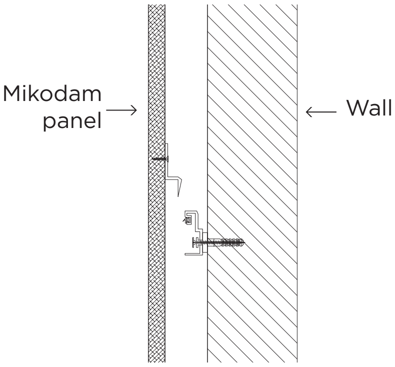
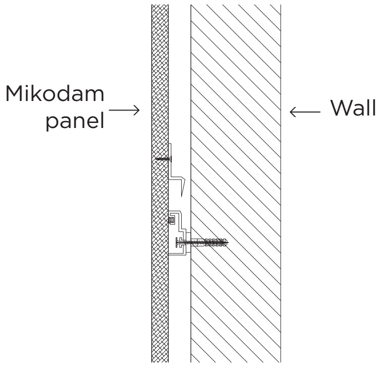
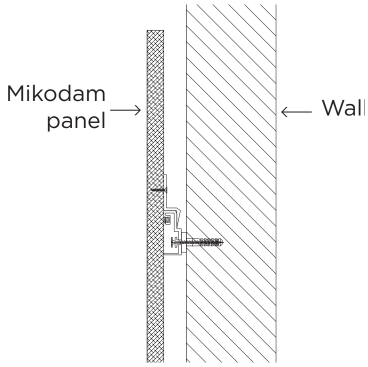
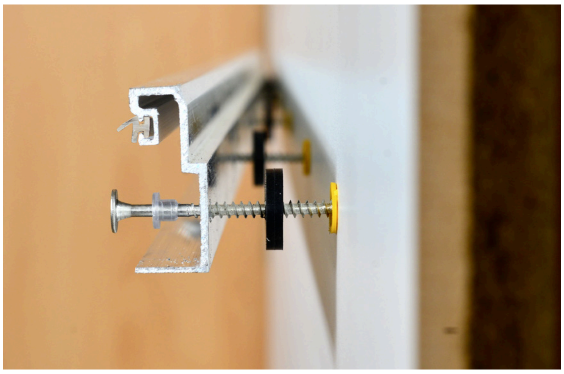
INSTALLATION GUIDE

PANEL INSTALLATION - Wall & Ceiling

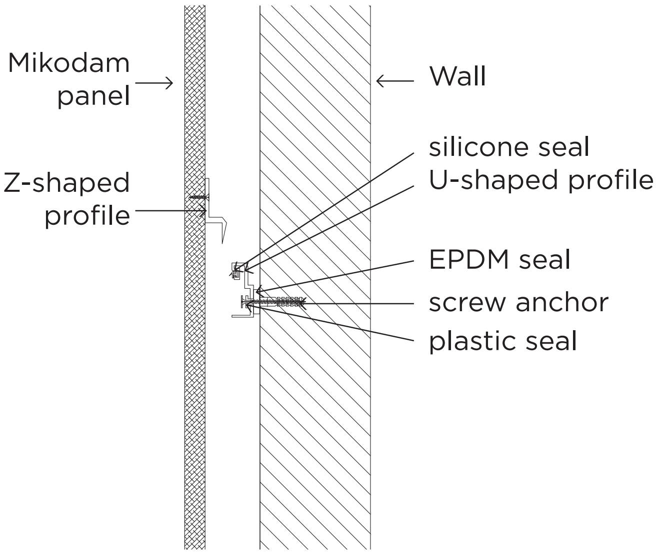








Application is quite easy, the panels are mounted on a rail system and can be changed with another Mikodam panel when desired.

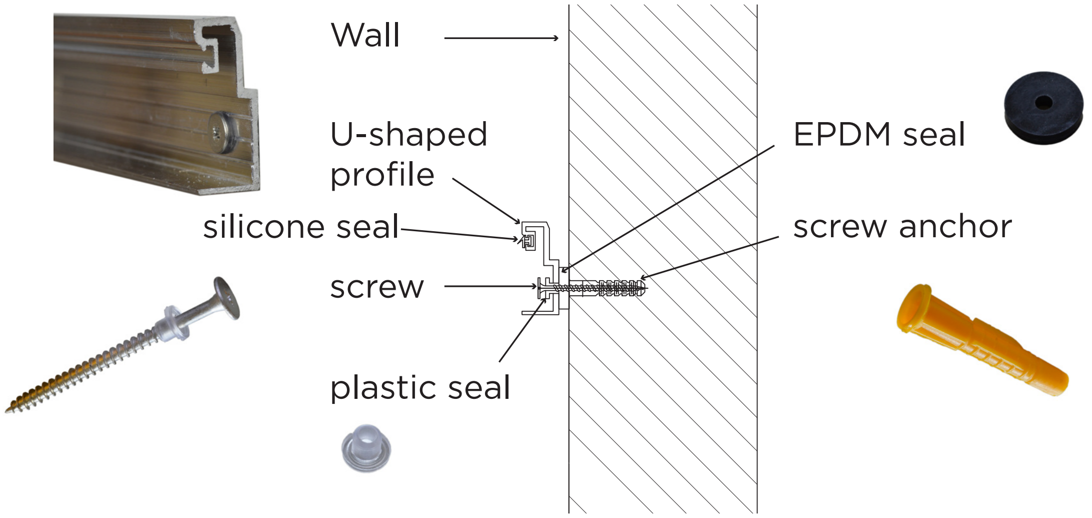


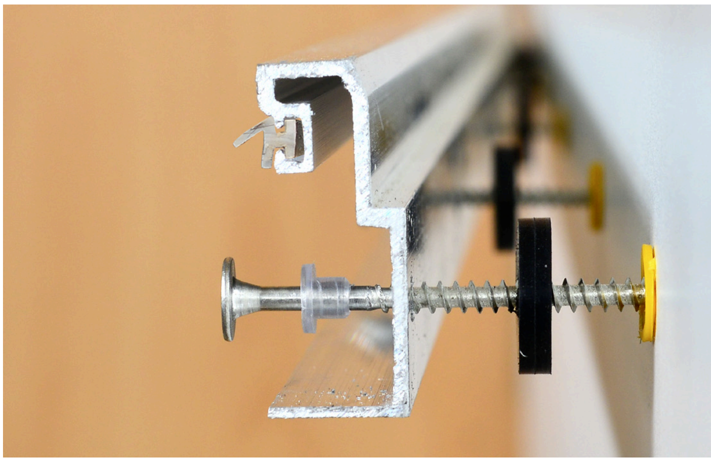
The panels comes with Z shaped hanging profiles on it. During the installation, U shaped hanging profiles are mounted to the wall and the wall panels are assembled to these. The hardware details to be used are shown in the pictures below.

Hardware set for U shaped profiles to be mounted to the wall are included in the package.

Hardware set for U shaped profiles are included in the package.

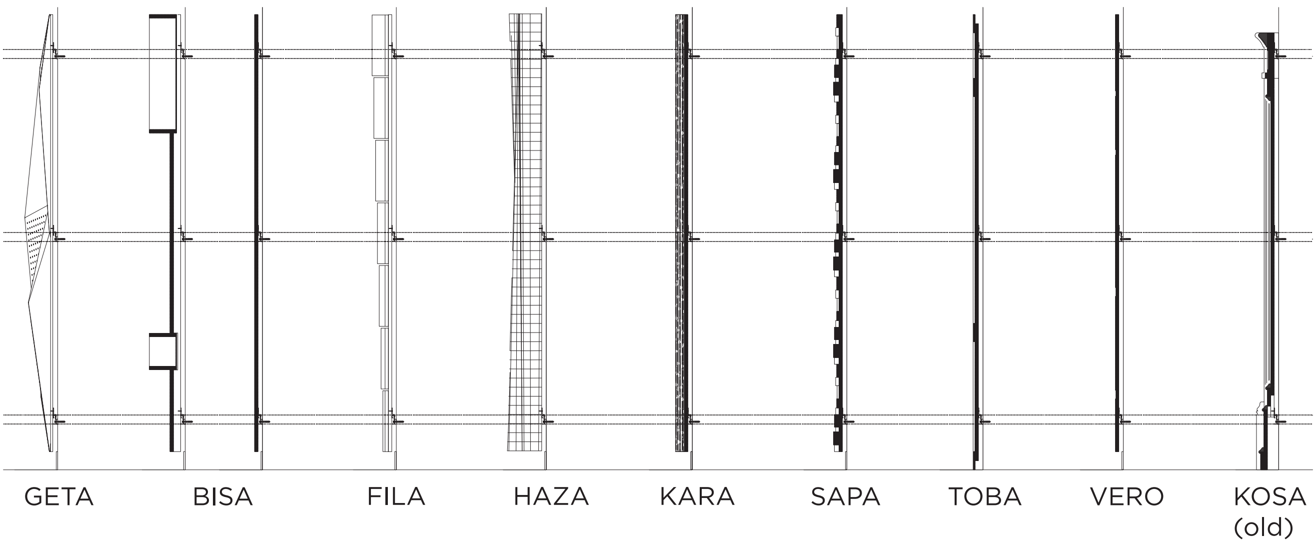
PANEL INSTALLATION - Wall & Ceiling



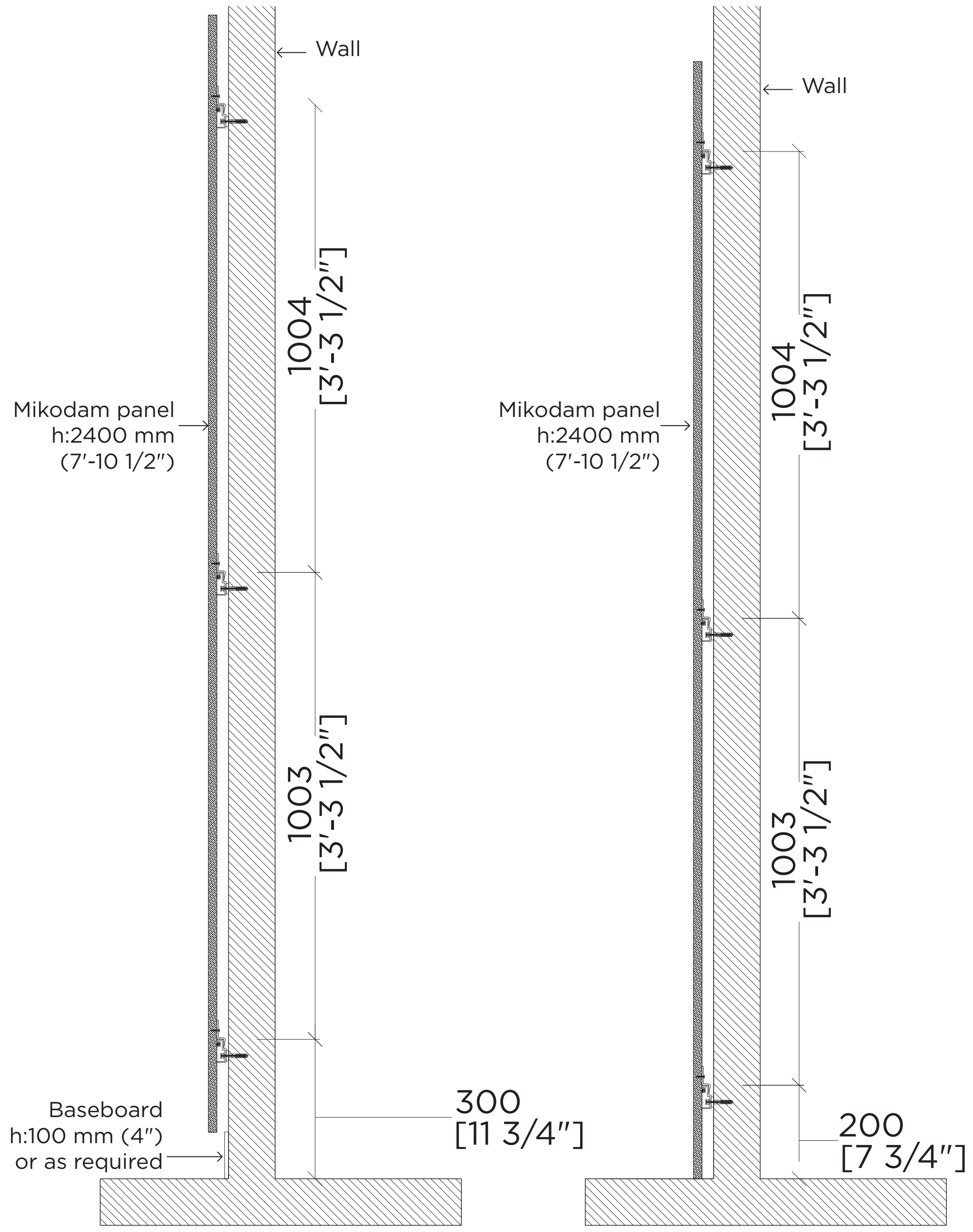


We use 2 seal elements in order to separate metal installation elements from screws. To prevent any direct connection between the wall and the wall panels. This is acoustically required for vibration control from noises coming from the inside or the outside.

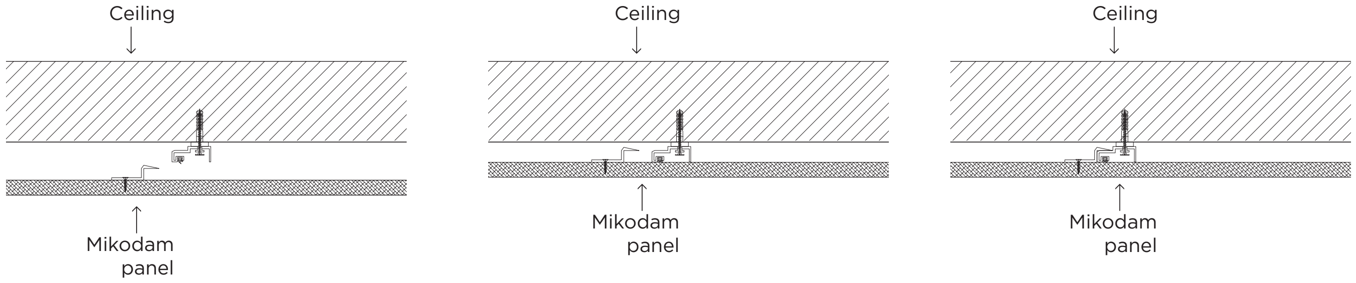
Z shaped hanging profiles are fixed on the panels comes at a standard height so that if you change the panel with another Mikodam panel you will not have to change the position of the U-shaped profile on the wall.



PANEL INSTALLATION - Wall & Ceiling

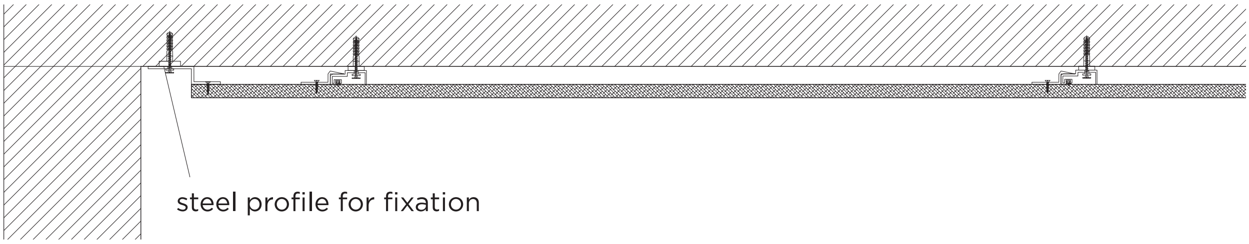


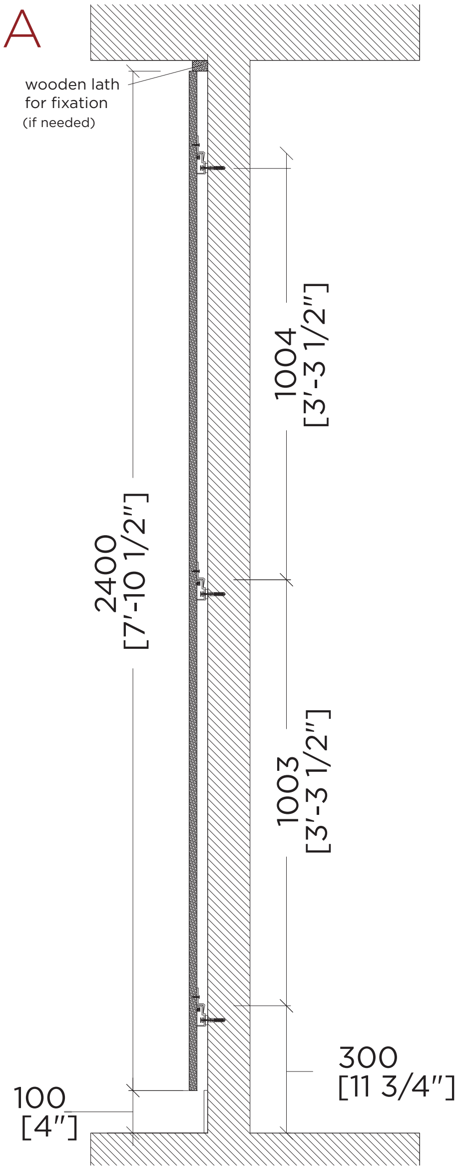
The drawing above shows the standard heights of the U-shaped profiles.
(dimensions given are based on the hole centers)

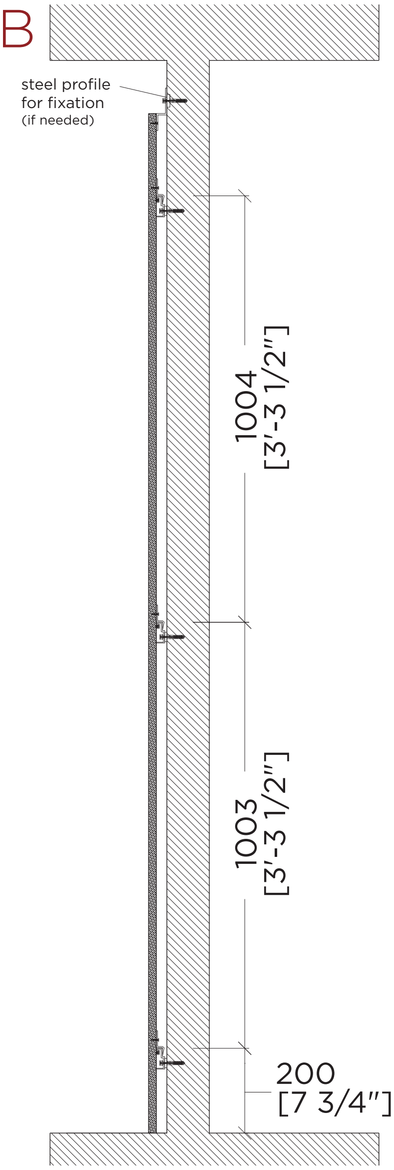


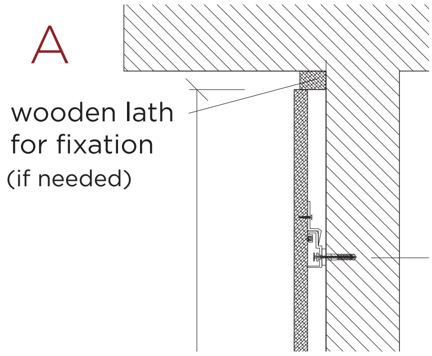
The same railing system can be applied both on walls and on ceilings .

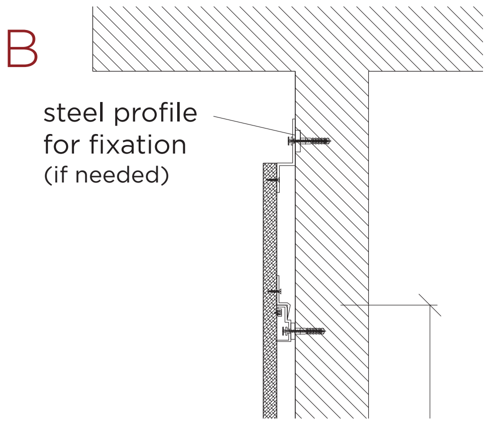
PANEL INSTALLATION - Wall & Ceiling





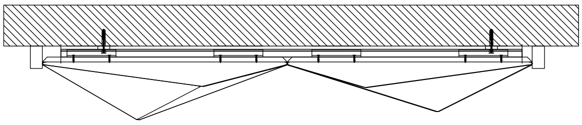


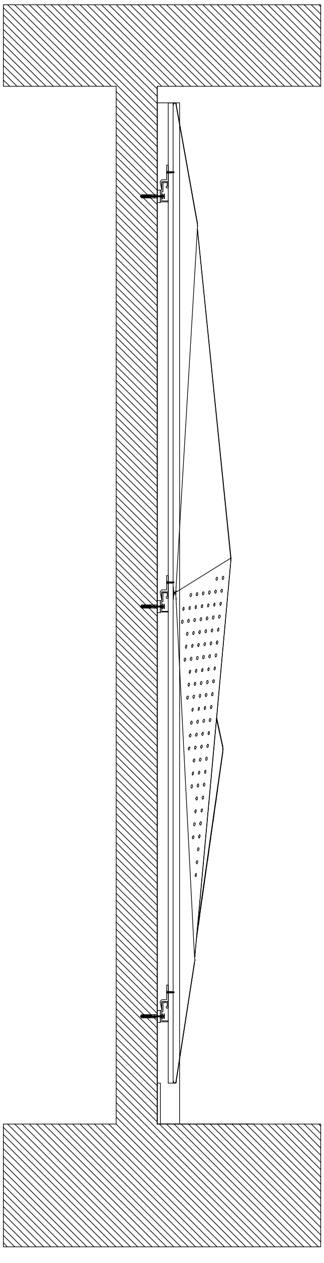




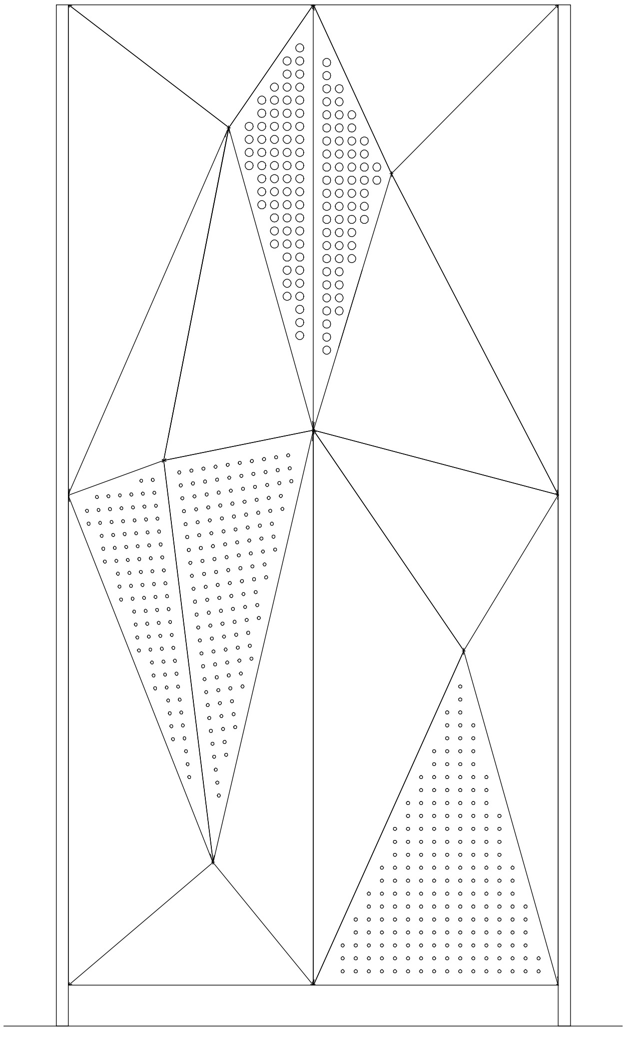
It may be necessary to fix the panels to the wall in order to prevent the panels from dislodging in extreme cases such as earthquakes. We suggest two methods for this. The first is to fix the panel in place by placing a wooden lath between the panel and the ceiling, thus clamping the panel. The second method is to fix the panel to the wall with the help of a metal profile previously mounted on the back of the panel. If the second method is chosen, acoustic seals included in the assembly kit should be used. The second method can also be applied to the last row of the panels installed on ceilings in order to fix them in place.

PANEL INSTALLATION - Wall

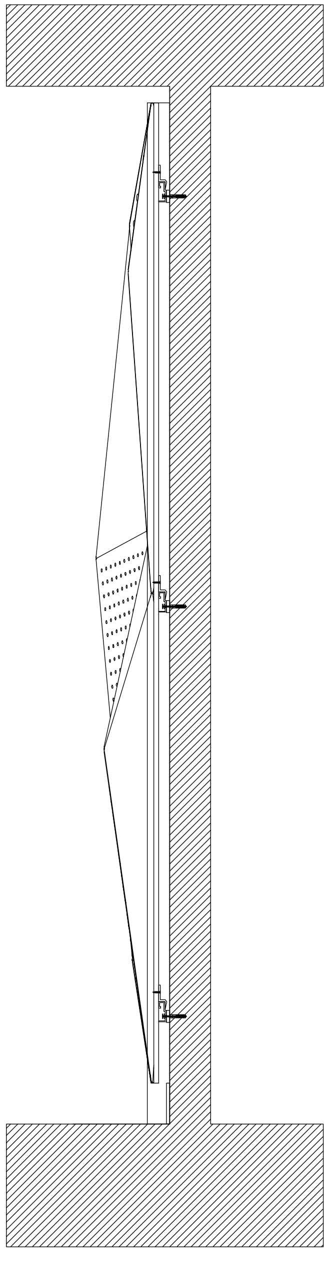




LEFT ELEVATION



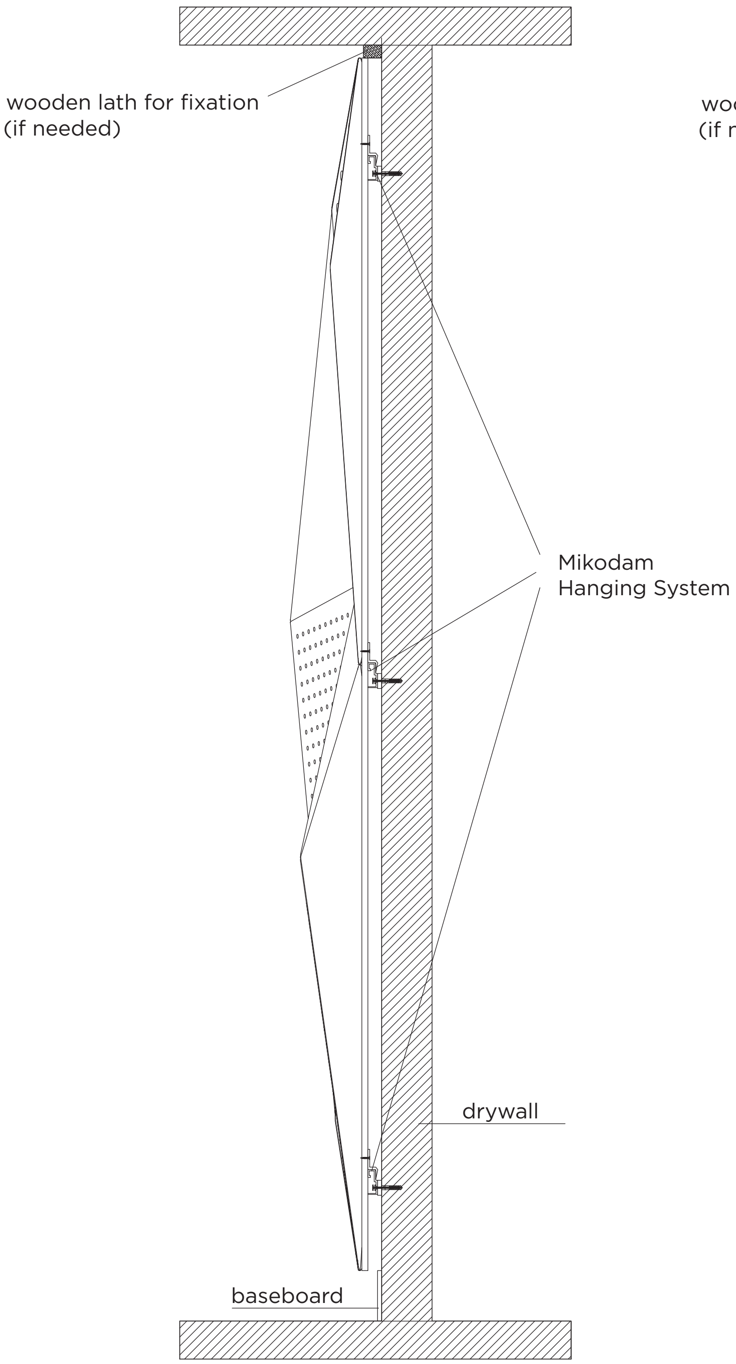
GETA FRONT ELEVATION

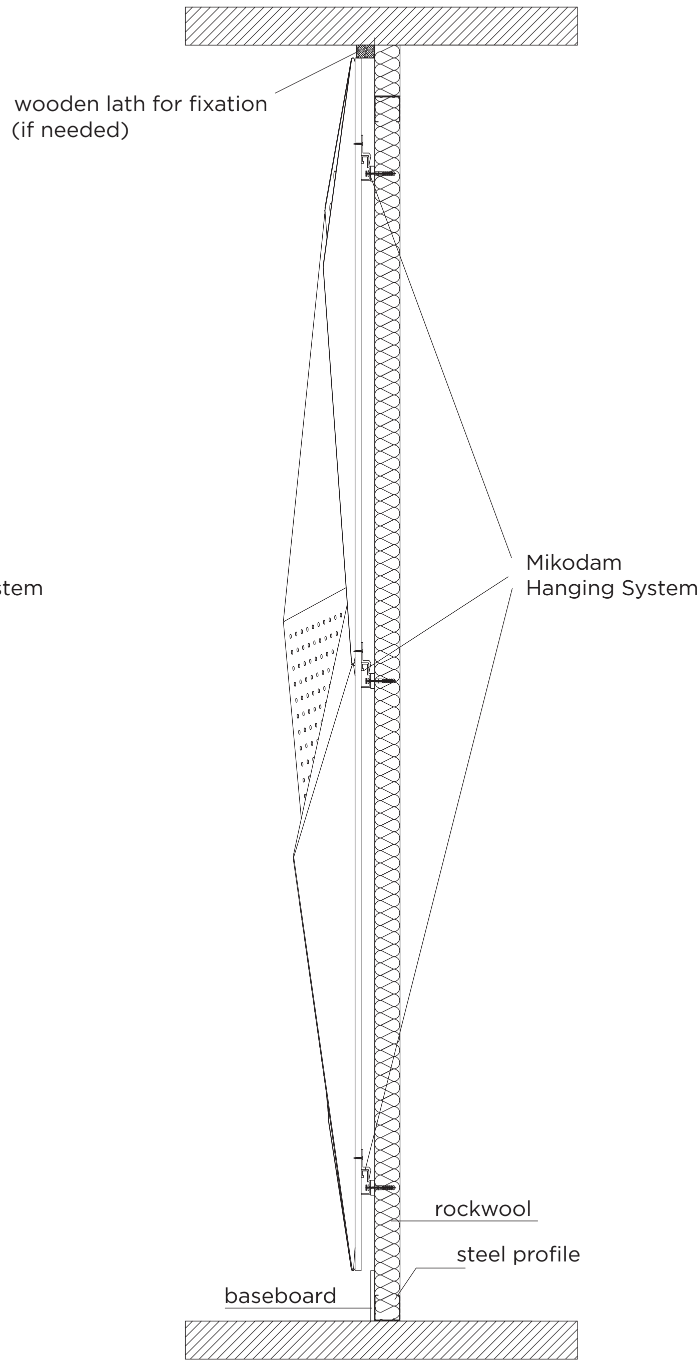


RIGHT ELEVATION

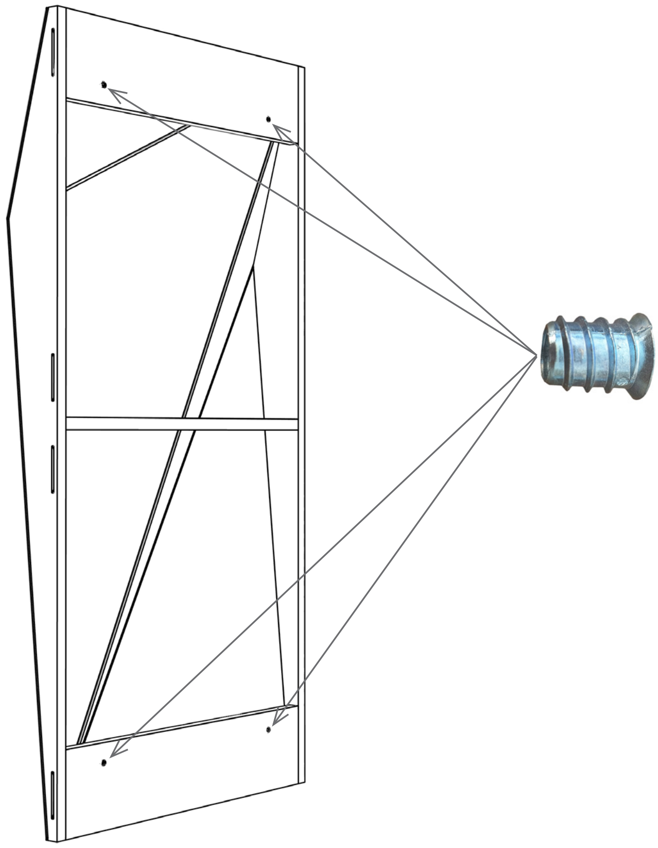
PANEL INSTALLATION - Wall

Our railing system can be applied both on wooden studs & metal profiles/studs. It can also be applied when there is no drywall on the surface an d only studs & rockwool are available.



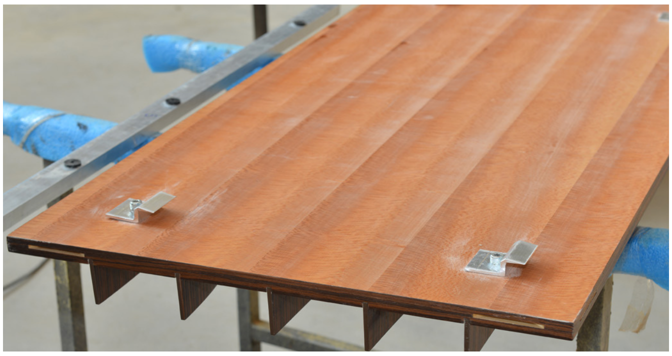


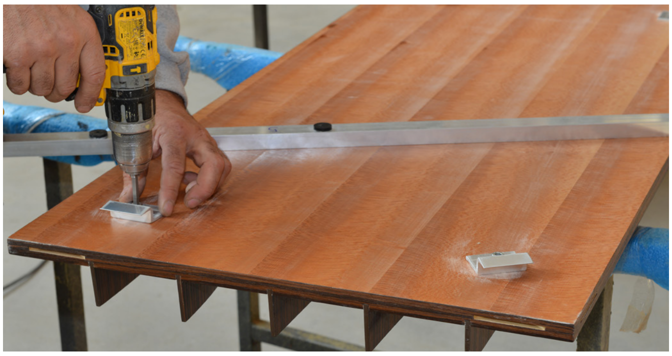
PANEL INSTALLATION - Wall - 60 X 120 cm Panels

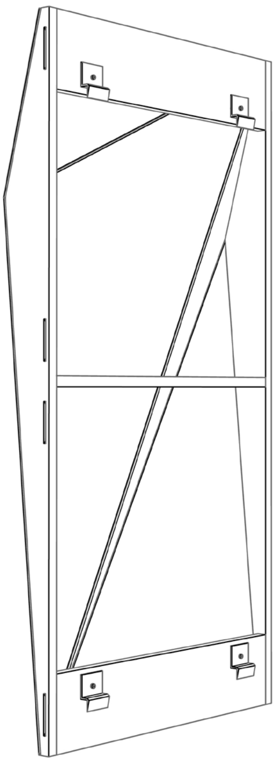


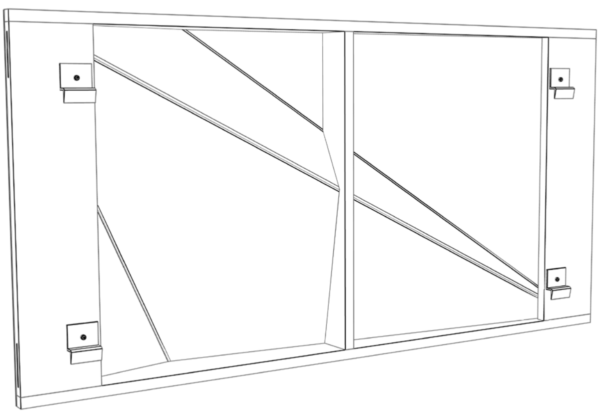
60x120 cm panels come with pre-inserted nuts at the corners on the back of the panel, ready to fix the Z-shaped profiles. Z-shaped profiles, allen bolt, allen key, and lamellos for 60x120 cm panels comes separately as a package.

PANEL INSTALLATION - Wall - 60 X 120 cm Panels





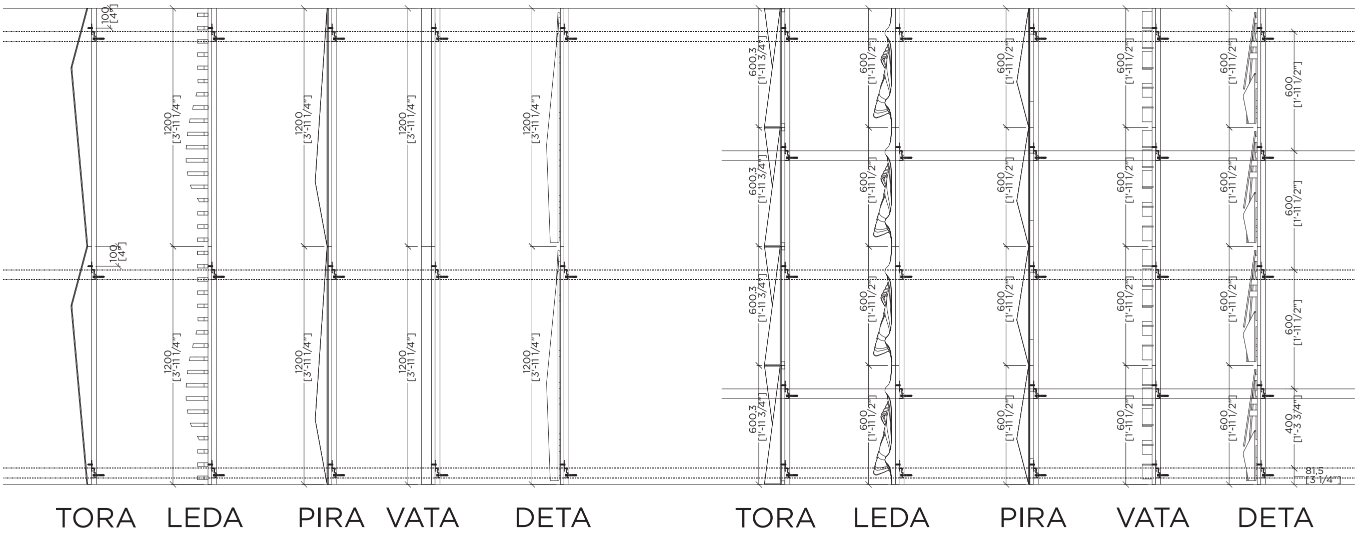




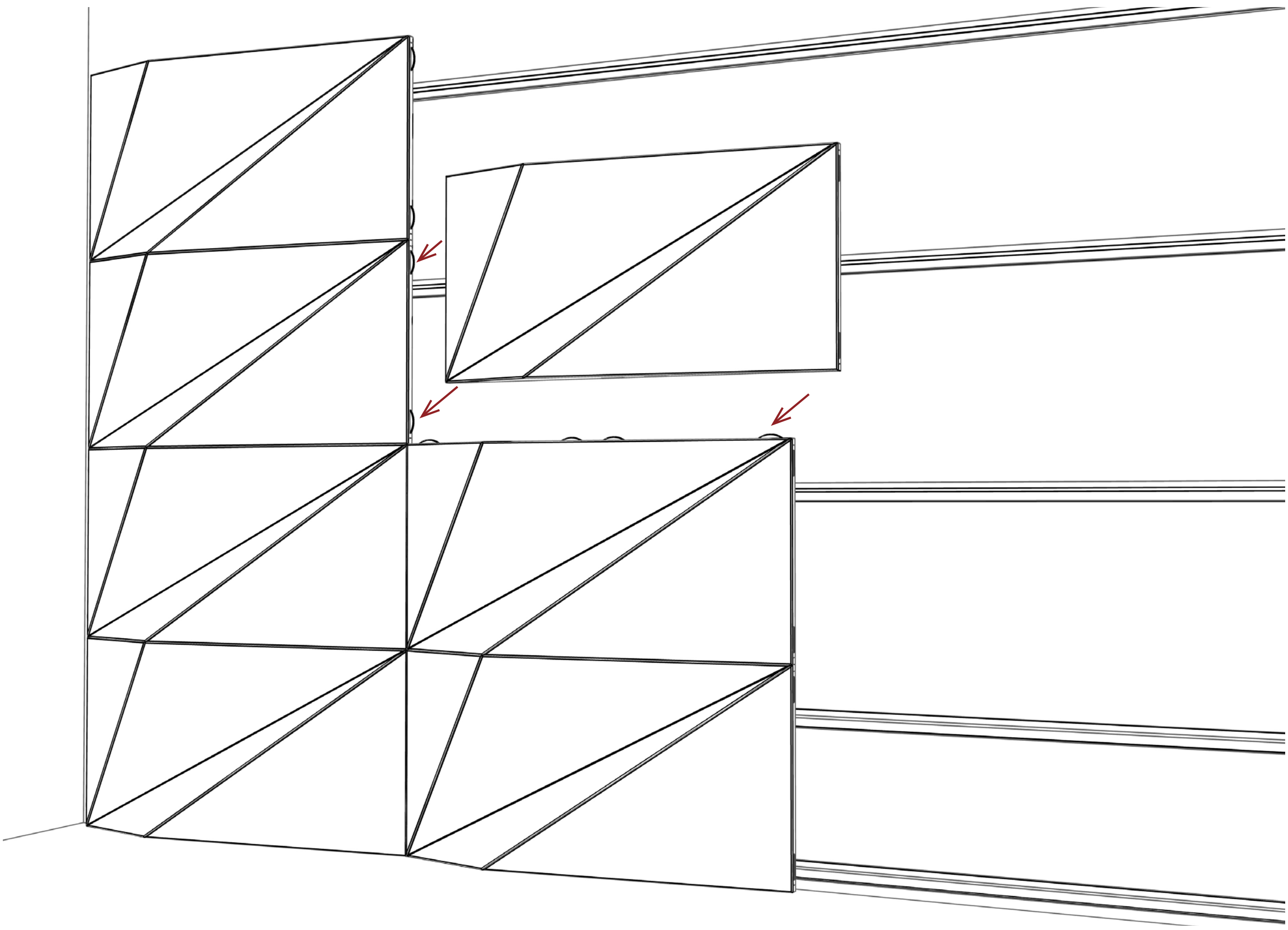
Using these pre-inserted nuts, Z-shaped profiles can be fixed according to the direction of the panel to be hung.

PANEL INSTALLATION - Wall - 60 X 120 cm Panels

The locations of the Z-shaped profiles are the same for all 60 x 120 panels so that if you change the panel with another 60 x 120 cm Mikodam panel you will not have to change the position of the U-shaped profile on the wall. You can also change the direction of the panels without changiing the position of the U-shaped profiles.



While hanging the panels, both lower and upper z profiles should be used for the panel at the bottom. For the panels above it only the z profiles on the top are used.



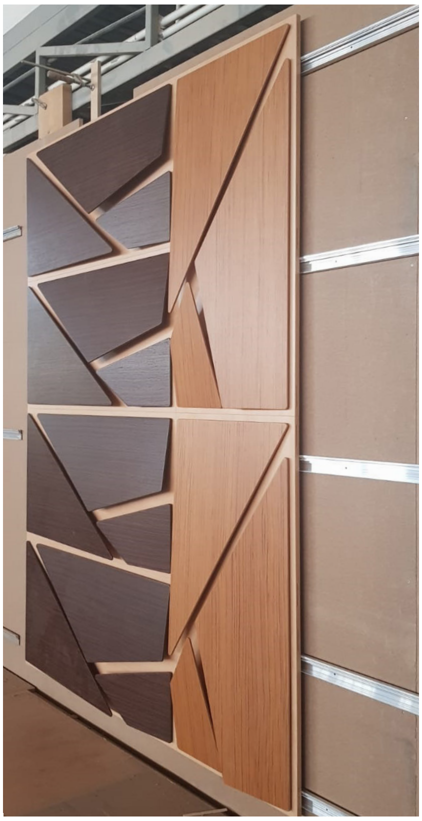
Lamello biscuits are used to join and level the panels to each other.

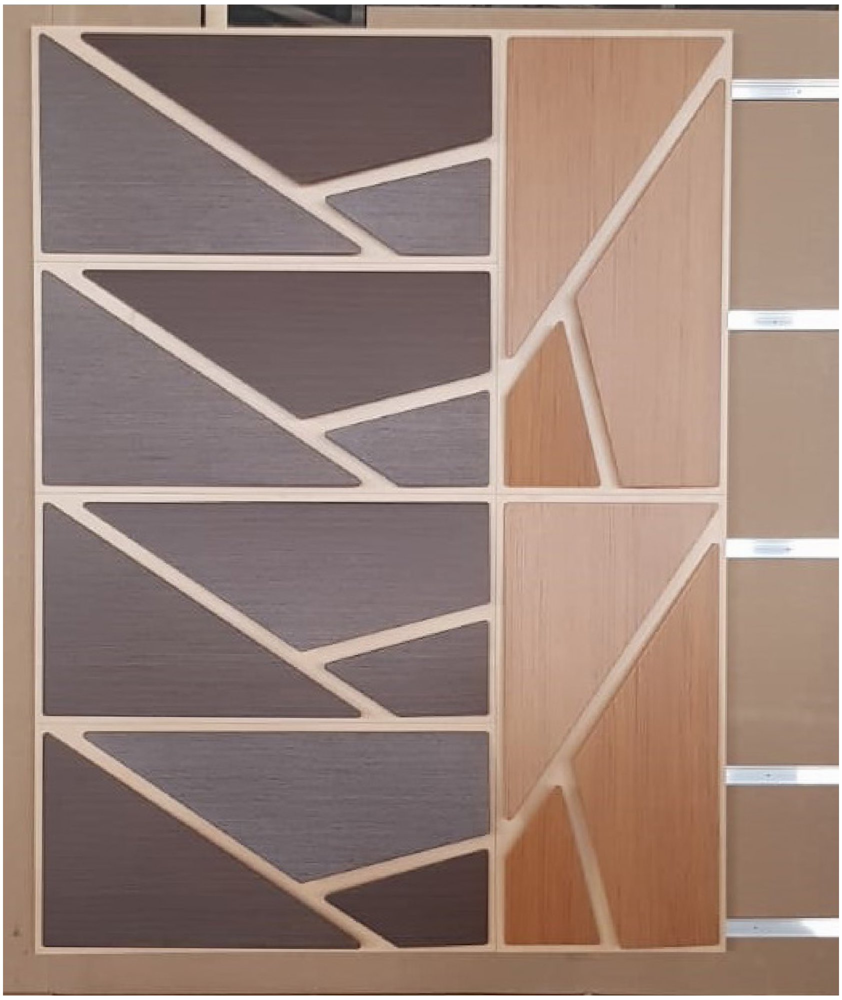
PANEL INSTALLATION - Wall



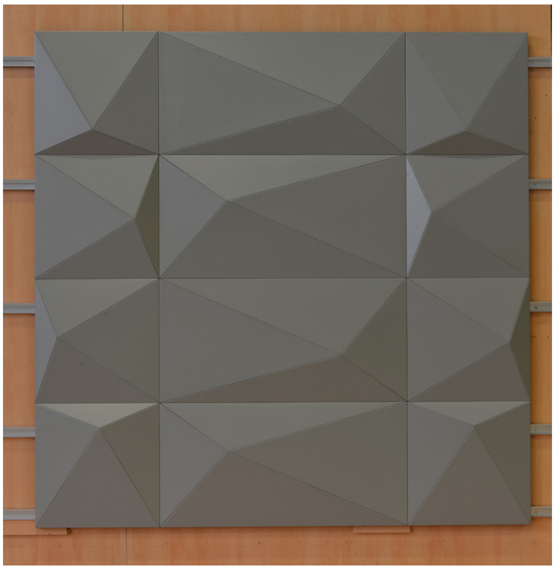

Lamello biscuits are used to join and level the panels to each other.

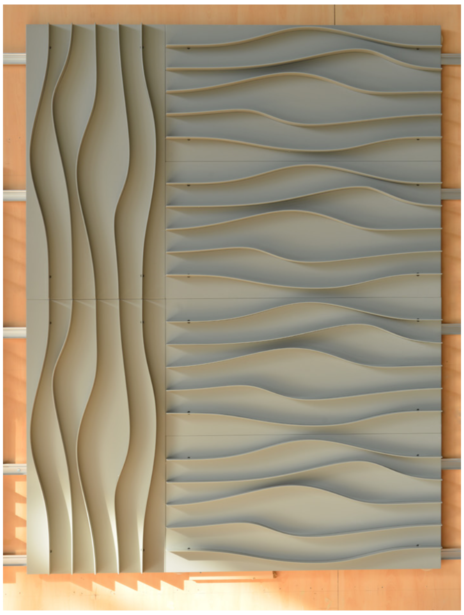
PANEL INSTALLATION - Wall - 60 X 120 cm Panels

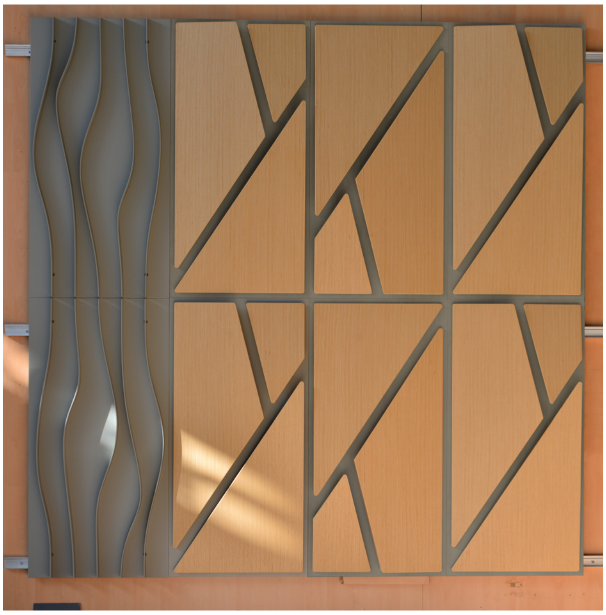




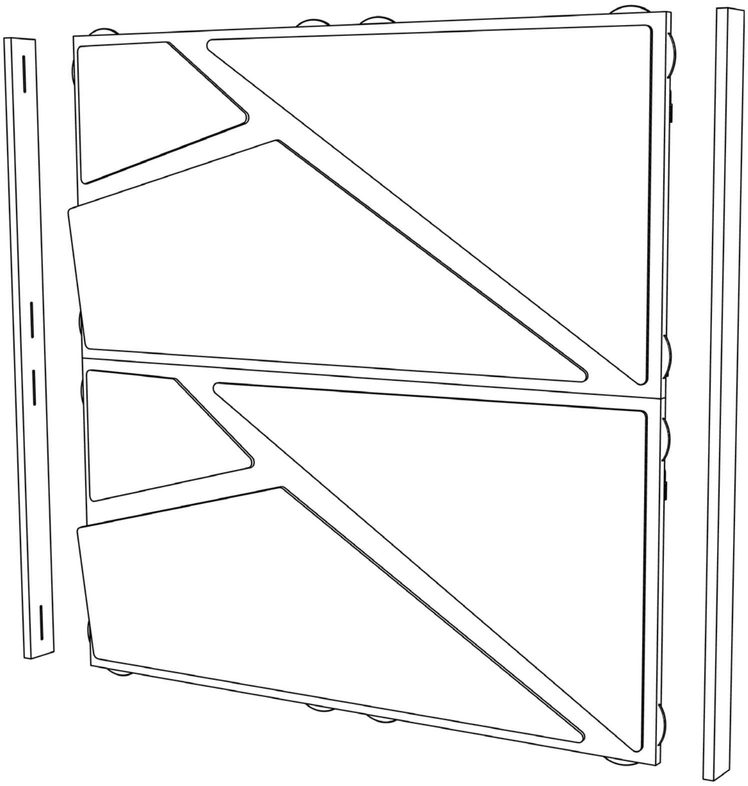
PANEL INSTALLATION - Wall - 60 X 120 cm Panels

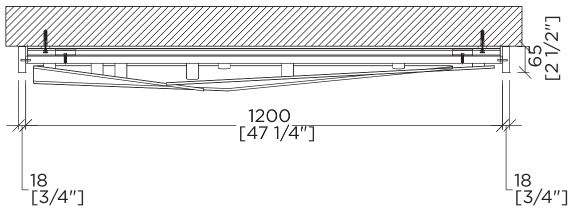


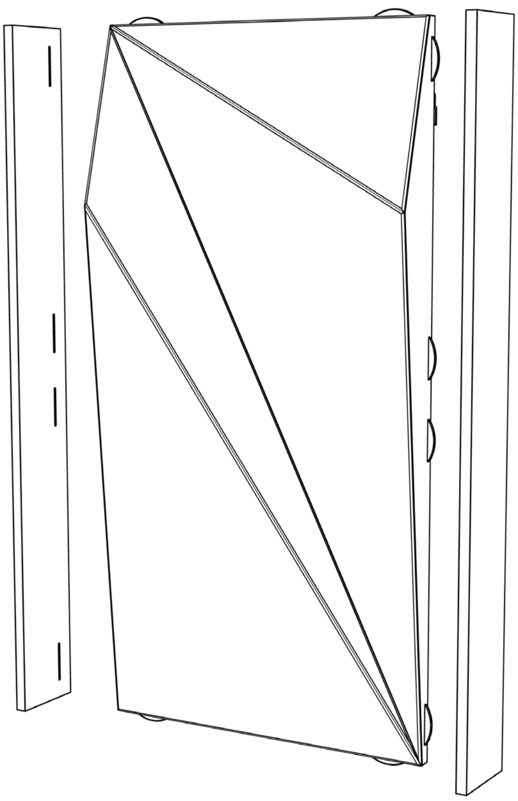


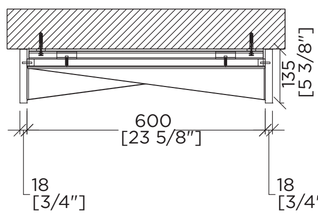


PANEL ENDING - 60 X 120 cm Panels









End panels can be easily attached to the panels using lamellos.

RAILING SYSTEM

PANEL INSTALLATION - Wall

The photos below show an installation process on the wall.

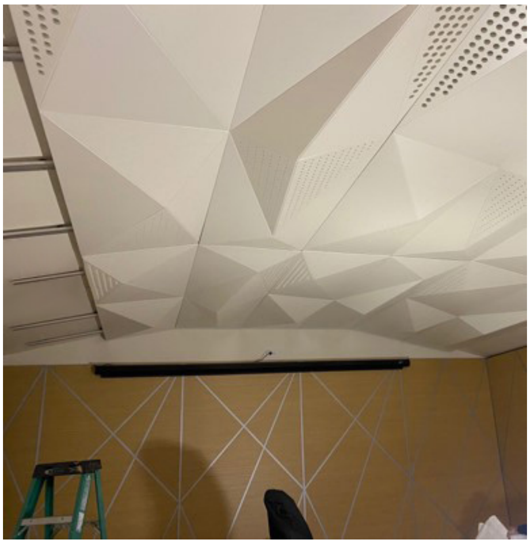


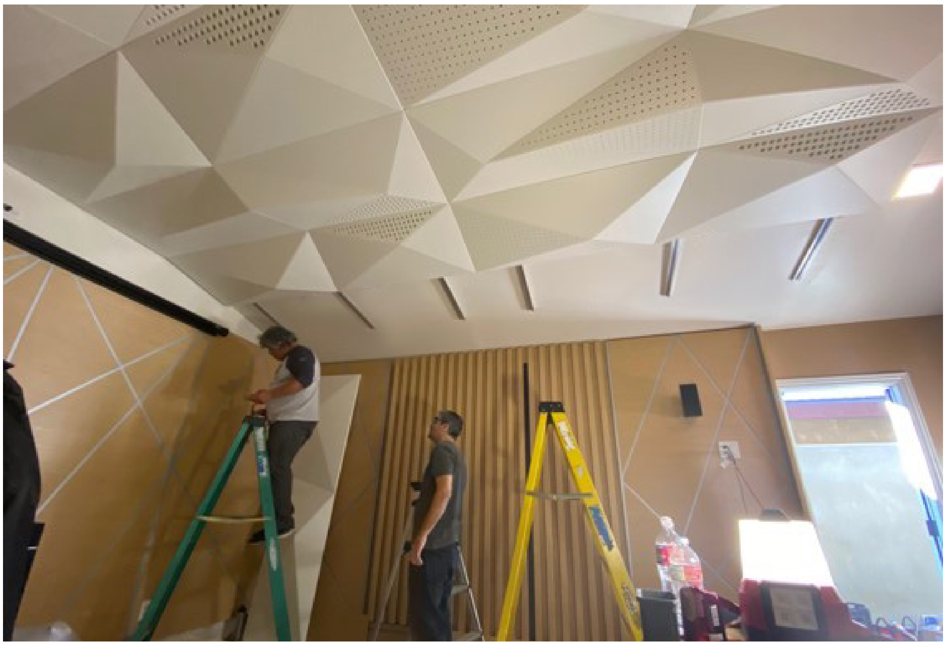





PANEL INSTALLATION - Ceiling

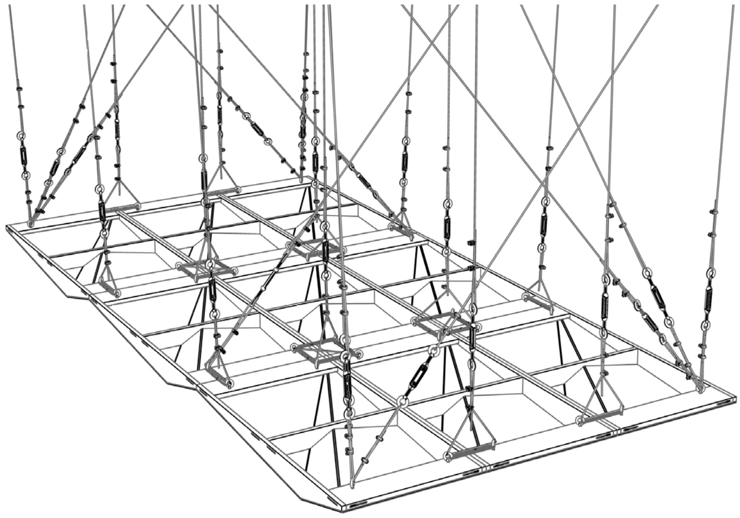
The photos below show an installation process on the ceiling.

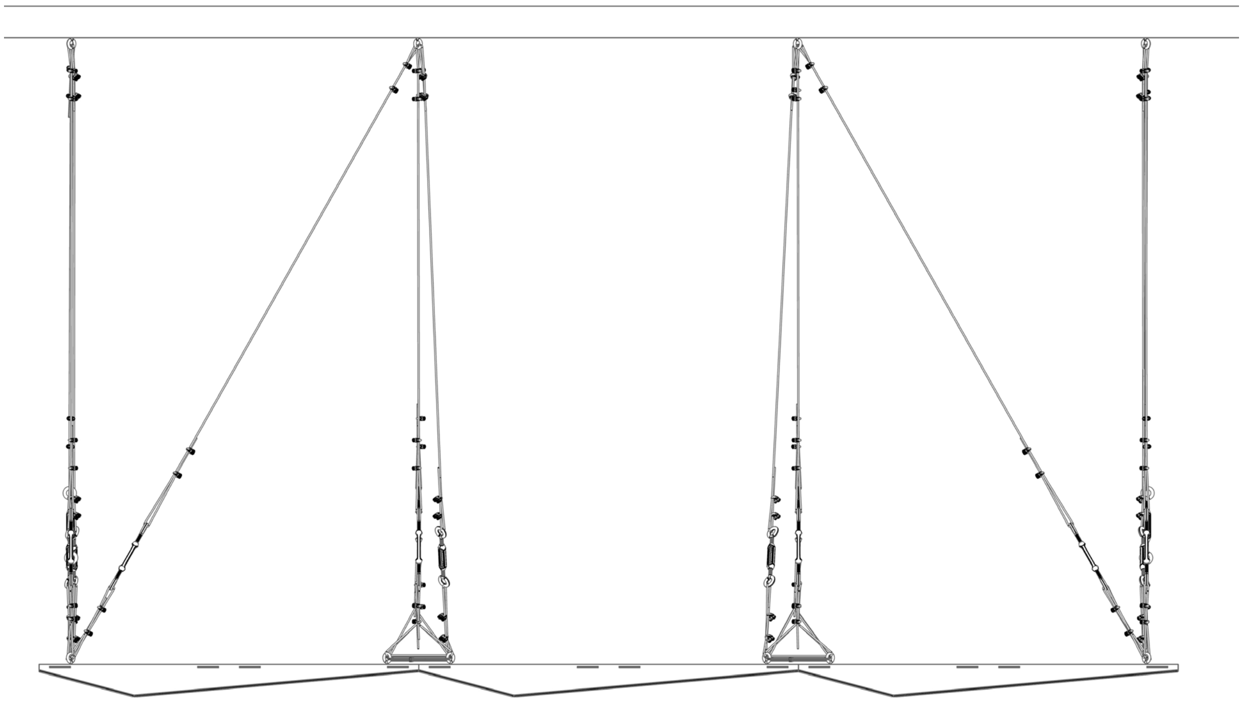


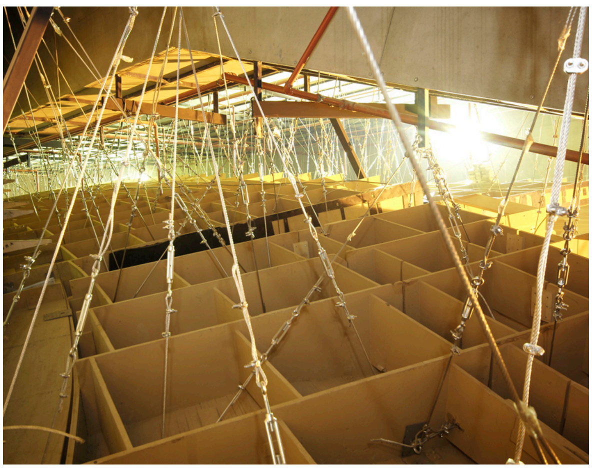


PANEL INSTALLATION - Ceiling

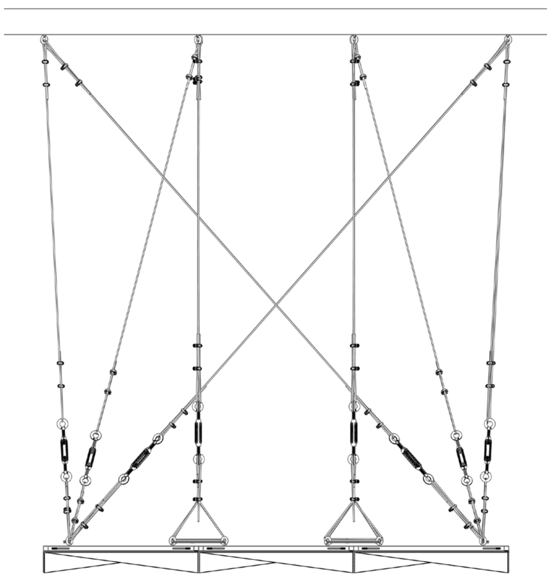
Given below is the method of installation of our panels hanging on the ceiling by using wire ropes. This method is preferred when the panels need to be hung at a distance from the ceiling instead of being directly mounted to the ceiling. (The examples in the following pages are given using Geta & Tora panels; the same system can also be applied to other Mikodam Panels.)



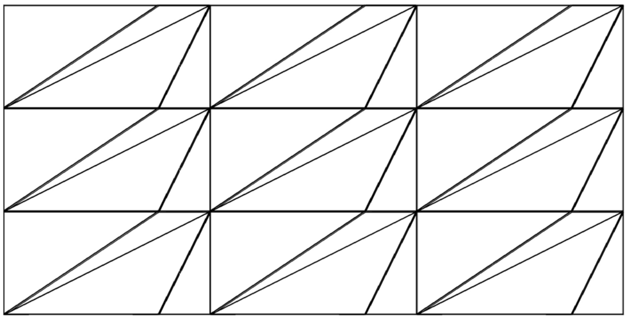


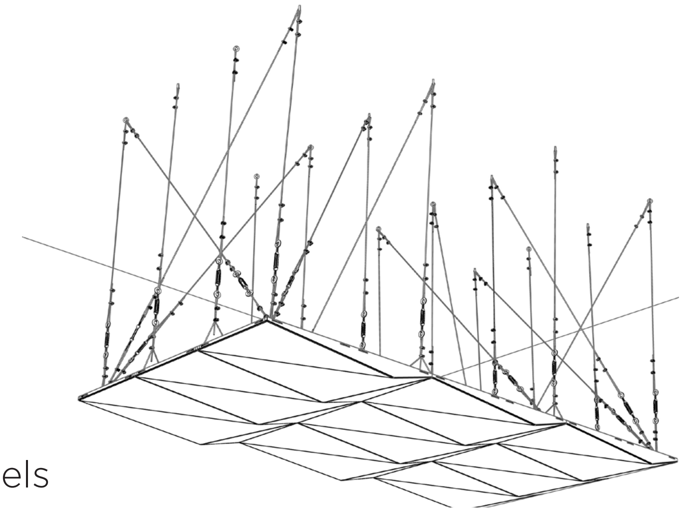


*Similar system is used Haydar Aliyev Auditorium project

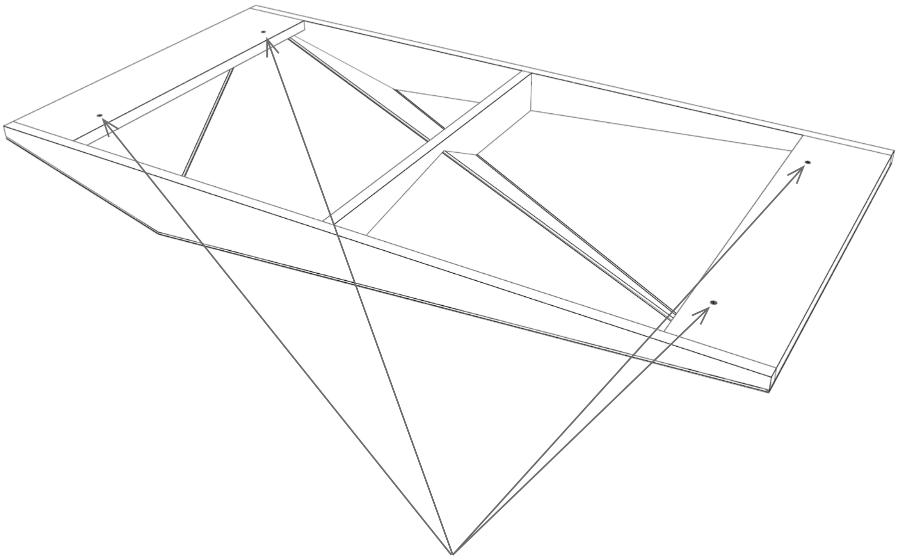


PANEL INSTALLATION - Ceiling



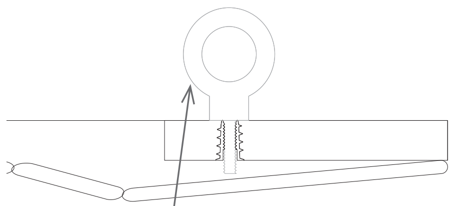


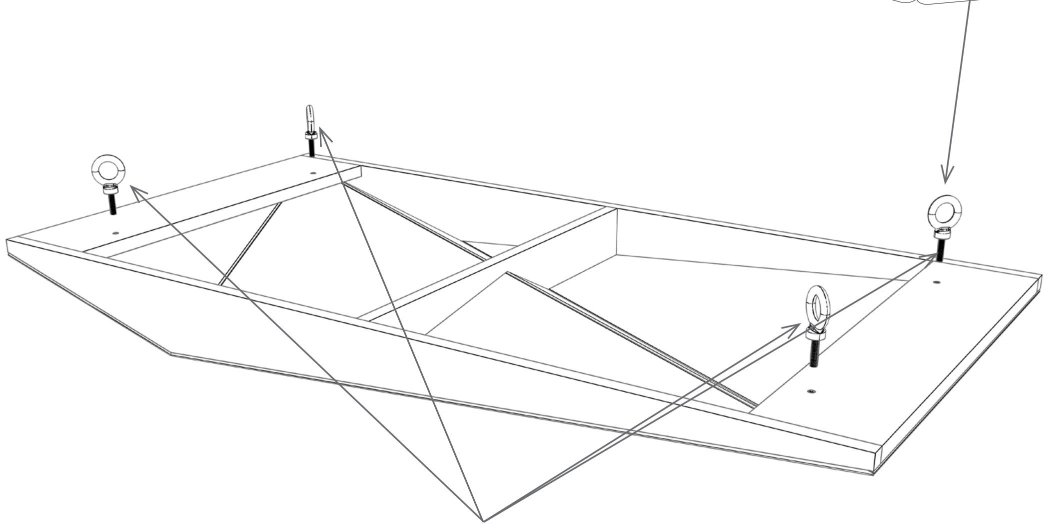
Tora panels



60x120 cm panels come with pre-inserted nuts at the corners on the back of the panel, ready to fix the eyebolts.

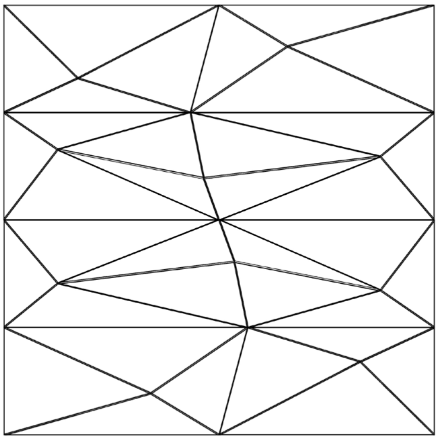
pre-inserted nuts

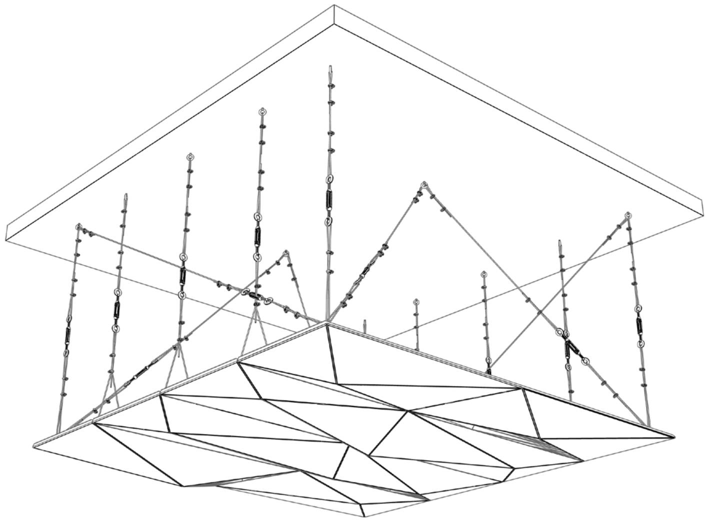




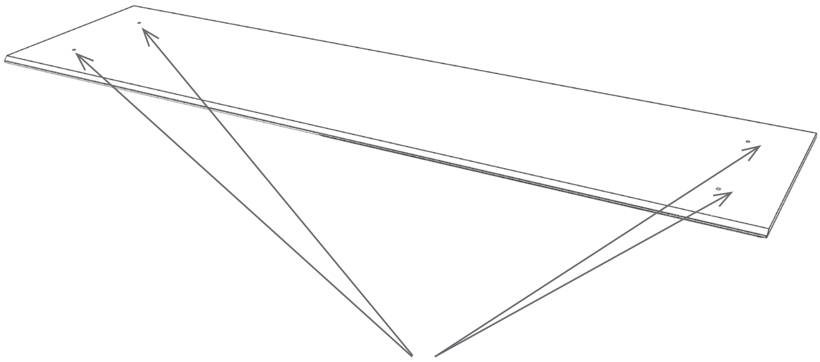
eyebolts

PANEL INSTALLATION - Ceiling



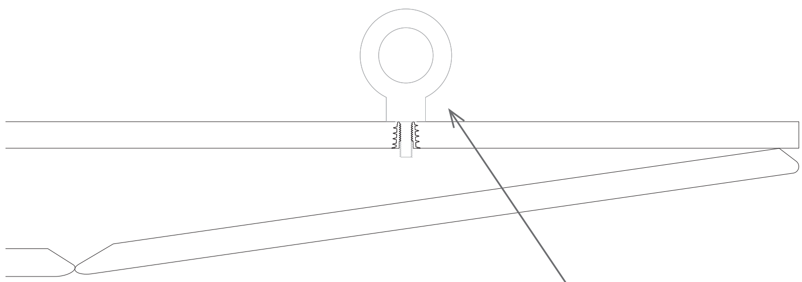


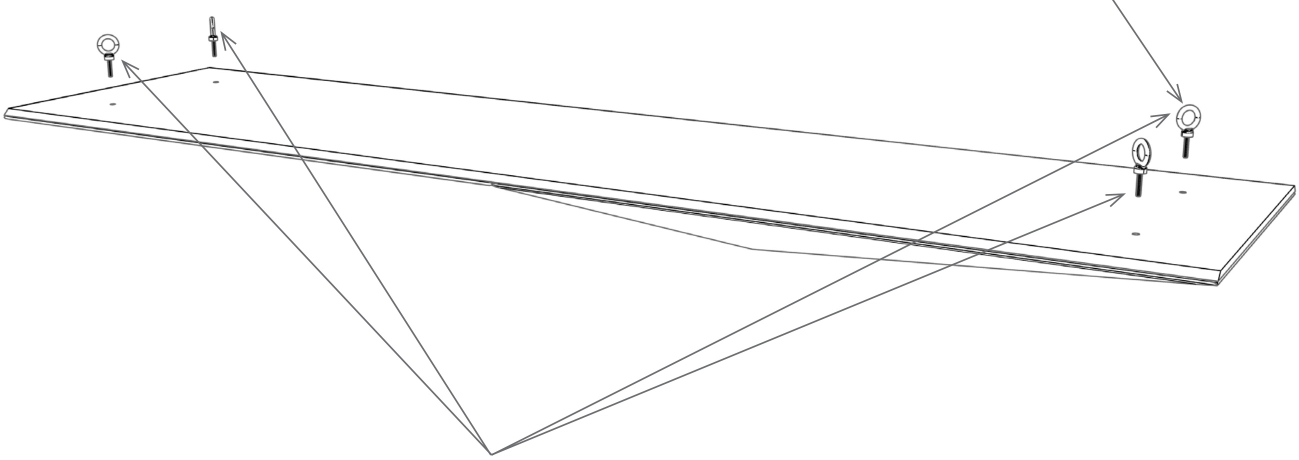
Geta panels



For panels which do not have pre-inserted nuts, in order to fix the eyebolts, pre-inserted nuts should be inserted to the corners on the back of the panel first.

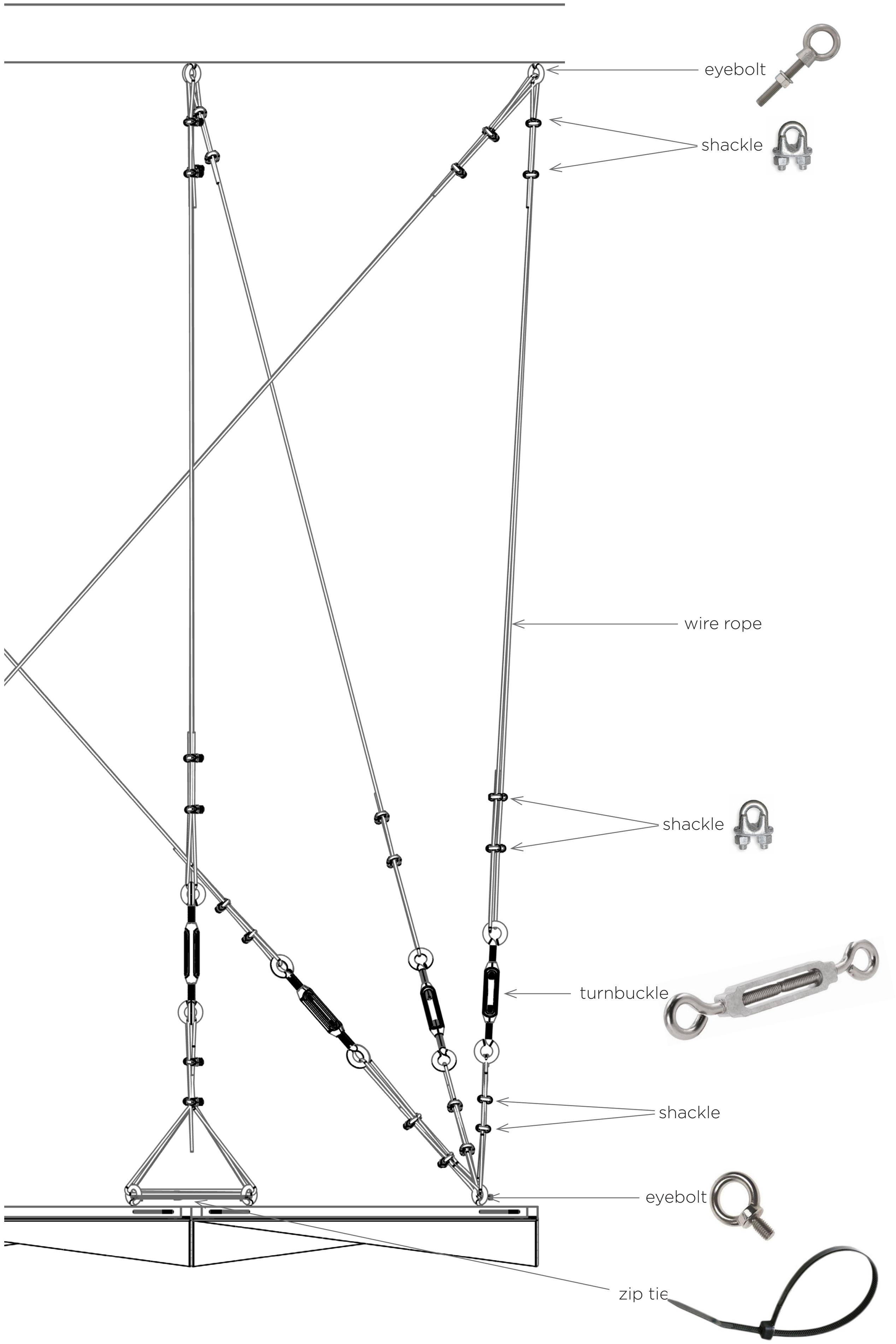
pre-inserted nuts



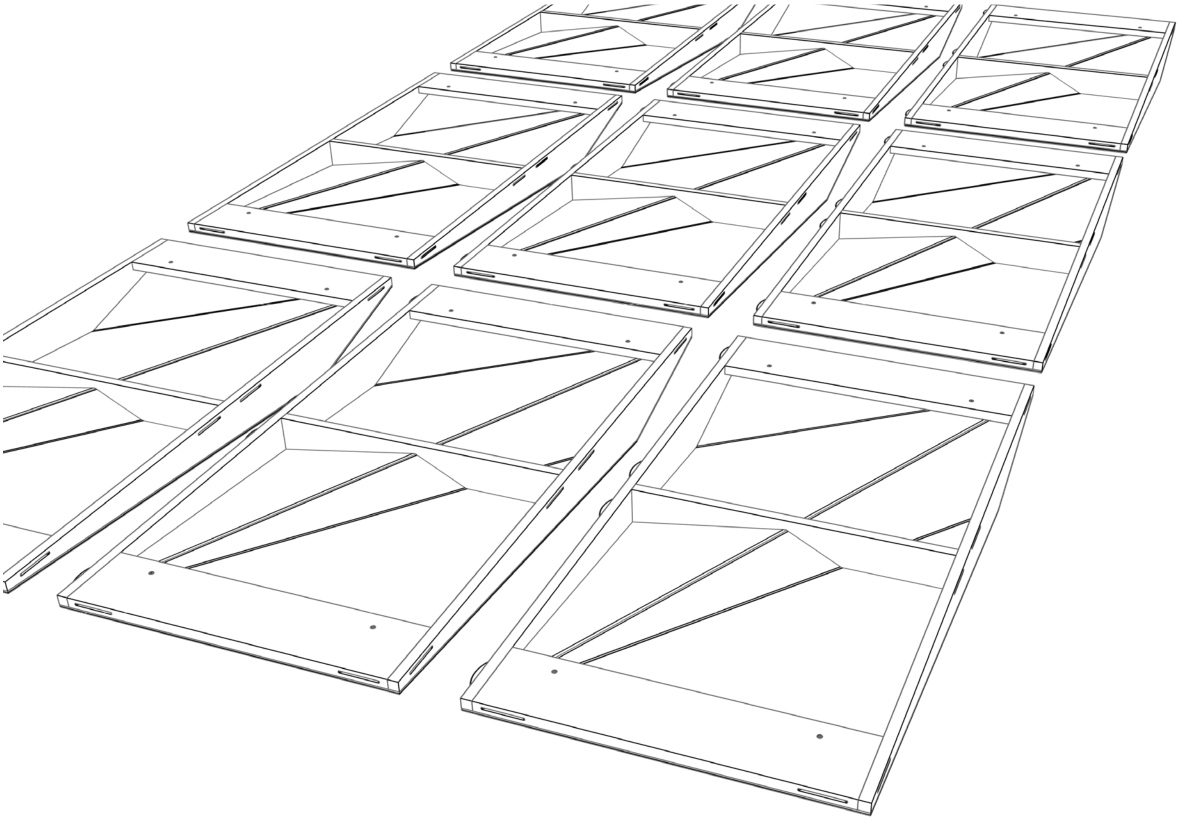


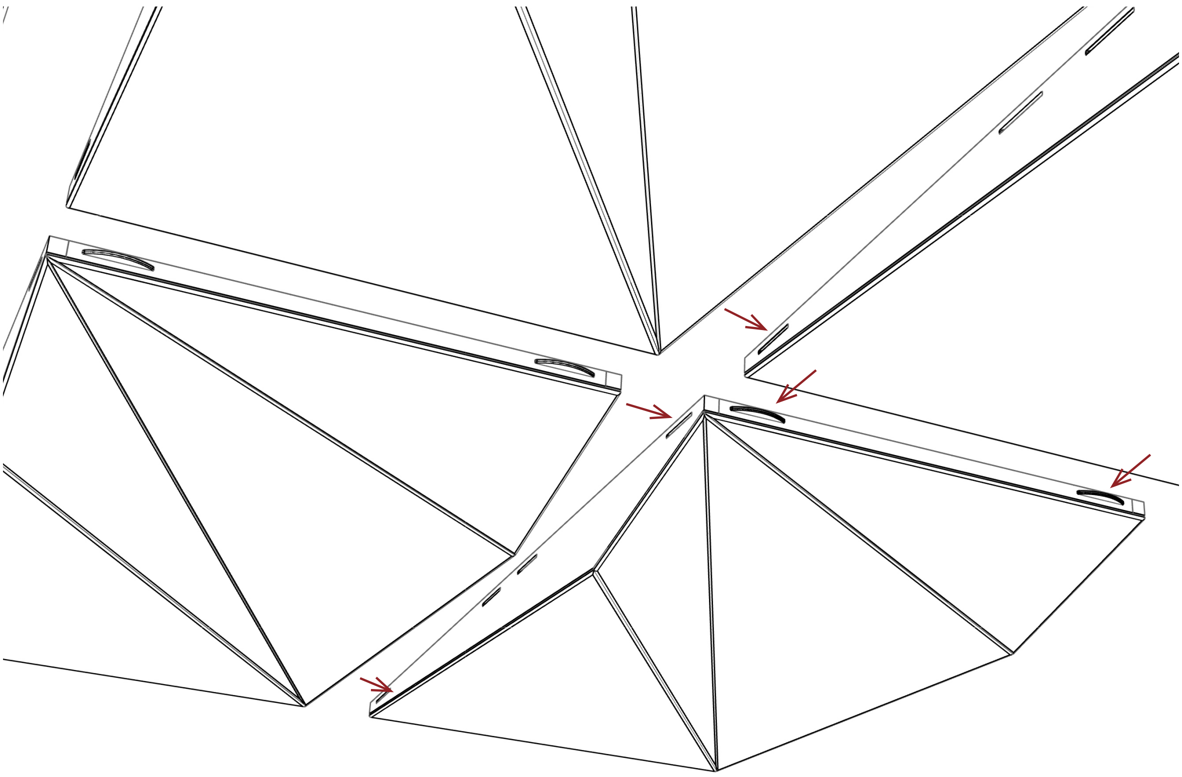
eyebolts

PANEL INSTALLATION - Ceiling



PANEL INSTALLATION - Ceiling

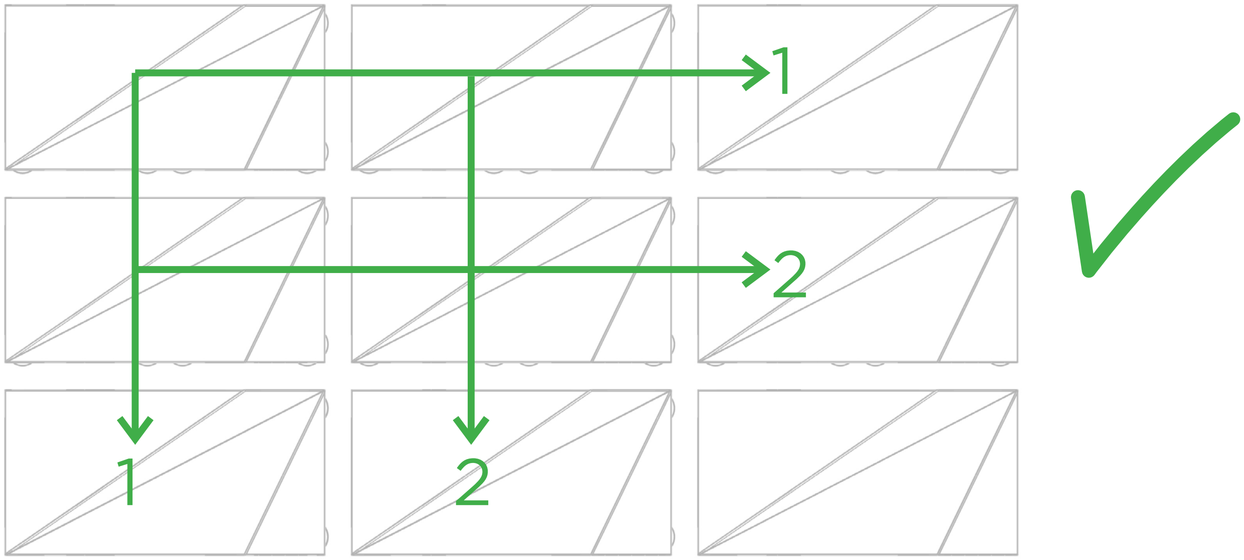


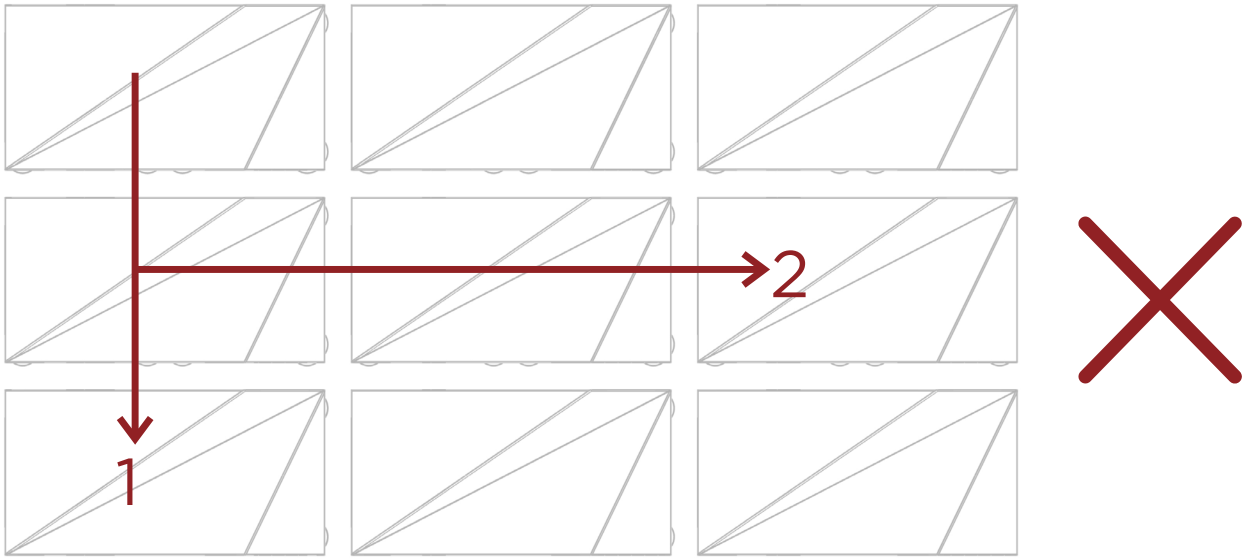


We use lamello biscuits to join and level the panels to each other.

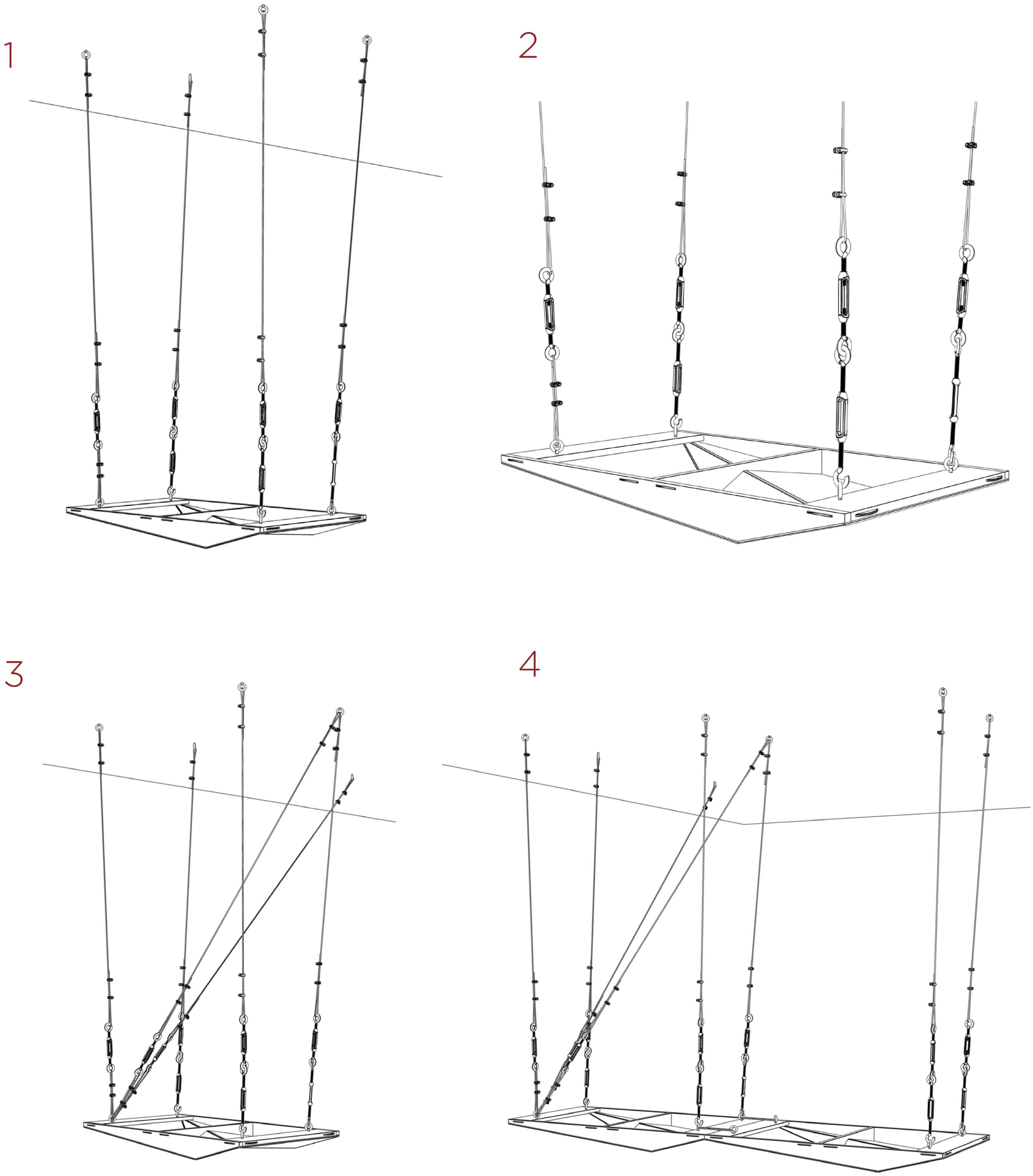
PANEL INSTALLATION ORDER - Ceiling

The panels must be installed on ceilings following a certain order. The installation should start at the corner and follow the consecutive sequence in both directions as shown below, making sure the shorter edges join each other and the longer edges join each other as well.





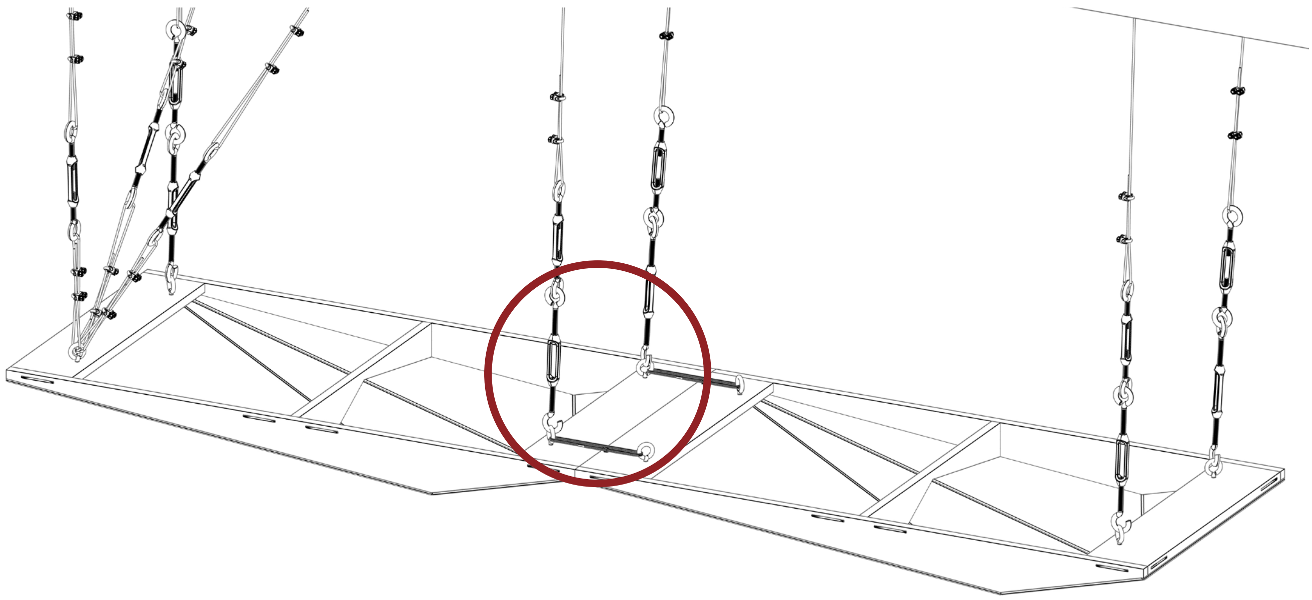
PANEL INSTALLATION STAGES- Ceiling



After hanging the first panel, the corner of the panel should be stabilized by hanging from three points on the ceiling. The other corners should be fixed by using temporary turnbuckles until the other panels are hung.

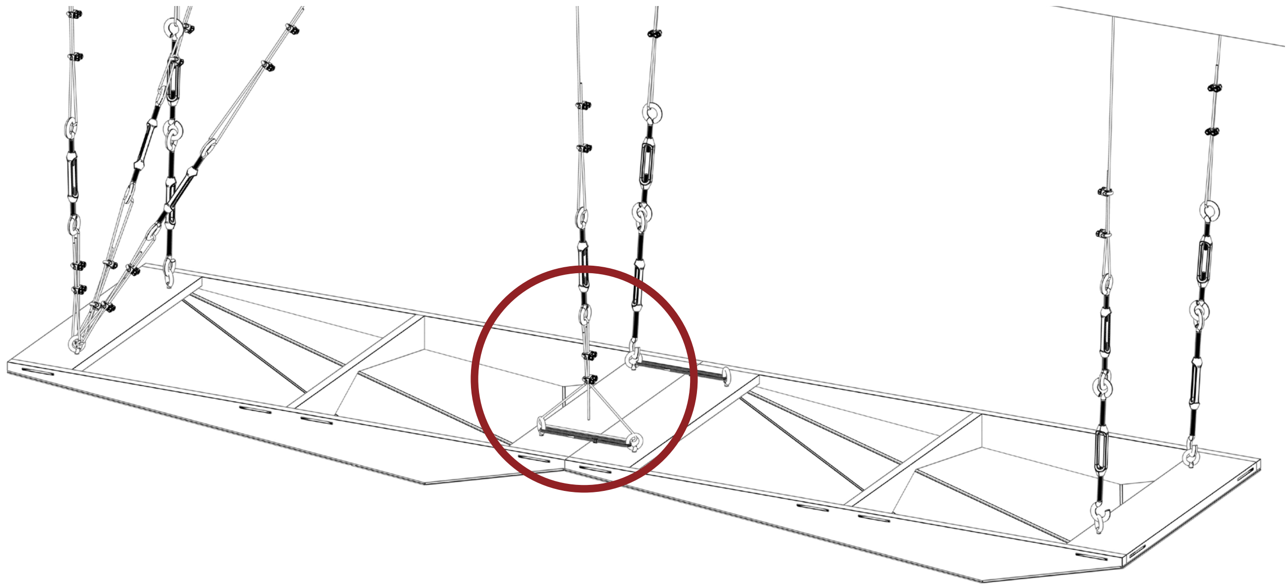
PANEL INSTALLATION STAGES- Ceiling

5



The second panel should be attached to the first panel on its shorter edge by using lamellos and zip ties. Free corners should be suspended from the ceiling by using temporary turnbuckles.

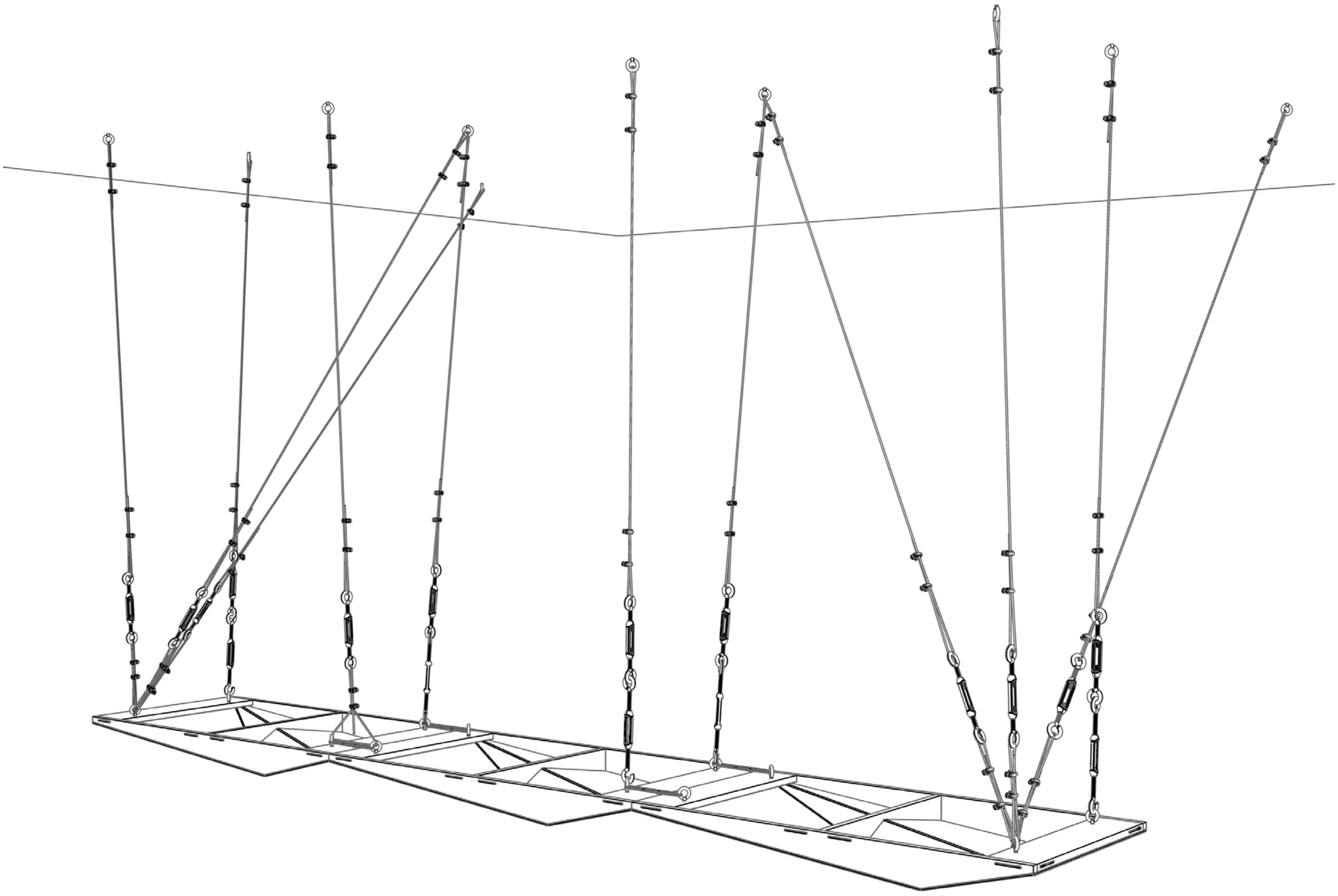
6



After the second panel is fixed in place temporarily, a wire rope should be inserted through the eyebolts at the outer corner of both panels. To tie the inner corners, the second row should be installed first.

PANEL INSTALLATION STAGES- Ceiling

7



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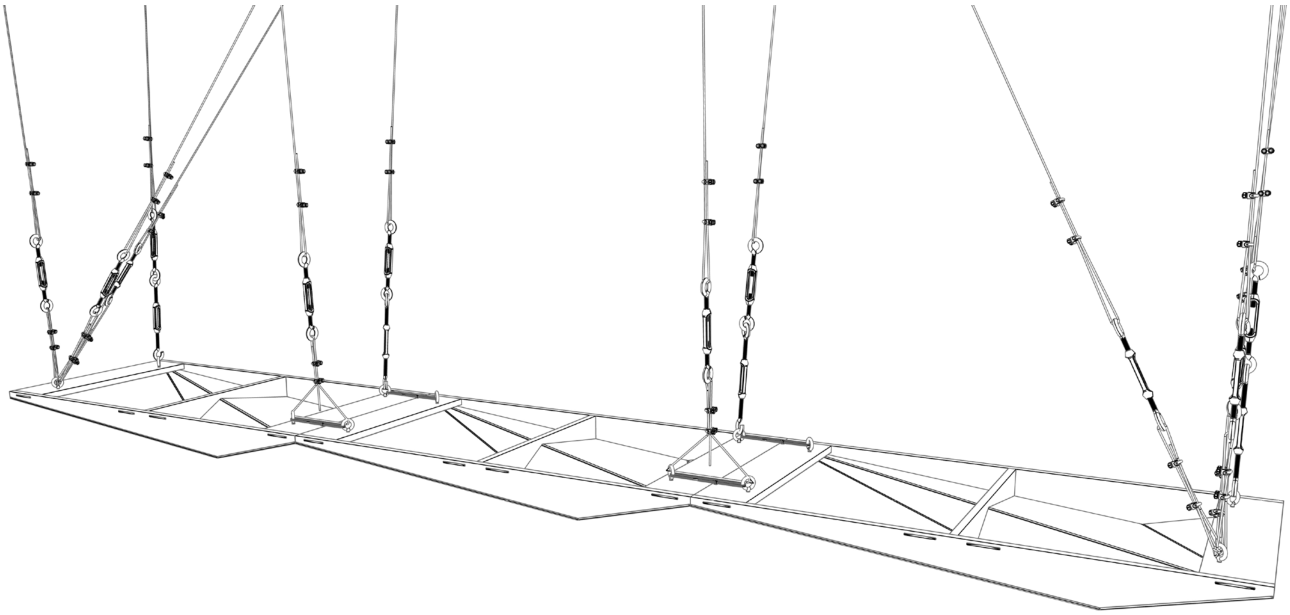


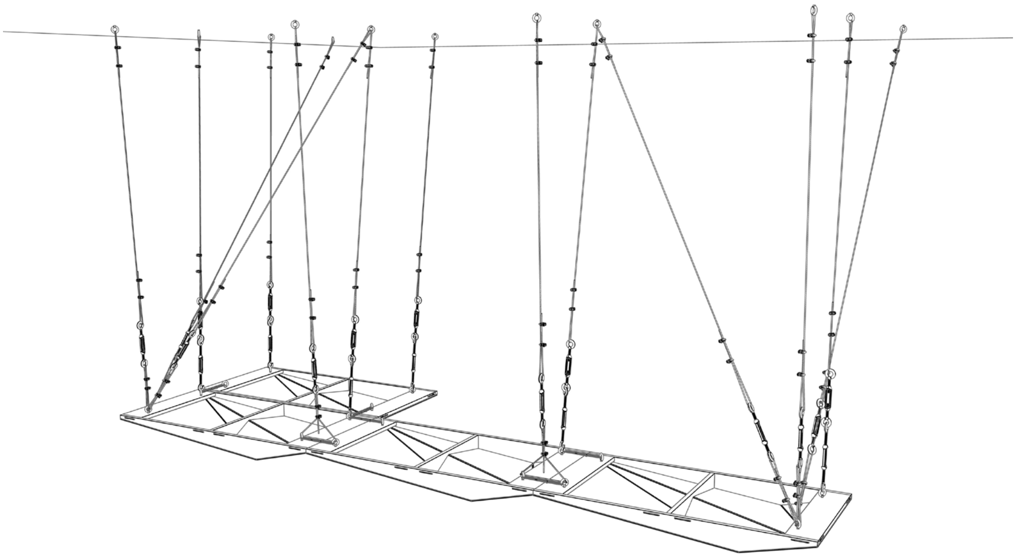
The same steps should be applied until the installation of the last panel in the row. Then the height of the panels at both ends of the first row must be adjusted. After that the panels in the middle should be adjusted too, so that the height is the same for all the panels in the row.

The two corners in the starting row must be connected from 3 points on the ceiling so that the direction of the panels are fixed.

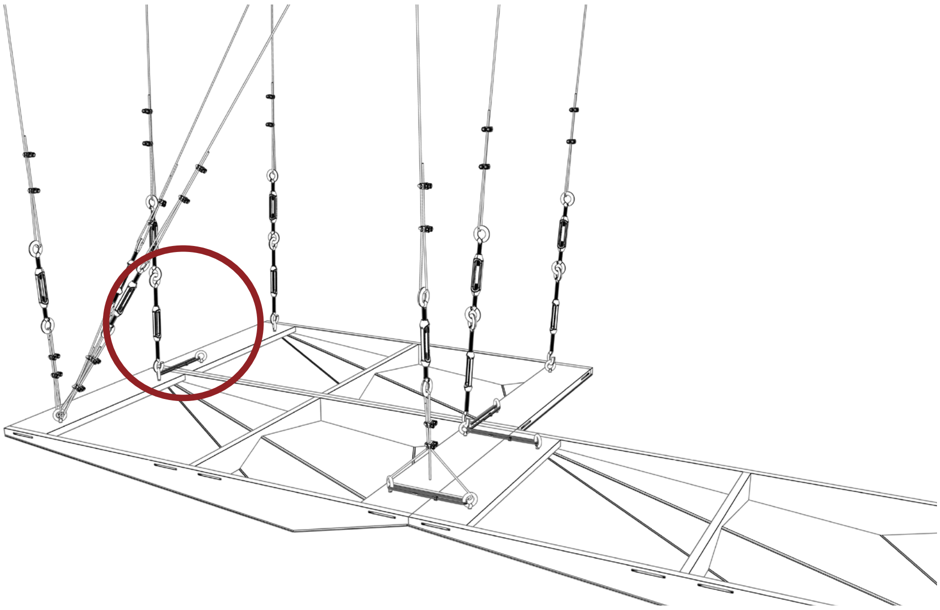
In order to provide stabilization, the panels should be hung not only from perpendicular points but also from cross points, on corners and every 5 to 6 panels in a row.

PANEL INSTALLATION STAGES- Ceiling

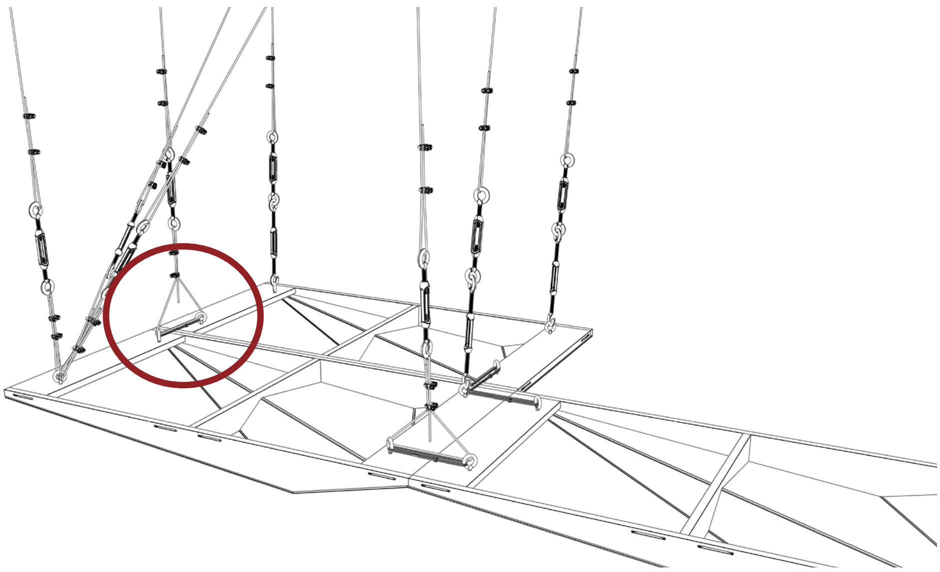
9



10



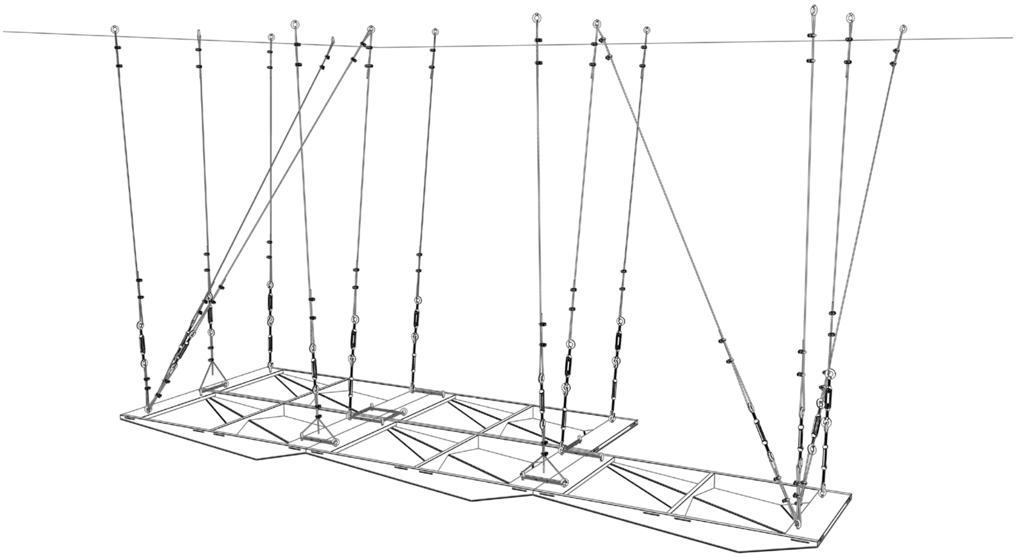
11



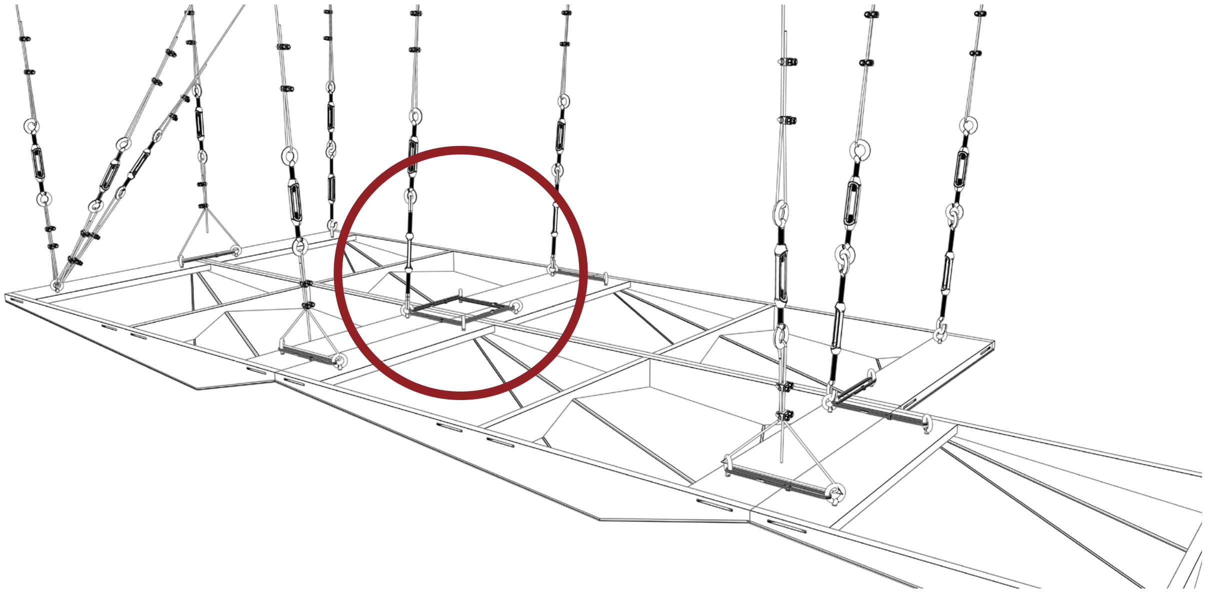
Then the first panel of the next row is installed, again first by using zip ties and hanging free corners from the ceiling by using temporary turnbuckles. Then a wire rope should be inserted through the eyebolts at the outer corners of the panels.

PANEL INSTALLATION STAGES- Ceiling

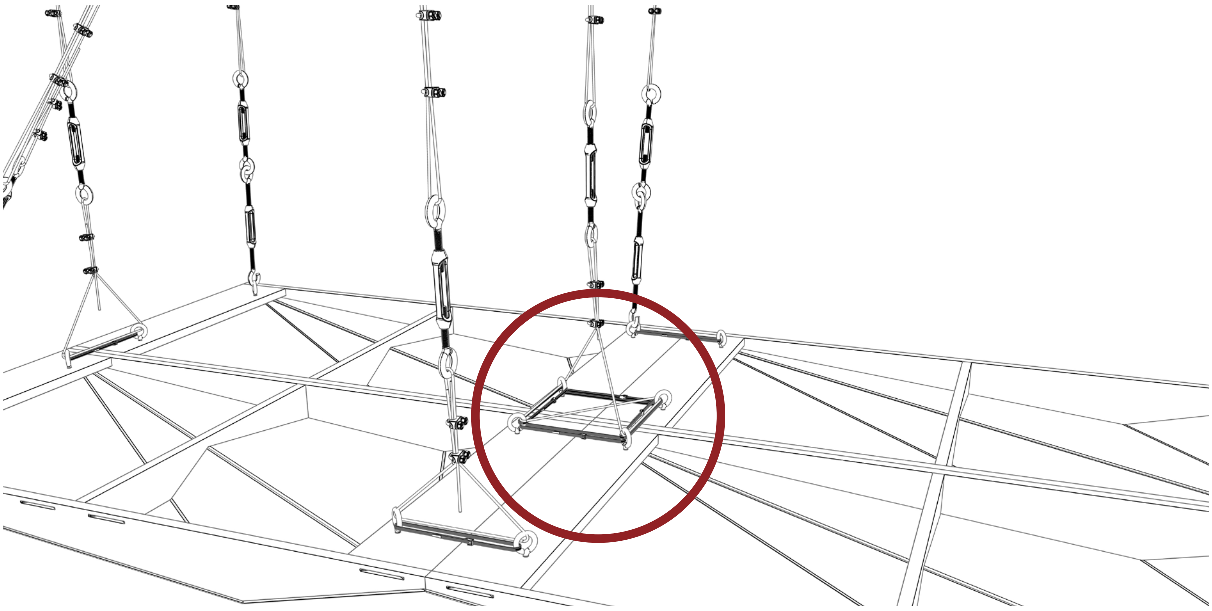
12



13



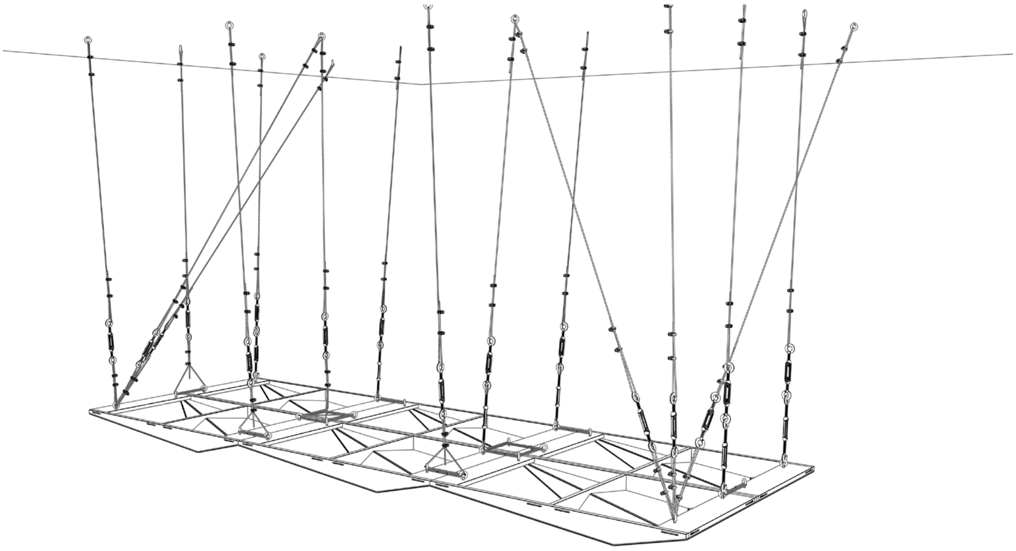
14



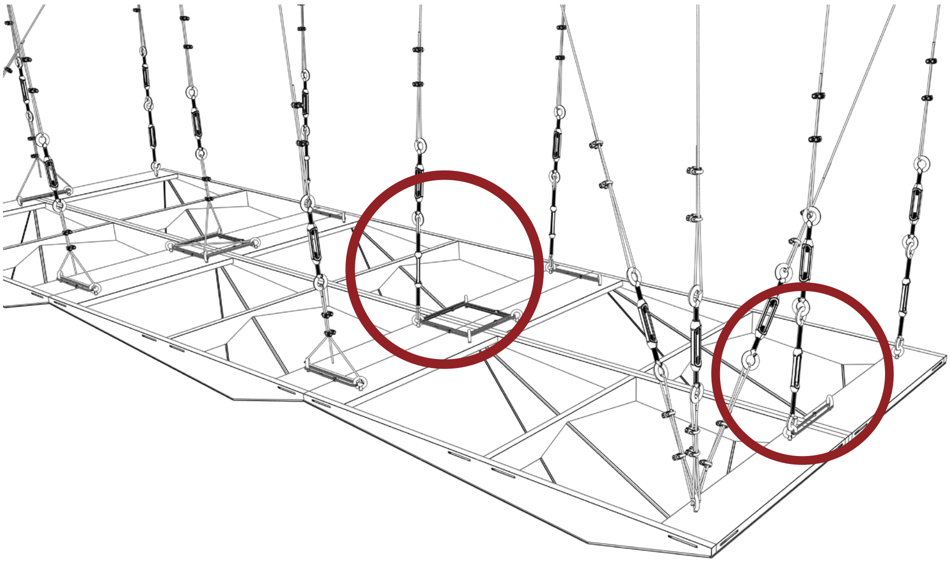
To pull the panels towards each other, the wire ropes must be inserted through the eyebolts at the corners of all adjacent panels.

PANEL INSTALLATION STAGES- Ceiling

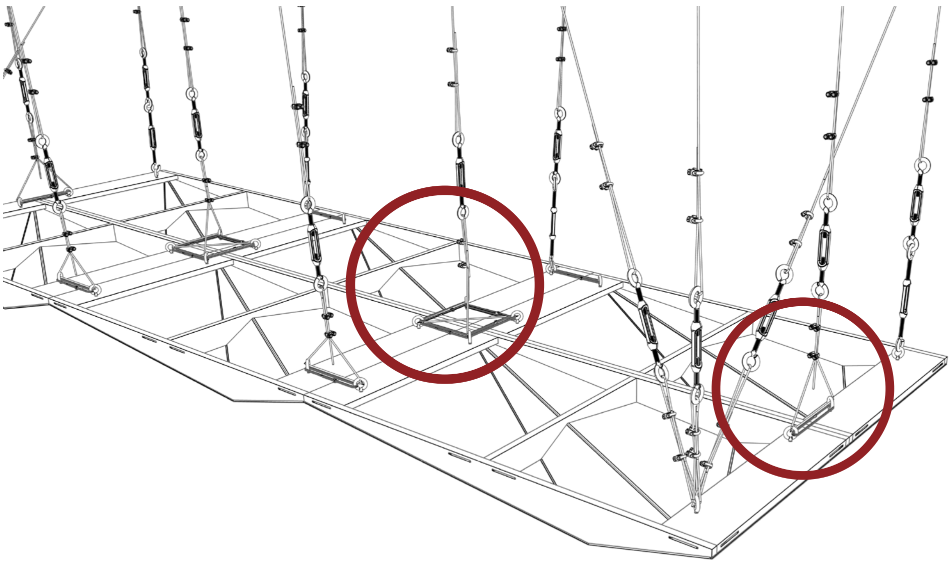
15



16

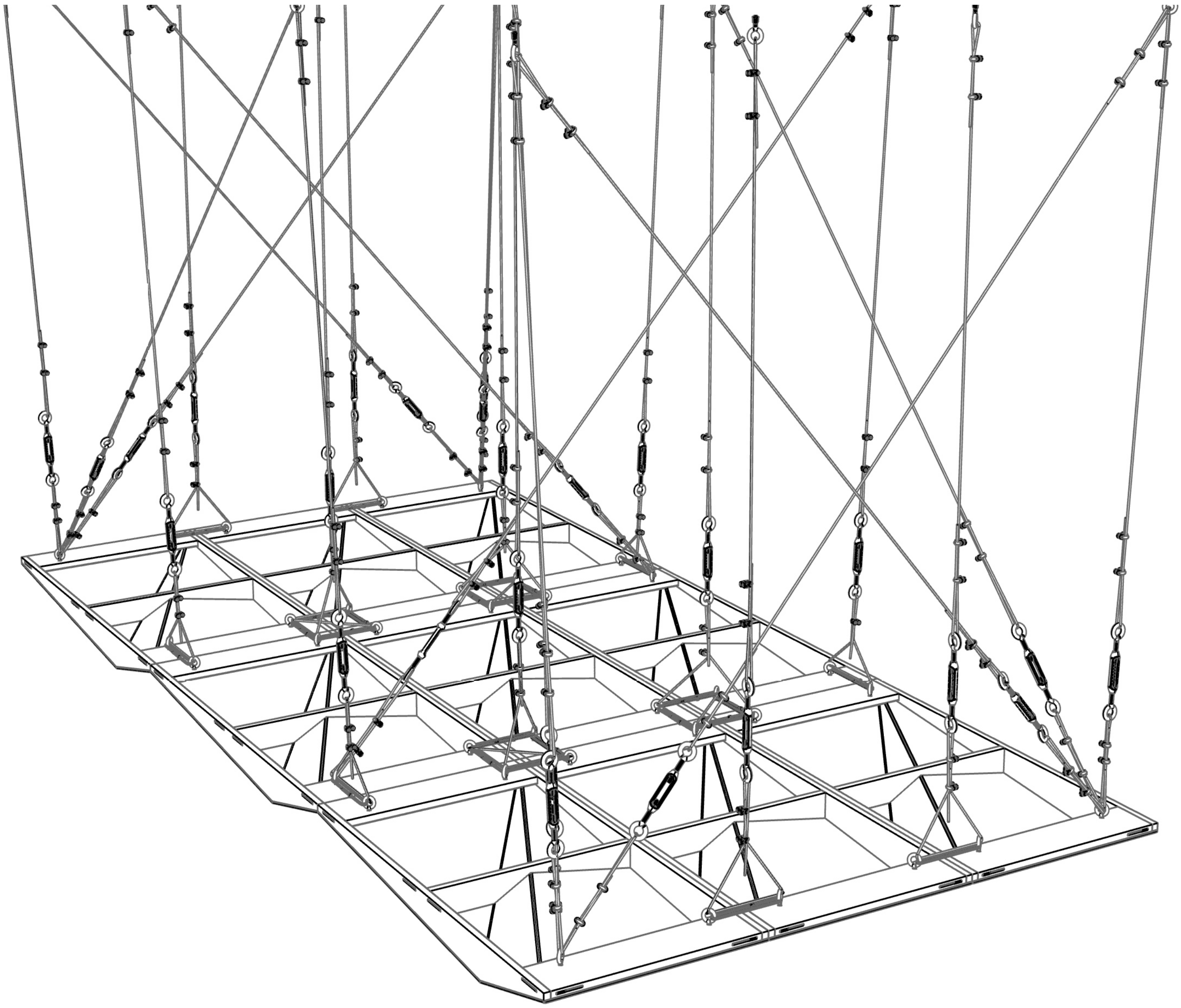


17



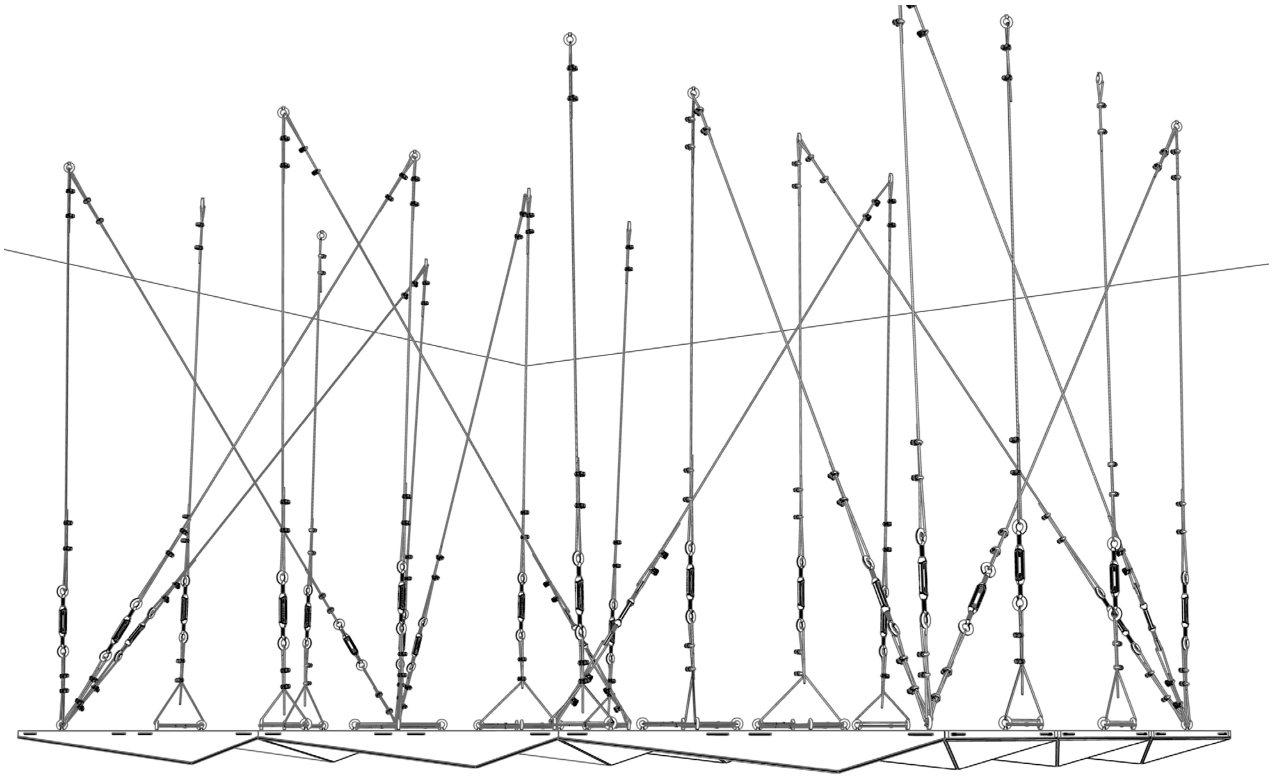
PANEL INSTALLATION STAGES- Ceiling

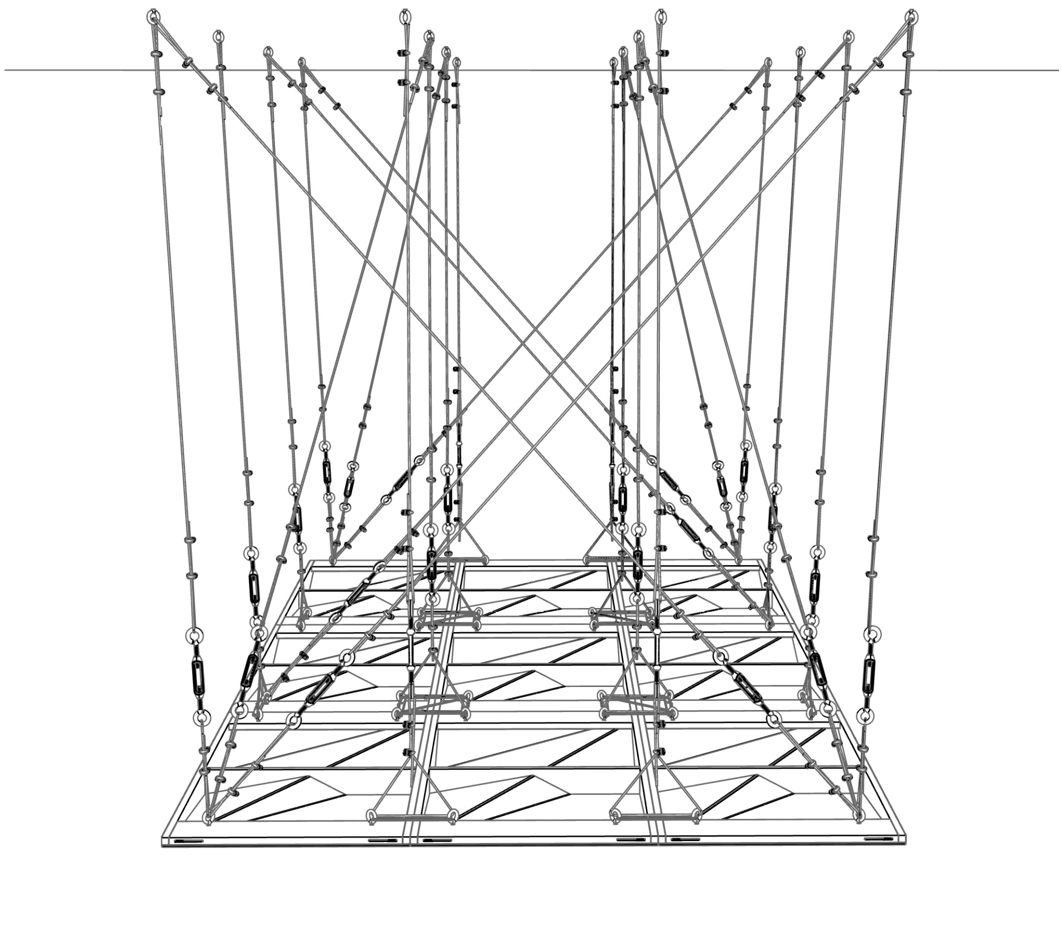
18



The panels should be hung not only from perpendicular points but also from cross points. In order to provide stabilization, it is necessary to hang them from 3 points on corners and every 5 to 6 panels in a row.

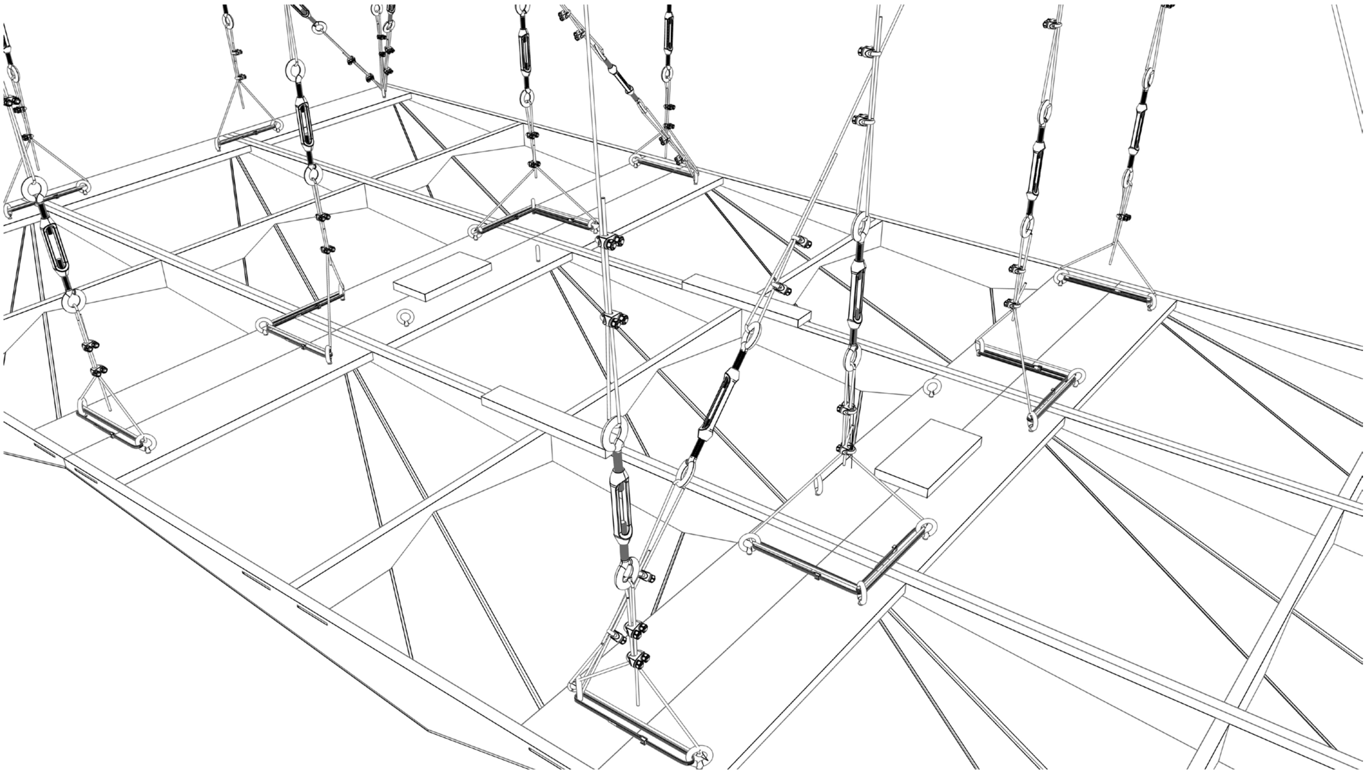
PANEL INSTALLATION - Ceiling

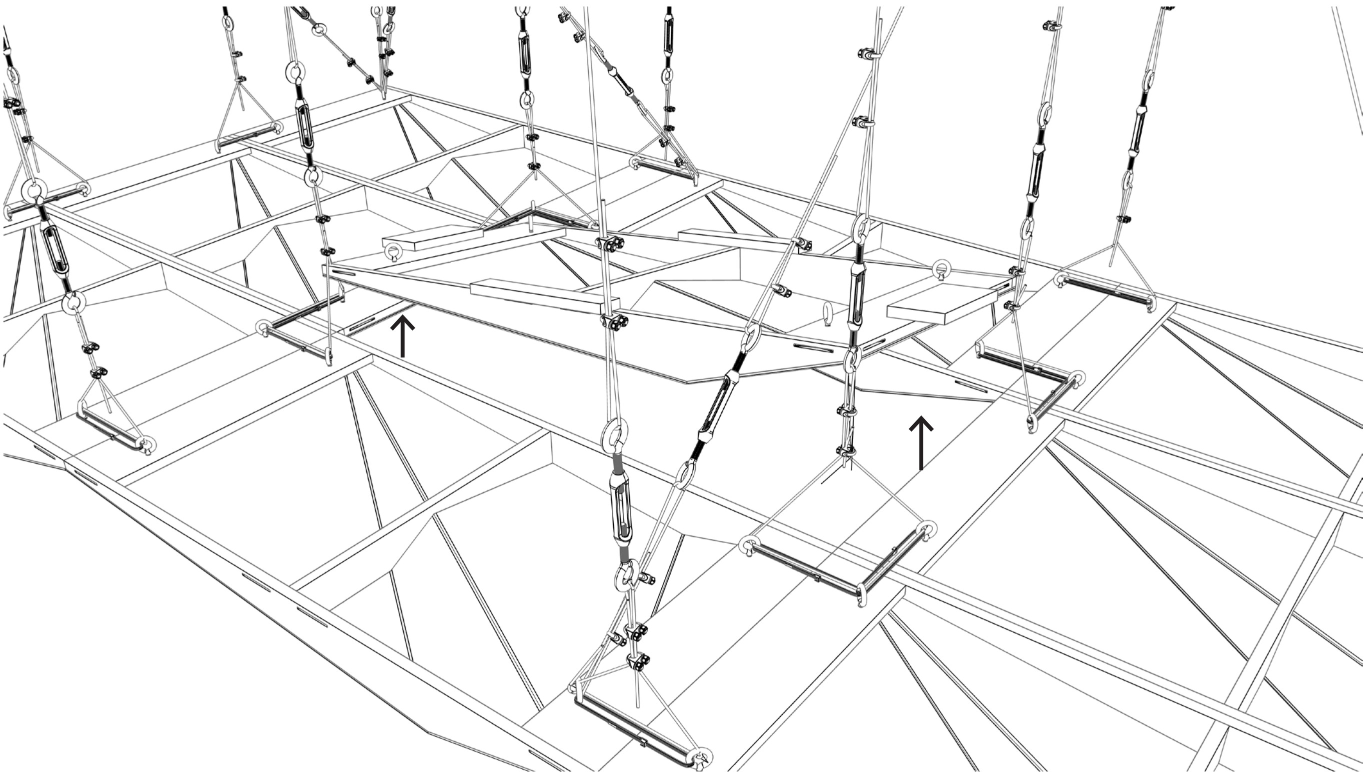




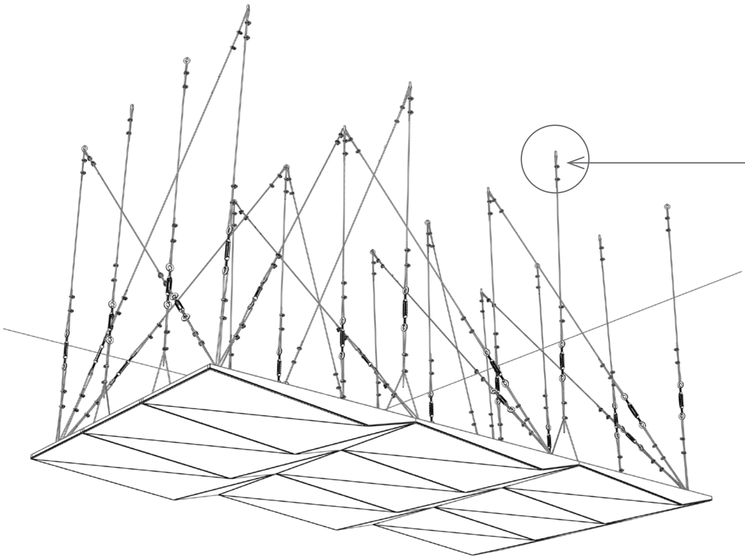
PANEL INSTALLATION - Ceiling Flaps

If there is a need to reach behind the panels, some of the panels may be movable. In this situation, for movable panels, wire rope or lamellos should not be used. Moveable panels should be placed with the help of wooden wedges which can be removed when desired thus allowing to access behind the panels.

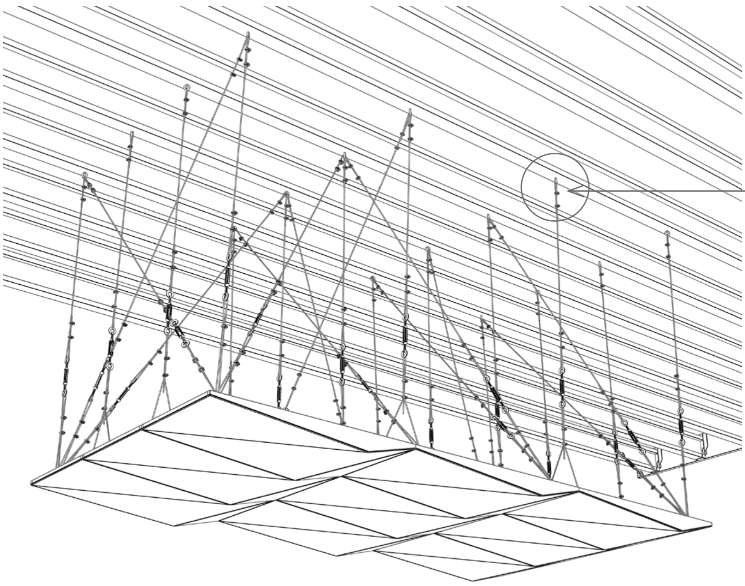




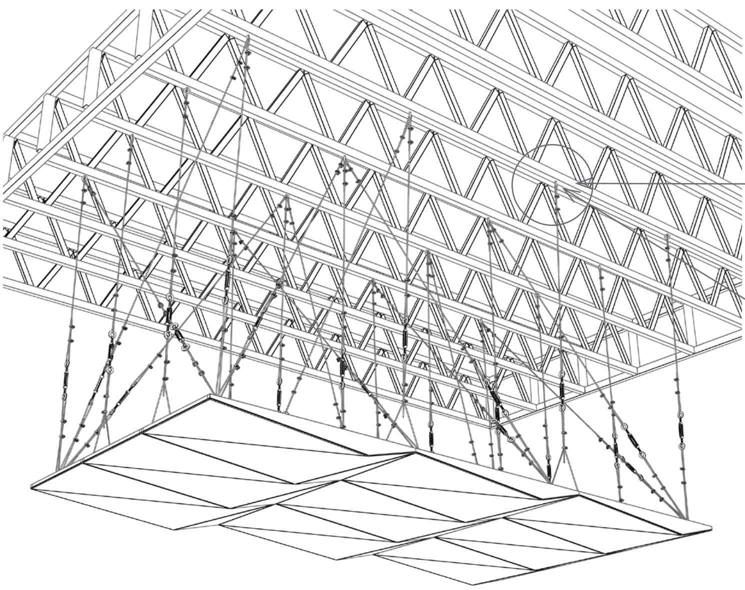
PANEL INSTALLATION - Ceiling



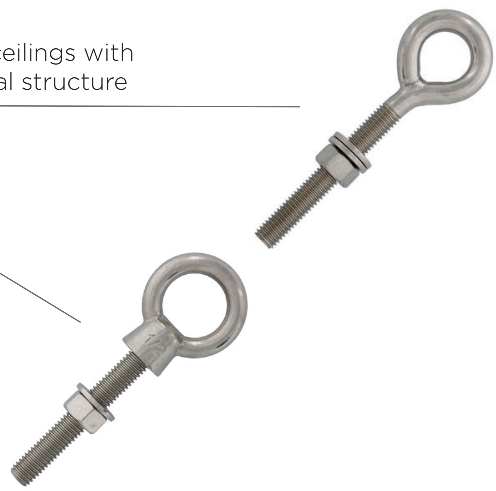
for concrete ceilings



for ceilings with
wooden structure

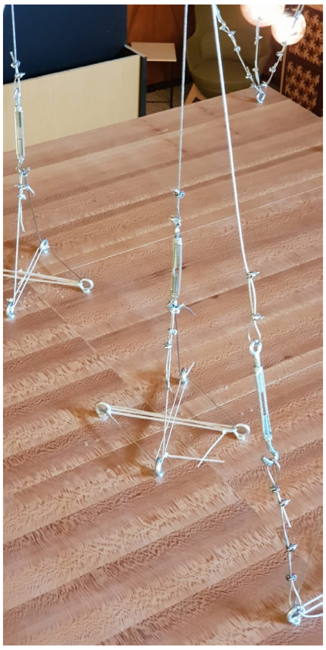


for ceilings with
metal structure



PANEL INSTALLATION - Ceiling

PANEL INSTALLATION - Ceiling



Mikodam

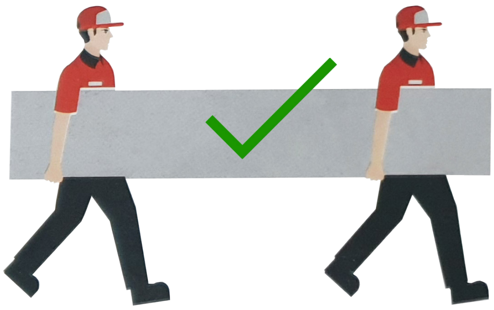
PACKAGING DETAILS

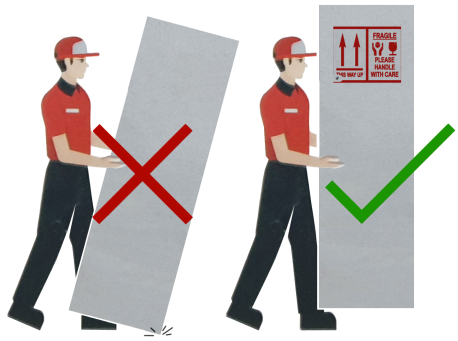
Packaging details: First of all, we cover the product with interlining to prevent it from being scratched. We wrap the 4 edges and corners of the product with blue PE, as shown in the pictures and we cover the surface of the product with 10-12 mm PE. Finally, we wrap it with bubble paper and shrink packaging.

PACKAGING DETAILS

Packaging details for 60x120 panels: The package contains 2 panels. All sides of the products are covered with honeycomb cardboard to prevent it from damages and being scratched. The products are wrapped with shrink packaging after being put in boxes specially prepared for the panels.

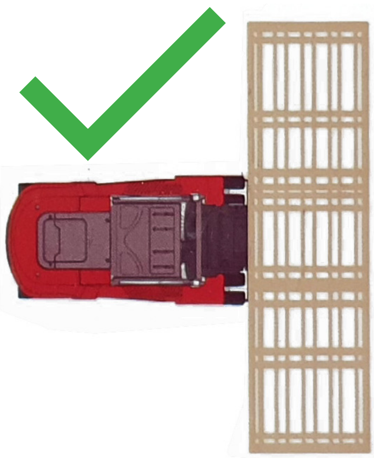
INSTRUCTIONS FOR CARRYING THE PANELS

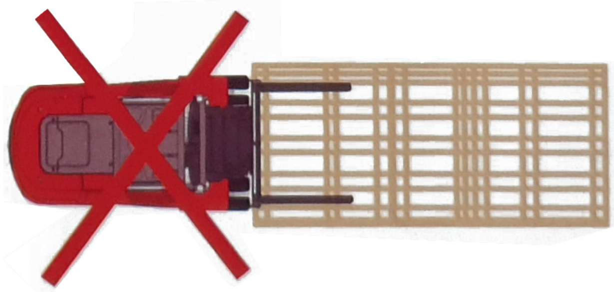




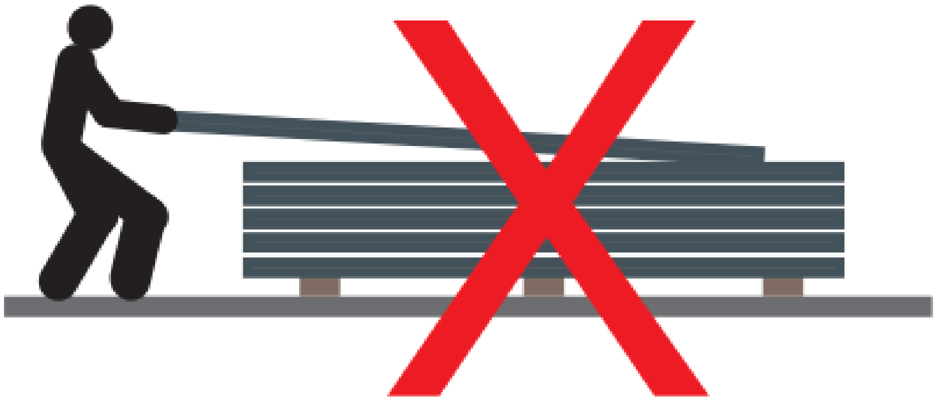
To prevent cracks on the corners, never put Mikodam Panels with their corners on the floor. The panels should always be placed in an upright position with the entire edge standing on the floor.

For proper handling, Mikodam Panels should be carried with the long edge parallel and vertical to the ground, by 2 persons.





INSTRUCTIONS FOR STORAGE



Never put Mikodam Panels on top of each other.

The pictures above show proper vertical storage of our panels in our warehouse.