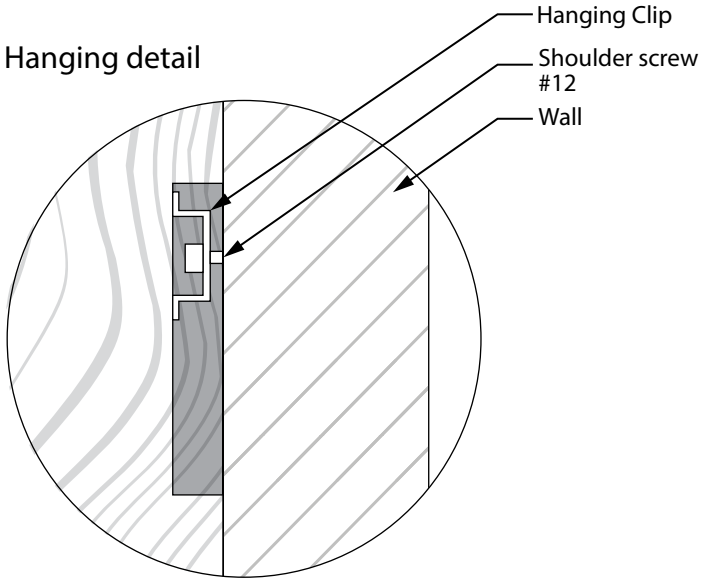
1-Direct Attachment to Wall.

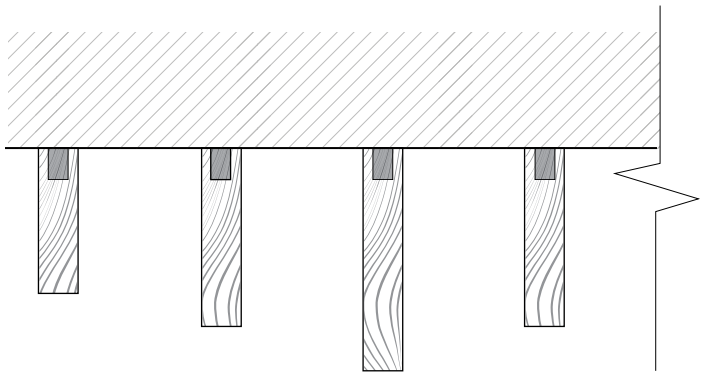
Each slat includes concealed clips on the back. These clips lock into shoulder screws installed on the wall surface (one screw per clip). Shoulder screws are positioned using the installation template provided, ensuring accurate alignment and spacing between slats. A 3/8" plywood backer behind drywall is recommended to provide secure anchoring and simplify installation. If plywood backing is not available, drywall anchors designed for #12 screws may be used. The anchor face must not exceed 5/8" diameter so it remains concealed behind the slat. **Application: Wall only.**



LEFT VIEW

Blocking (3/8" or thicker) directly behind the drywall with no air gaps. Blocking should be located 6" from the top and bottom of the slat height and spaced up to 32" O.C. in between. Clips and screws for the slats will be provided by Sectis.





TOP VIEW

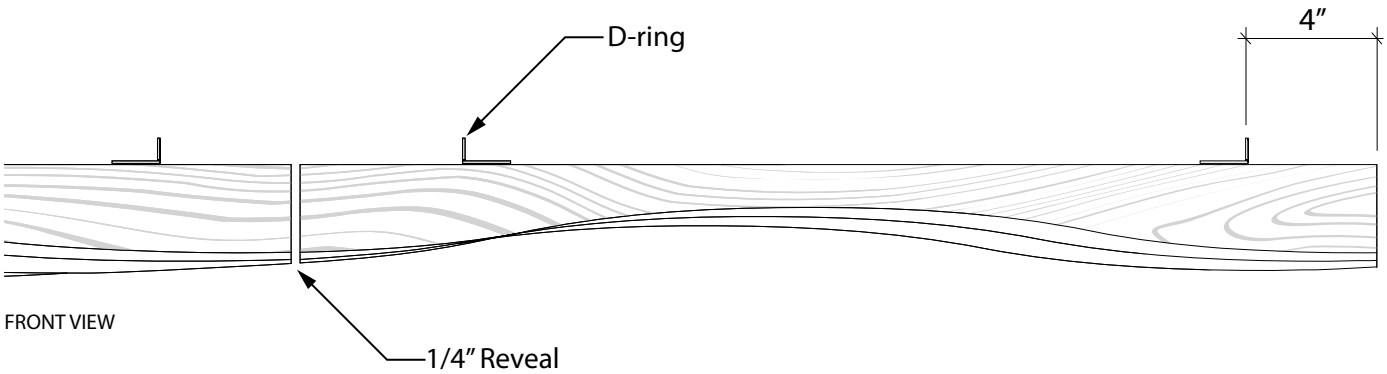
Parametric Slats Data Sheet.

2. D-ring with aircraft cable suspension.

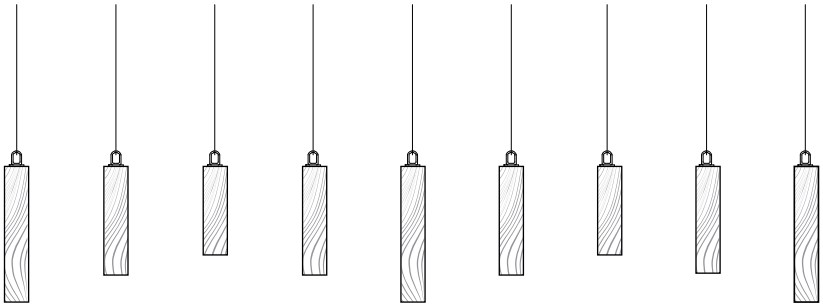
Slat panels are suspended using D-rings connected to adjustable cables anchored to the structural ceiling. This method creates a floating installation, allowing the panels to hang below the ceiling plane and enabling airflow and lighting integration above the system. **Application: Ceiling only.** Sectis only provides D-rings already installed at the slat.

D-ring suspension requirement.

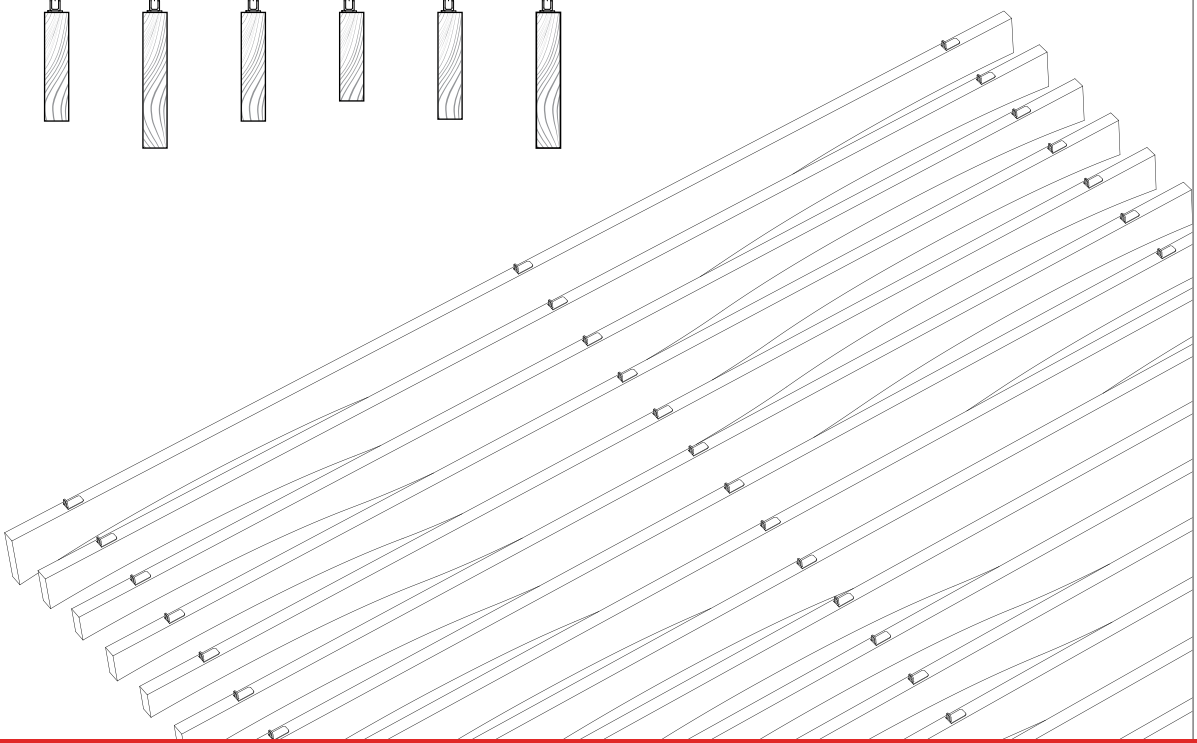
Slats shall be suspended using metal D-rings positioned along the length of each slat to ensure proper load distribution and alignment. For slats with an overall length greater than 60 inches, a minimum of three (3) D-rings per slat shall be provided. For slats with an overall length of 60 inches or less, two (2) Drings per slat shall be used. Drings must be evenly distributed along the slat to maintain structural stability and consistent suspension performance. A slat weighs between 5 and 15 pounds.



FRONT VIEW



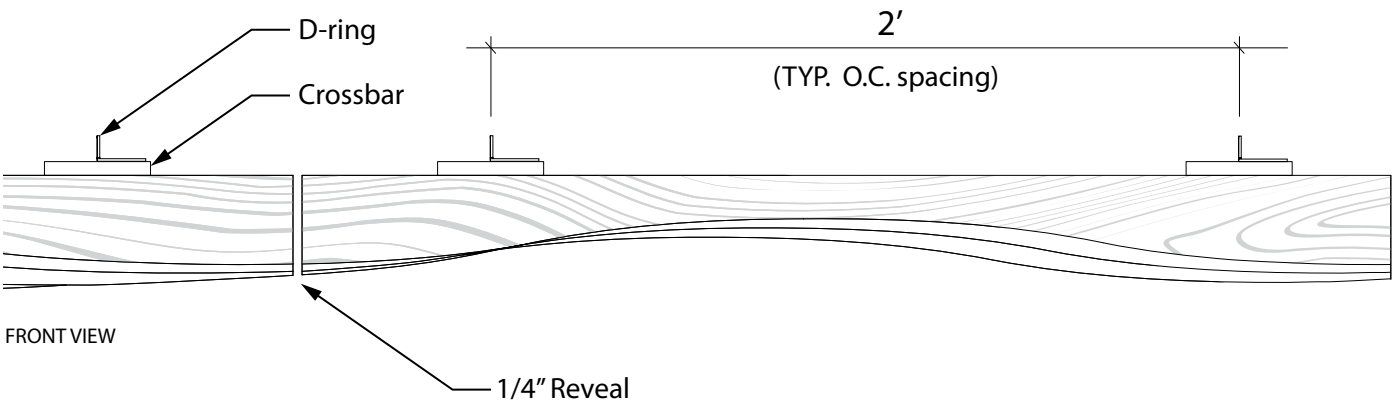
SIDE VIEW



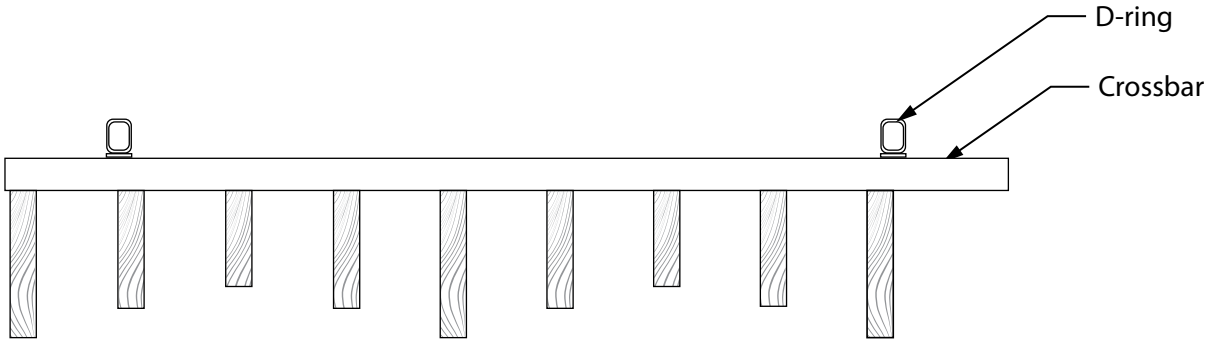
Parametric Slats Data Sheet.

3. D-Ring Attached to Crossbar.

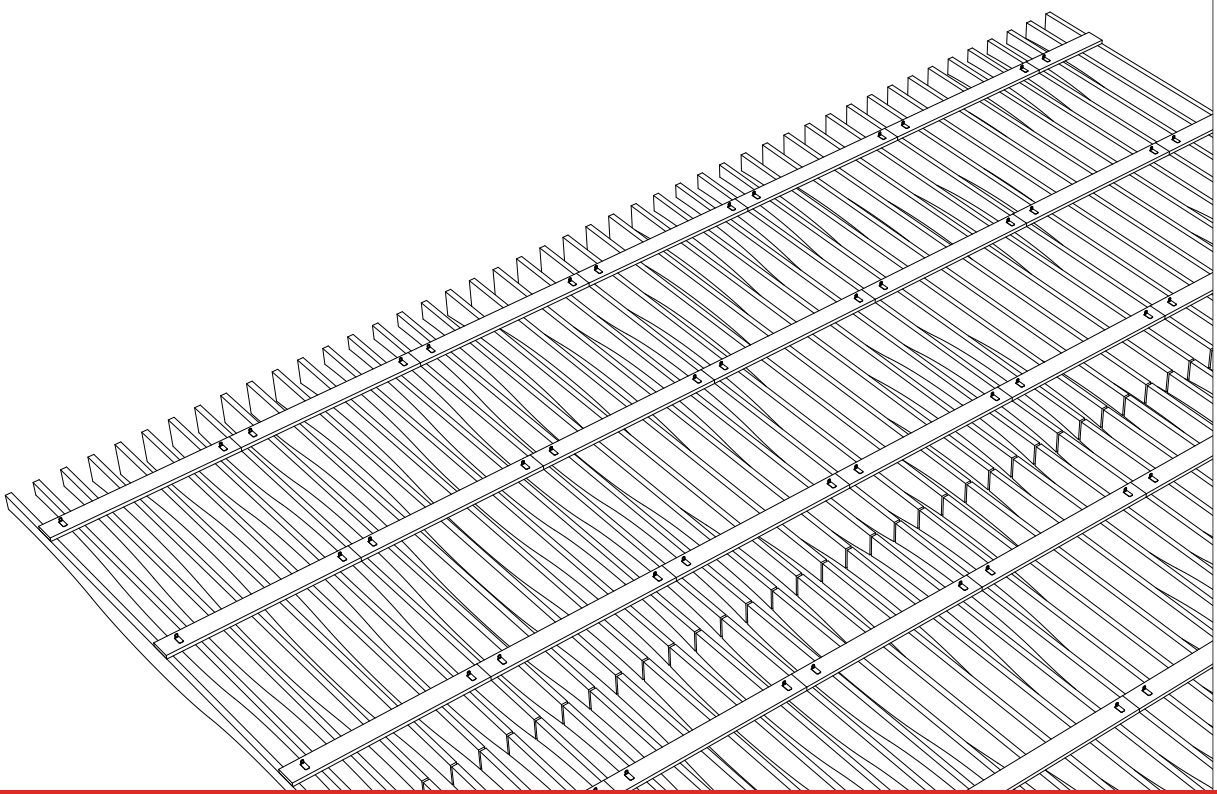
The slats are mounted on a crossbar frame, and D-rings are fixed directly to the crossbar structure. Suspension cables connect the D-rings to the ceiling structure. This method provides greater rigidity and alignment when installing larger panel assemblies. **Application: Ceiling only.**



FRONT VIEW



SIDE VIEW

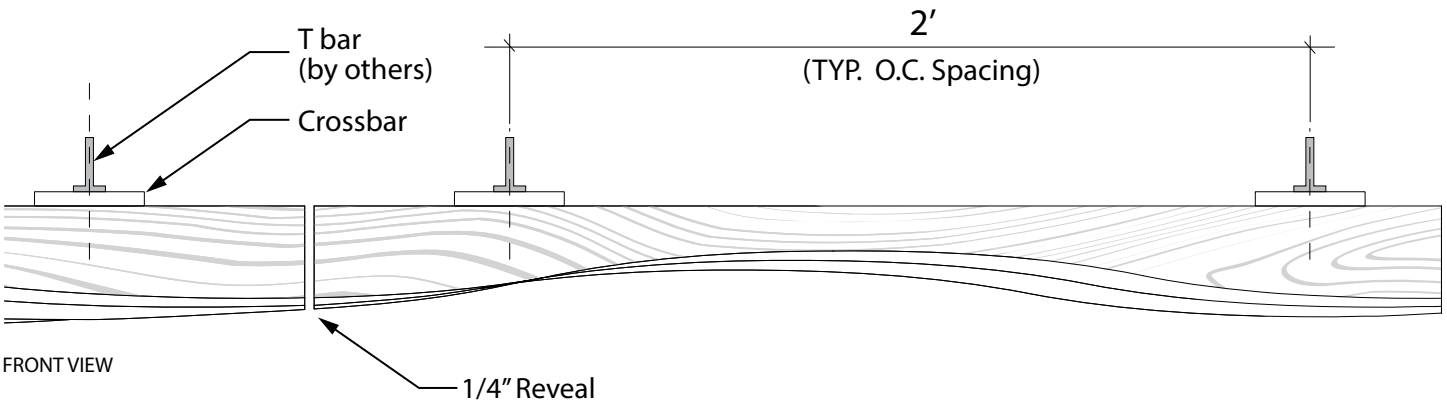


Parametric Slats Data Sheet.

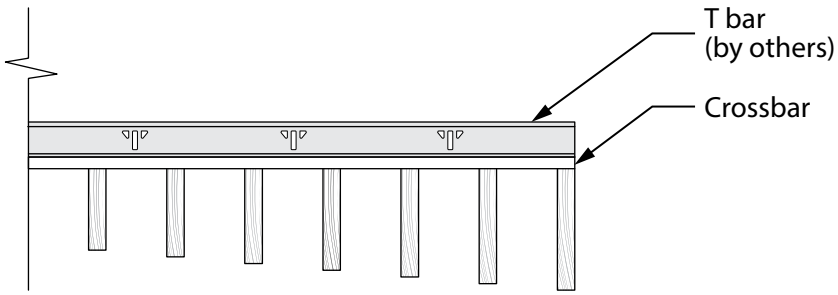
4.Crossbar Mounted to Main T-Bar Grid.

Crossbar panels are fastened directly to the main T-bars of a suspended ceiling grid system. The crossbars are aligned to the main T-bars, typically spaced 2 ft on center, allowing the system to integrate with standard ceiling grids.

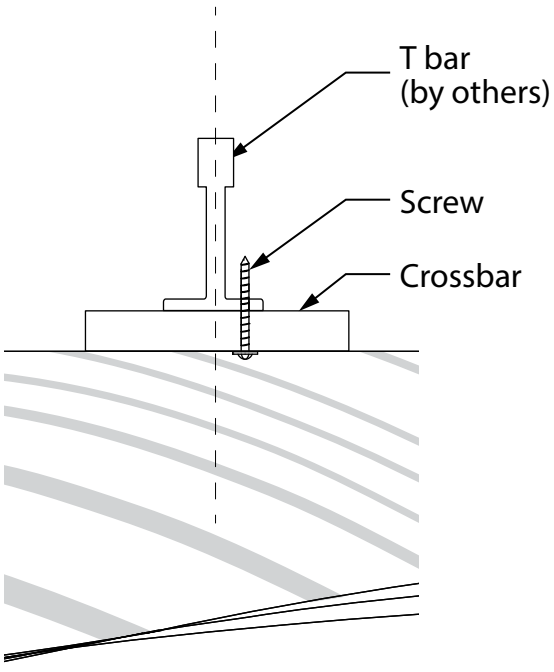
Application: Ceiling only.



FRONT VIEW



TOP VIEW



5. Crossbar Directly Mounted to Wall or Substrate.

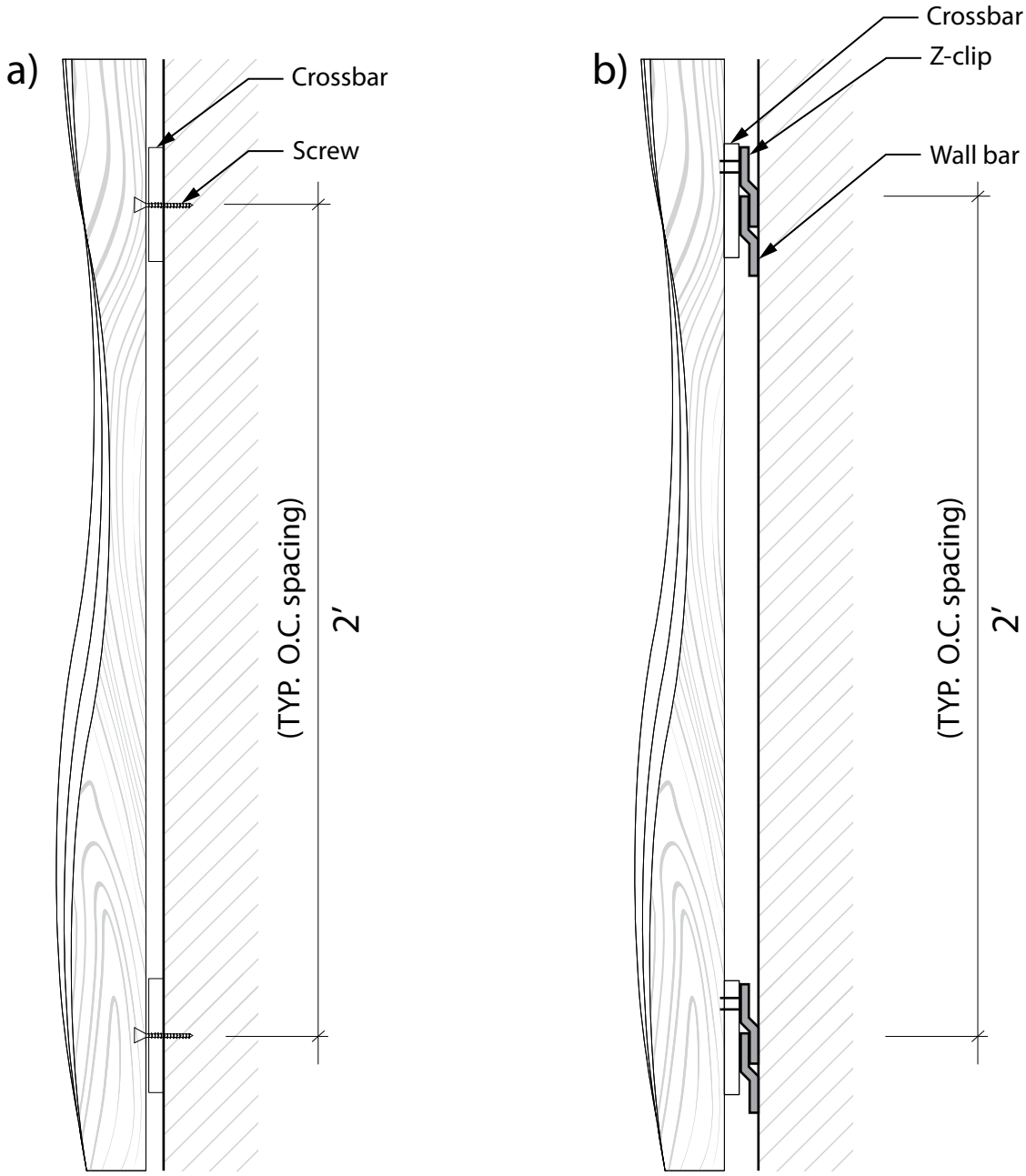
a)The crossbar structure is mechanically fastened directly to the wall or ceiling substrate using appropriate anchors or screws. For drywall installations, proper structural backing is required. Substrate requirements:

- Plywood backing, or
- Metal or wood blocking installed behind drywall.

For ceiling installations, fasteners should anchor into studs, joists, or structural framing to ensure adequate support.

Application: Walls and ceilings.

b)Z-Clip + Crossbar installation method utilizes concealed Z-clips in combination with horizontal crossbars to provide a secure, aligned, and demountable mounting system for parametric slats. Z-clips are mechanically fastened to the back of each slat and correspond to mating clips fixed onto continuous crossbars. These crossbars are anchored to the substrate or structural support system (such as walls, or backing structures), ensuring proper load distribution and alignment. Up to 60": typically two (2) Z-clips. Over 60" and up to 120": typically four (4) Z-clips. **Application: only wall instalations**



Parametric Slats Data Sheet.

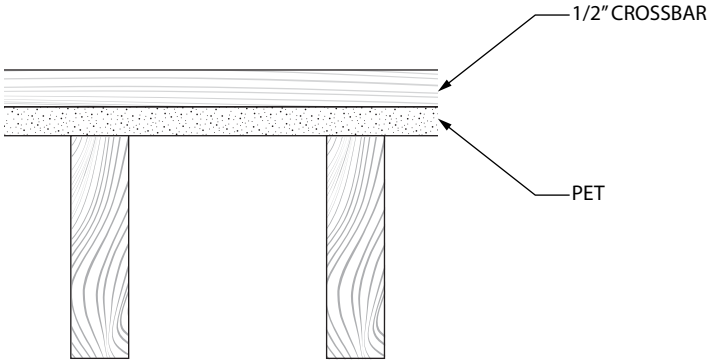
Backer options.

PET Acoustic Backer.

High-density PET acoustic felt panels made from recycled polyester fibers provide sound absorption and help reduce reverberation within interior spaces. PET panels are lightweight, durable, and available in multiple colors.

Suitable for:

- Wall installations
- Ceiling installations

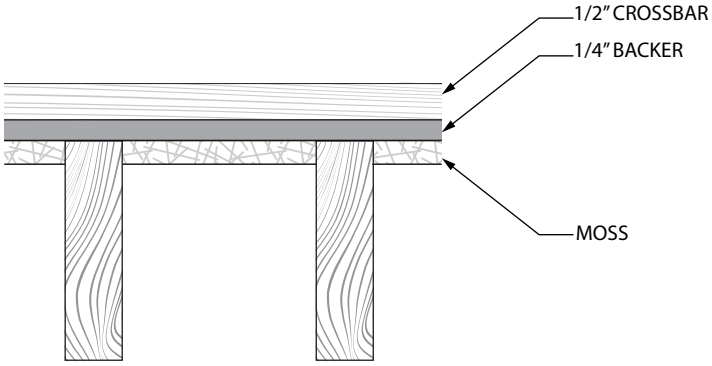


Moss Backer.

Preserved natural moss panels introduce biophilic design elements and organic texture. Moss requires no watering, no natural light, and minimal maintenance.

Suitable for:

- Wall installations.

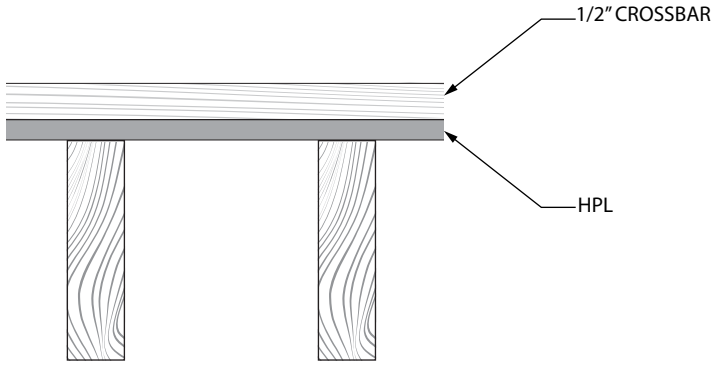


High Pressure Laminate (HPL) Backer.

HPL backers provide a durable architectural finish with strong resistance to wear and impact. Available in a wide range of colors and textures, they allow designers to create strong visual contrasts or seamless material continuity with the slat system.

Suitable for:

- Wall installations
- Ceiling installations



Parametric Slats Data Sheet.

Finishes.

- HPL finishes: Our parametric slat system is compatible with a wide range of High-Pressure Laminate (HPL) manufacturers, ensuring flexibility in design specification and material sourcing. The system can be fabricated using panels from leading industry brands such as Wilsonart®, Formica®, and Egger®, among others

Material Acclimatization.

To ensure proper performance, MDF and particle board components should be acclimated to the interior installation environment before installation. Materials should be stored in the installation space for a minimum of 48 hours prior to installation. This allows the material to adjust to the ambient temperature and humidity conditions.
Materials must be stored:

- in a dry environment
- protected from moisture
- away from direct sunlight

Improper storage conditions may affect the moisture content of the material and impact long-term performance.

Acoustic Performance.

Sectis Parametric Slats contribute to acoustic enhancement through the varying depth of the slat profile, which helps diffuse sound within interior environments.
Acoustic performance can be further improved by installing 9 mm acoustic felt backers between the slats.

Weight.

Standard Sectis Parametric systems weigh approximately:
2.5 lb per square foot
Custom slat profiles, additional backers, or alternative materials may increase the overall system weight.

Fire Rating.

Slat members and components can be treated with Class I (Class A) fire retardant coatings when required by project specifications or local building codes.