

## **INSTALLATION GUIDELINES**

### **FOR MURANO ACOUSTICS CEILING PANELS**

#### **1. General Instructions**

##### **1.1. Product: Material and Finishes**

Murano Acoustics panels consist of a natural wood veneer face laminated to a MDF or EcoBoard core with black SoundTex acoustic felt adhered to the back of the panels.

The standard panel thickness is 18 mm. The standard panel sizes vary depending on the panel style and pattern. Refer to the “Panel Styles and Dimensions” document for details.

Murano Acoustics panels are available in six standard natural wood veneer species: maple, oak, cherry, sapele, natural bamboo, and caramelized bamboo.

##### **1.2. Delivery, Storage and Handling**

The panels shall be delivered to the project site in original, unopened packages. The panels shall not be stored in damp warehouses or be placed in moist or freshly plastered buildings.

The wood veneer panels shall be handled with care to prevent any chipping, scratching, scuffing or denting. The cardboard boxes containing the panels can be taken out of the crates in which they were shipped. However the panels shall not be removed from the cardboard boxes prior to 96 hours before the installation to prevent damage. Also, the protective sheets in between the panels shall not be removed prior to 96 hours before the installation.

It is important that the panels are protected from humid conditions and extreme temperatures at all times during storage and installation. The room humidity needs to be maintained between 25% and 55% with the following exceptions: the damp Southern Coastal areas of the U.S. the relative humidity shall be maintained between 43% and 70% inclusive and the dry Southwestern U.S. shall be maintained between 17% and 50% inclusive. The temperatures need to be maintained between 50°F and 86°F. These humidity and temperature conditions need to be maintained during the installation and throughout the life time of the wood panels.

##### **1.3. Project Site Conditions**

Installation shall be done only when all wet work has been completed and dried. Prior to the start of the installation, all exterior windows and doors are to be in place, glazed, and weather-stripped. Mechanical, electrical and other utility service installations shall be completed. The roof is to be watertight and the area broom clean.

For the project site humidity and temperature conditions refer to section 1.2. Delivery, Storage and Handling instructions.

The HVAC systems shall be functioning continuously before, during and after installation. It is important for the rooms to have proper ventilation, especially in high moisture areas. In order for the panels not to expand,

contract, warp, twist or bow there shall be no humidity build up or extreme temperature fluctuations in the installation areas.

#### **1.4. Panel Acclimatization Prior to Installation**

The panels shall be acclimatized to the final environment in which they will be installed for at least 96 hours prior to their installation. Factory finished products require up to a week or more on site for acclimatization. No materials should rest against, or wrap around the Murano Acoustics panels.

When **ALL** the conditions mentioned in paragraphs 1.3. and 1.4. are met, open the cardboard boxes in which the panels are shipped with care. Store panels flat and level, off the ground and on dry pallets in the room in which they will be installed. Add wood stickers in between the panels to improve airflow. The panels shall not be directly exposed to sunlight or sources of heat or cold air. *Allow the acoustic panels to acclimate to the conditions of the final space of installation for* at least 96 hours before installation takes place.

#### **1.5. Panel Sorting and Inspection**

Prior to installation, we recommend that the panels are inspected for scratches, dents or any other type of damage. Also, be advised that because of the natural variations in the wood veneer grain and color, the panels need to be sorted and arranged to create a consistent and coordinated look.

## **2. Fixed Ceiling Murano Acoustics Panel Installation**

### **2.1. Gyp Board Ceiling Installation**

- 2.1.1. The fixed ceiling panel installation is similar to the Murano Acoustics wall panel installation. The fixed ceiling panel installation requires a tongue and groove edge detail to accommodate the Murano Acoustics fixing clip. The tongue and groove edges on the Murano Acoustics grooved panels have been engineered so that the joint between panels is 3mm which is the same as the groove on the panel face. The lateral joints in the grooved panels are virtually undetectable as a result.
- 2.1.2. The ceiling installation of the Murano Acoustics panels can be accomplished by using standard wood furring strips. Depending on the specified orientation of the panels, the furring strips shall be installed perpendicular to the panel.
- 2.1.3. Check ceilings on which the panels are to be installed to make sure they are level and straight. This will determine how much shimming will be required for the wooden furring strips to be plum and level.
- 2.1.4. Prepare layout on the ceiling to determine where the wood furring strips are going to be located and if there are any cut-outs and/or rips that are required on the panels. The dimension of the furring strips shall be consistent with the arrangement of the acoustic panels.
- 2.1.5. The first furring strip should be no more than 1 foot away from the side wall.
- 2.1.6. The spacing between the furring strips is required to be no more than 24" inches on center. A furring strip needs to be installed at the end of each panel in order for both tongue and groove panels to rest on the same furring strip when they butt together.
- 2.1.7. Depending on the project's acoustic requirements, insulation may be inserted between the furring

strips. Insulation is to be attached to the ceiling with appropriate fasteners or adhesives as needed.

2.1.8. Position and fix the first panel to the furring strip using adhesive making sure that the panel is level.

The adhesive shall be applied to the furring strip along the bottom of the first panel. Align the panel double checking it is level and attach the fixing clips by screwing them to the furring strips

2.1.9. Install subsequent tongue and groove panels and secure with fixing clips. Repeat sequence until installation is complete. Attach the last panel of each row to the furring strip using adhesive.

## 2.2. T-Bar System Ceiling Installation

2.2.1. The fixed ceiling panel installation is similar to the Murano Acoustics wall panel installation. The fixed ceiling panel installation requires a tongue and groove edge detail to accommodate the Murano Acoustics fixing clip. The tongue and groove edges on the Murano Acoustics grooved panels have been engineered so that the joint between panels is 3mm which is the same as the groove on the panel face. The lateral joints in the grooved panels are virtually undetectable as a result.

2.2.2. The suspension system shall be a heavy duty 15/16" Exposed Tee Grid. Murano Acoustics does not stock or supply any suspended ceilings grid system. They are to be supplied by others.

2.2.3. Install 1-1/2" wall angle around the room at the height of the finished ceiling.

2.2.4. The t-bar shall be installed perpendicular to the specified orientation of the panels.

2.2.5. The panels are installed using the Fixing Clips as shown in Figure 1-1.

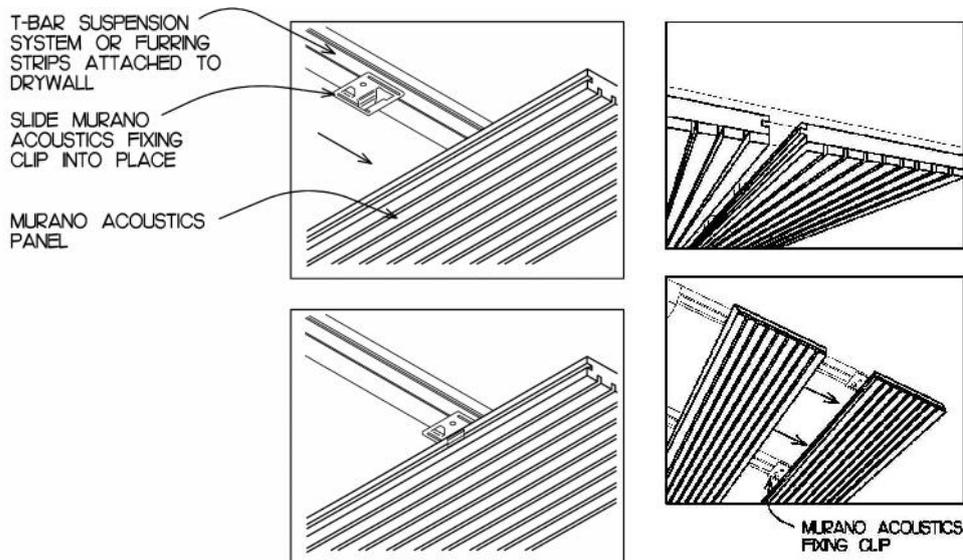


Figure 1-1 Installation Using Fixing Clips

## 3. Traditional (Lay-In) Murano Acoustics Ceiling Panels

3.1. The suspension system shall be a heavy duty grid 15/16" suspension system. Murano Acoustics does not stock or supply any suspended ceilings grid system. They are to be supplied by others.

3.2. Recommended additional accessories required to complete the installation: #12 pre-straightened galvanized steel safety wire and safety clips.

3.3. The ceiling panels for the lay-in installation shall be 2' x 2' or 2' x 4' Murano Acoustics panels as shown in Figure 1-2.

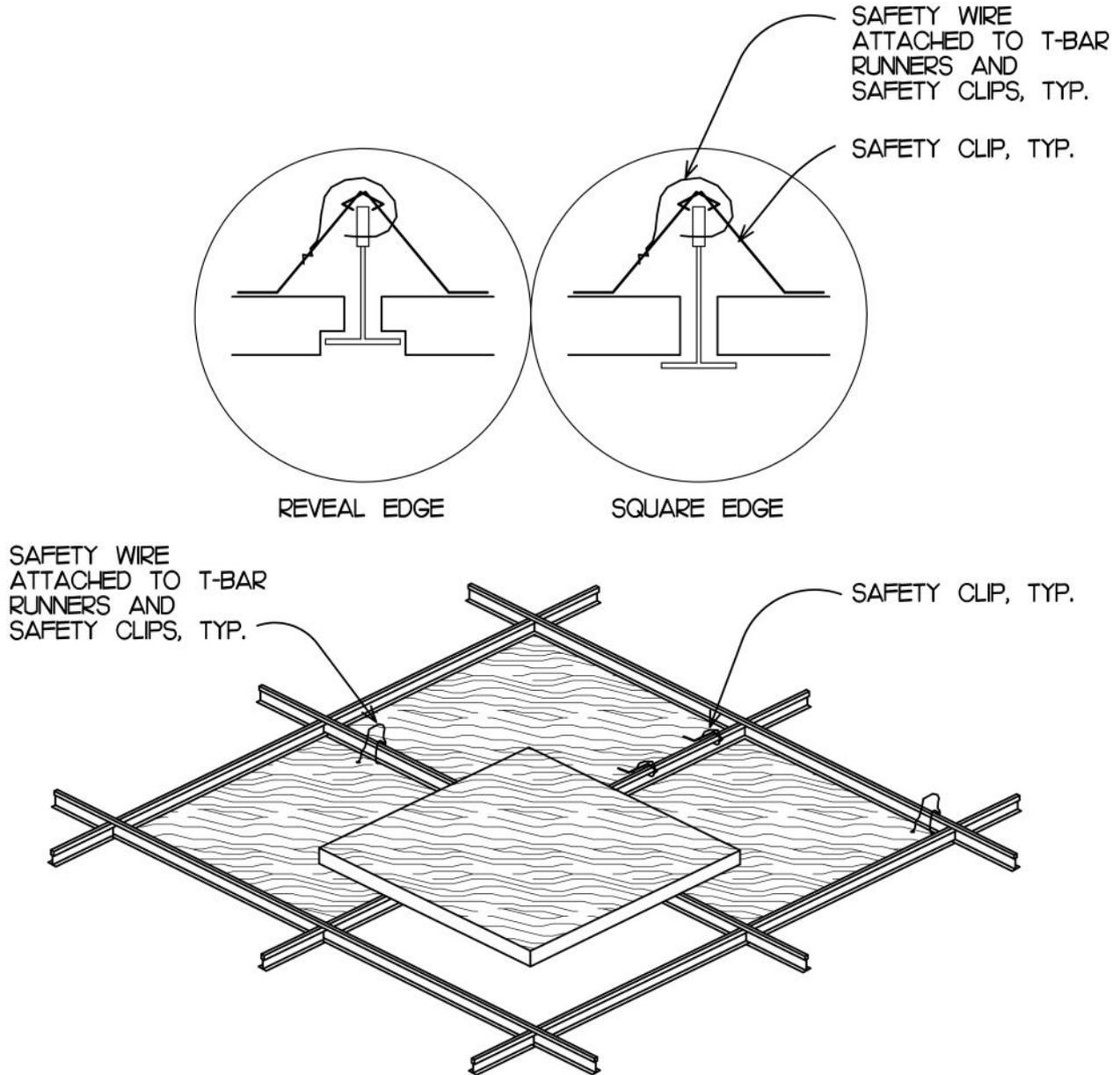


Figure 1-2 Traditional (Lay-In) Murano Acoustics Ceiling Panels

3.4. The Murano Acoustics panels shall be factory routed to fit into heavy duty 15/16" exposed tee suspension systems. Follow traditional method of installation for a lay in ceiling panel.

3.5. Attach safety clips 2" from outside edge of panel and all subsequent clips every 24" on center. (see Figure 1-3 Safety Clip Placement for details)

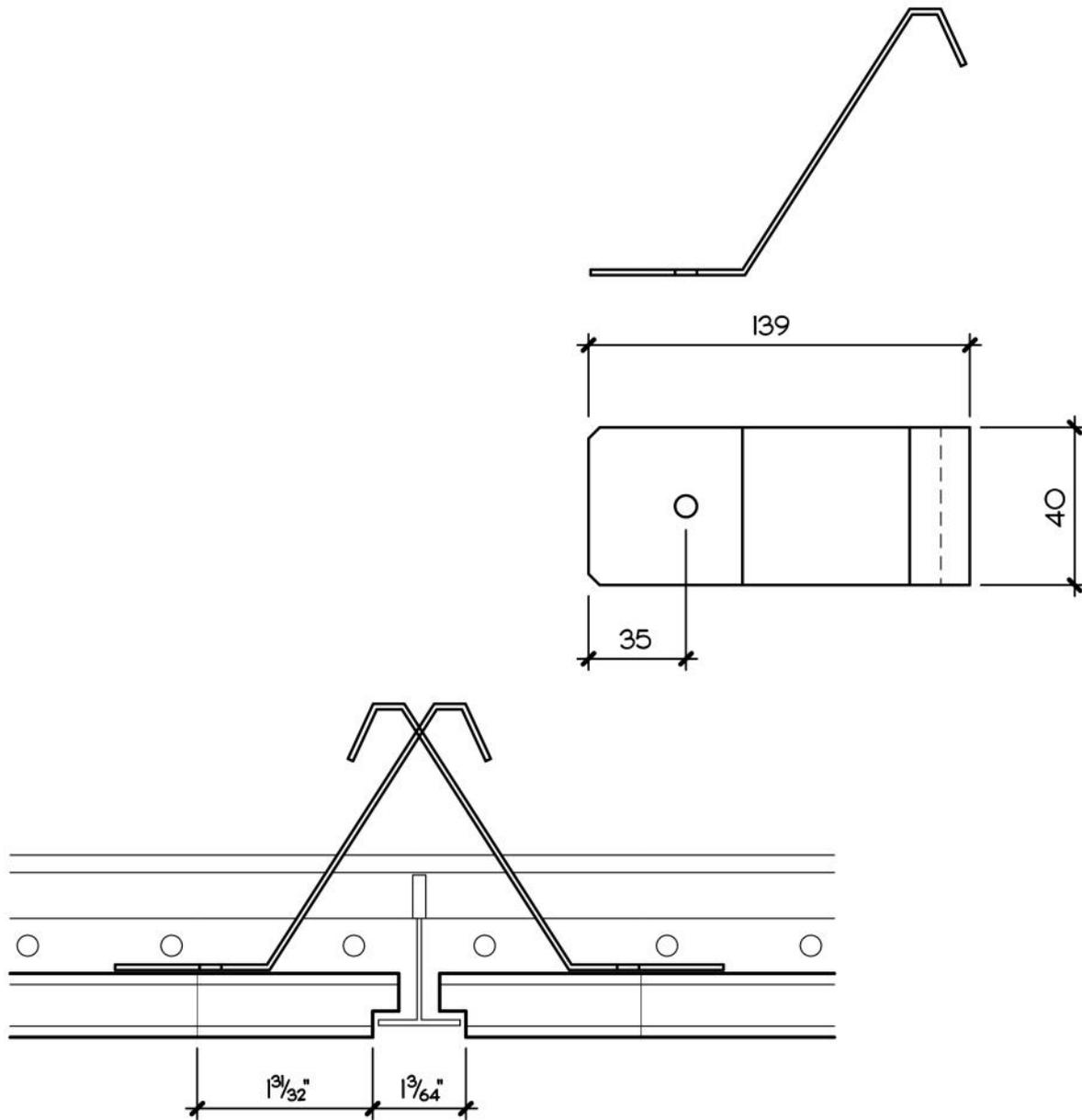
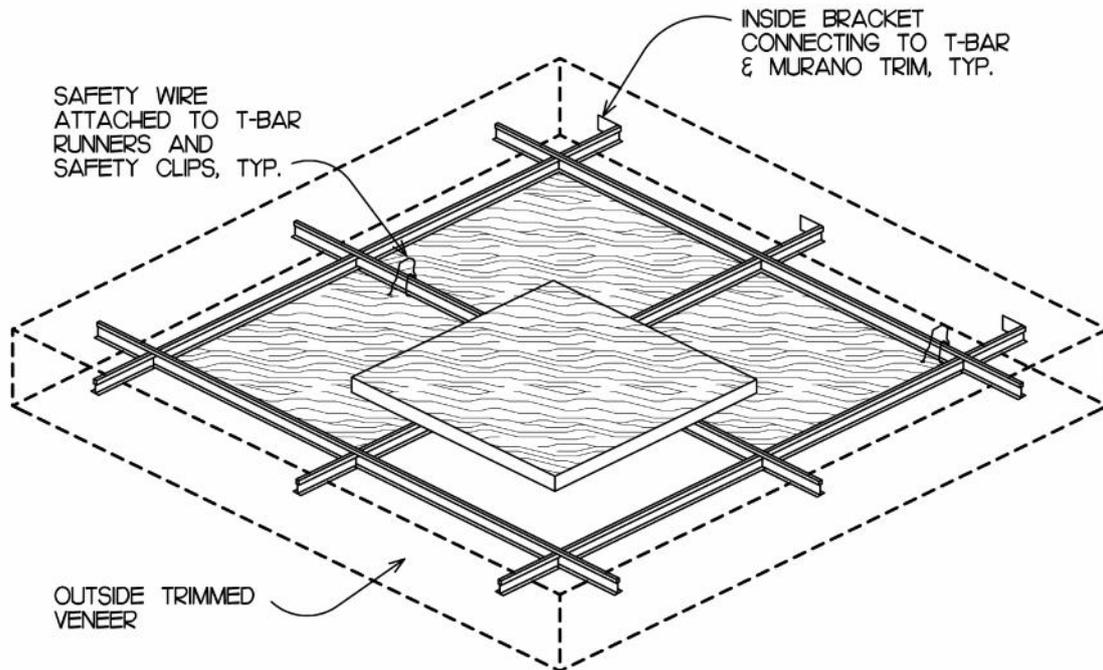


Figure 1-3 Safety Clip Placement for Murano Acoustics Ceiling Panels

- 3.6. If special cuts need to be done on the panels, these shall be field cut so that the correct dimensions are achieved and the standard factory routing is matched.
- 3.7. If perimeter trim is required: Murano trim pieces for a complete finished look can be provided as a full Veneer sheet to be cut in the field or made to order per specified measurements. All Murano trim pieces to be attached to the Heavy Duty 15/16" T-bar grid using a standard 1/8" thick aluminum L angle connection to T-bar system and the perimeter of the Murano Acoustics panels where needed. As an option, Murano Trim pieces can be edge banded for a more finished look.



MURANO TRIM PCS FOR A COMPLETE FINISHED LOOK CAN BE PROVIDED AS A FULL VENEER SHEET (CUT IN THE FIELD) OR MADE PER ORDER (3'-6" PCS). ALL MURANO TRIM TO BE ATTACHED TO THE CHICAGO METALLIC HEAVY DUTY 15/16" T-BAR GRID USING THE MURANO CONNECTOR CLIP WHERE NEEDED. AS AN OPTION, MURANO TRIM CAN BE EDGE BANNED FOR A MORE FINISHED LOOK.

Figure 1-4 Outside Perimeter Trim Pieces for Murano Acoustics Ceiling Panels

#### 4. Cleaning and Protection

Upon completion of the Murano Acoustics panel installation, remove dust from surface, grooves and penetrations by vacuuming using only a soft brush. DO NOT scratch wood surface with sharp metal or plastic vacuum attachments. Remove pencil marks with soft eraser. Remove general surface dirt, dust, grease, oils or fingerprints with a soft damp warm cloth with a mild diluted cleaning agent. Wipe dry with a soft dry cloth. Do not use cleaners with grit or cloths that could scratch the wood surface.

Contractor shall protect completed installation of the Murano Acoustics panels from damage by other trades.

#### 5. Disclaimer

Murano Acoustics shall provide only the acoustical panels for the contractor and/or the installation company. The above recommended installation methods are suitable for most installations, but are not meant to imply any warranty for which Murano Acoustics assumes responsibility. The installation company shall be responsible to ensure that the method of installation used is suitable and reliable for each specific application prior to installation. Murano Acoustics recommends also checking the local seismic codes to make sure the installation method is compliant.