

## Base Preparation

### I. GENERAL INFORMATION

The **GenieMat FF Modular/Large Format Panels** for impact sound insulation are engineered to provide better performance than any other sound control product available, and has been rigorously tested to achieve proven results. Made from pre-engineered OSB (oriented strand board) subfloor panels complete with rubber or engineered elastomer isolators and mineral wool insulation. Rubber isolators are made from 94% recycled rubber content. **GenieMat FF Modular/Large Format Panels** are backed by over 100 independent laboratory and field tests, **GenieMat FF Modular/Large Format Panels** have been selected and used in some of the best hotels and condominiums in the world.

### II. JOB SITE CONDITIONS

Areas to receive interior products or finish flooring over the **GenieMat FF Modular/Large Format Panels** should be weather tight and maintained at minimum, a constant room temperature between 65°F - 95°F (18°C - 35°C) for 48 hours before, during, and after installation.

Please contact Pliteq for **GenieMat FF Modular/Large Format Panel** installation questions regarding specific conditions.

### III. SUBFLOOR REQUIREMENTS AND PREPARATION

NOTE: Please follow the subfloor requirements and preparation recommendations determined by the finished flooring manufacturer. Use the following subfloor requirements and preparation guidelines only when no such recommendations exist for the floor finishing product.

1. All subfloors/substrates must be inspected prior to installation.
2. Install **GenieMat FF Modular/Large Format Panels** over plywood, concrete, and approved self-levelling materials.
3. Concrete subfloors must be fully cured and permanently dry. Subfloor shall be dry, clean, smooth, level, and structurally sound. It should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, according to ASTM F710.
4. Subfloor should be smooth to prevent irregularities, roughness, or other defects from affecting the material above it. The surface should be flat to the equivalent of 3/16" in 10', as described in ACI 117R, or as recommended by the floor manufacturer.
5. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. DO NOT use solvents.

6. Grind high spots until level and fill low spots with an approved leveling compound.
7. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved patching/levelling compound. Allow patching material to dry thoroughly.
8. Any concrete subfloor can be a source of moisture-related flooring failures. It is the installer's responsibility to test the concrete or other cement-like material for moisture.
9. Maximum moisture vapor emission of the concrete must not exceed 5 lbs/1,000 ft<sup>2</sup> in a 24-hour period, as measured by the calcium chloride test method in accordance with the ASTM F1869 standard. If vapor emissions exceed acceptable limits,
10. Maximum relative humidity must not exceed 85% RH, as measured by the relative humidity test method in accordance with the ASTM F2170 standard.

#### IV. HAZARDS

##### 1. SILICA WARNING

Concrete, floor patching compounds, toppings, and levelling compounds can contain free crystalline silica. Cutting, sawing, grinding, or drilling can produce respirable crystalline silica (particles 1-10 micrometers). Respirable silica is classified by OSHA as a 1A carcinogen and is known to cause respiratory diseases like silicosis. Avoid actions that cause dust to become airborne. Use local or general ventilation or protective equipment to reduce exposure below applicable exposure limits.

##### 2. LEAD WARNING

Certain paints may contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and the publication, *Lead Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing*, available from the United States Department of Housing and Urban Development.

##### 3. ASBESTOS WARNING

Resilient flooring, backing, lining felt, paint, or asphaltic "cutback" adhesives could contain asbestos fibers. Avoid actions that cause dust to become airborne. DO NOT sand, dry sweep, dry scrape, drill, saw, beadblast, mechanically chip, or pulverize. Regulations may require that the material be tested to determine asbestos content. Consult the documents titled, *Recommended Work Practices for Removal of Existing Resilient Floor Coverings*, available from the Resilient Floor Covering Institute.

### V. MATERIAL STORAGE AND HANDLING

1. Deliver the material to the job site in its original unopened packaging with all labels intact and stored appropriately to prevent damage.
2. Inspect all material for visual defects before beginning the installation. **Pliteq** will honor no labor claims on material.
3. Verify the material delivered is the correct type, thickness, and amount. Report any discrepancies immediately.
4. Installation of the material constitutes acceptance of the product as proper, and no claim will be honored for the installation of improper or defective material.
5. The material and any adhesive must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
6. In high ambient temperature climates such as deserts the materials can be stored outside but they should be adequately covered to stop any contact with direct sunlight and to also protect them from the ingress of sand and dirt.

## Product

### I. GENIEMAT PMI

#### 1. DESCRIPTION

Flat, resilient, single-ply white polyethylene foam perimeter isolation strip that is used to build a tub around the floor so that no hard floor covering surface touches any hard vertical surface (protrusion or wall).

#### 2. APPLICATION

Attached at the base of the perimeter wall of the entire subfloor, as well as the perimeter of any protrusions, prior to installation of **GenieMat FF** products, in order to isolate or break the vibration transmission path between the floor and the wall.

### II. GENIEMAT TAPE ST3

#### 1. DESCRIPTION

The GenieMat Tape is made of a durable cloth scrim coated with polyethylene for water resistance and backed with a pressure-sensitive rubber adhesive for strong bonding.

#### 2. APPLICATION

Used for installing **GenieMat FF**, effectively closing gaps and preventing air or moisture infiltration.

### III. GENIEMAT FF MODULAR PANELS

#### 1. DESCRIPTION

Pre-engineered OSB (oriented strand board) subfloor panels complete with rubber or engineered elastomer isolators and mineral wool insulation. Rubber isolators are made from 94% recycled rubber content. **GenieMat FF Modular Panels** are used when superior sound control is required in mechanical rooms, sound studios, home theatres, entertainment venues, medical facilities, fitness studios, gyms, or dance floors. **GenieMat FF Modular Panels** can be used in commercial, industrial, and multifamily housing.

#### 2. APPLICATION

Used directly under plywood, gypsum, light-weight, or full-weight concrete.

### IV. GENIEMAT FF LARGE FORMAT PANELS

#### 1. DESCRIPTION

Pre-engineered OSB (oriented strand board) subfloor panels complete with rubber or engineered elastomer isolators and mineral wool insulation. Rubber isolators are made from 94% recycled rubber content. **GenieMat FF Large Format Panels** are used when superior sound control is required in mechanical rooms, sound studios, entertainment venues, medical facilities or in mass timber construction. **GenieMat FF Large Format Panels** can be used in commercial, industrial, and multifamily housing.

#### 2. APPLICATION

Used directly under plywood, gypsum, light-weight, or full-weight concrete.

## Installation

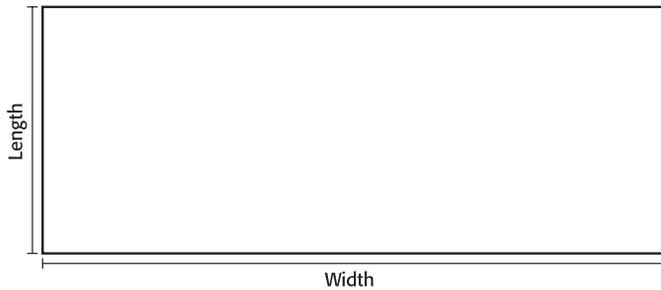
### I. GENIEMAT FF MODULAR PANEL WITH CONCRETE TOPPING

**GenieMat FF Modular Panels** are installed from one corner of the room diagonally to the opposite corner. Subfloor should be clean and prepped as specified by the finish flooring provider's specification. Steps 1-6 should be completed as each panel is installed (i.e. do not install the entire area before stapling the seams). As panels are being installed, place plywood on top in high traffic areas to prevent damaging the panels.

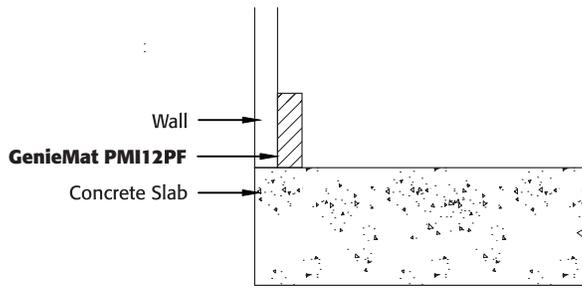
1. Determine overall dimensions of room (width and length). Determine start point of panels to avoid small cuts at perimeter.

# GENIEMAT® FF MODULAR/LARGE FORMAT PANELS

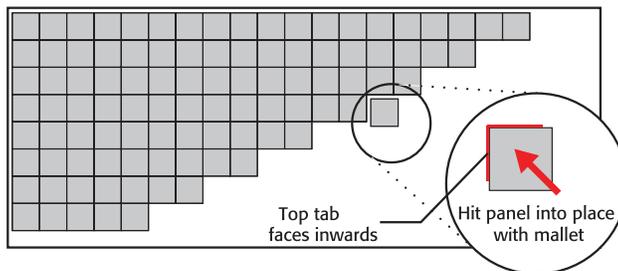
## TECHNICAL INSTALLATION MANUAL



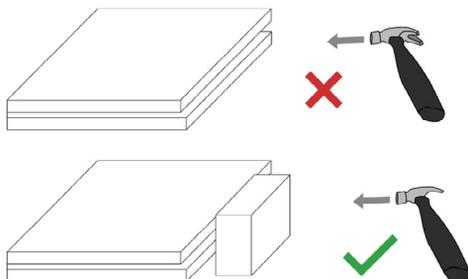
2. Allow for perimeter gap by installing perimeter isolation strip (**GenieMat PMI12PF**) around all columns, walls and protrusions. Tape to the wall with **GenieMat Tape ST3**  
Note: **GenieMat PMI12PF** to extend above height of finished floor.



3. Install panels from one corner of the room diagonally to the opposite corner.



Do not directly hit the edge of the **GenieMat FF Modular Panels** with a mallet or hammer. Use a wood block flush with the edge to distribute the load and protect the edges as the panels are hit into place.



For your project specific questions: **T.416.449.0049** | **E.info@pliteq.com**

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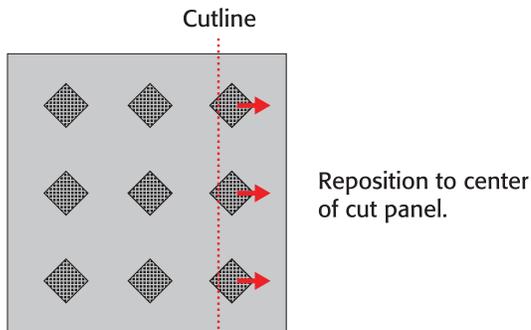
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# GENIEMAT® FF MODULAR/LARGE FORMAT PANELS

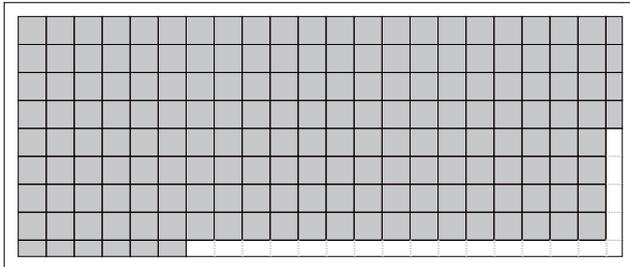
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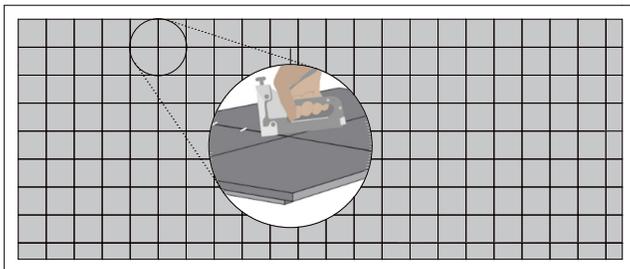
4. a. Cut perimeter panels to size using table saw/circular saw.  
b. If cut piece is small, isolator may need to be repositioned.



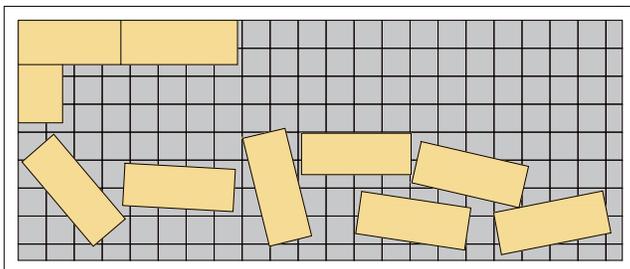
5. Install cut panels around perimeter to complete grid.



6. Staple shiplap in three places per seam.



7. Avoid walking on installed and stapled **GenieMat FF Modular Panels**. Place plywood on top in high traffic areas to prevent damaging the panels.



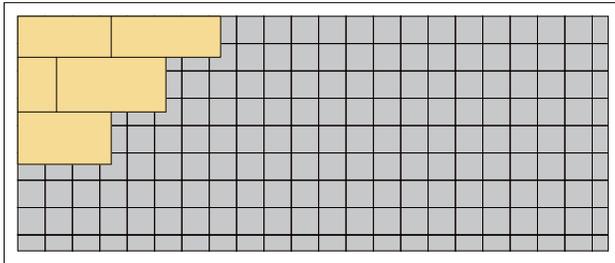
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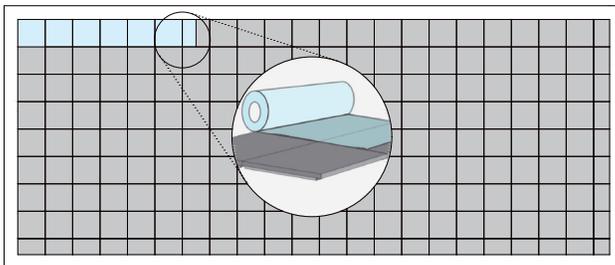
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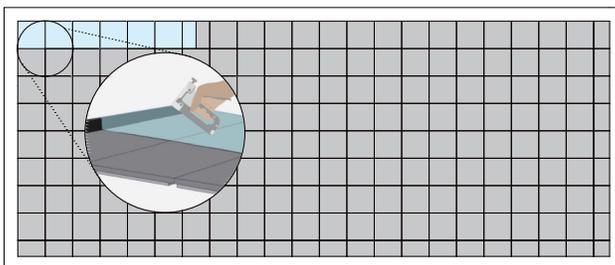
- For **GenieMat FF70LDM Modular Panel** installation only. Install the 1/4" plywood offsetting the seams from the panels. Screw the plywood every 12" on center (screw length should not exceed the thickness of the two layers being screwed together). For **GenieMat FF70 Modular Panel** installation proceed to Step 9.



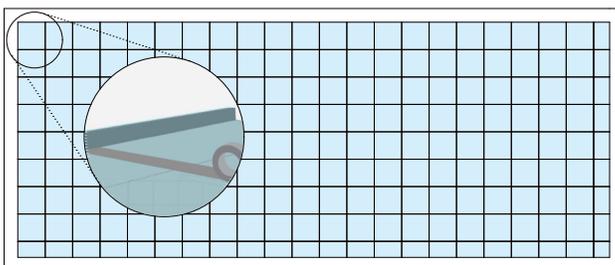
- Roll out 6 mil poly.



- Staple the 6 mil poly to the **GenieMat PMI12PF**. Staple it 3 to 4 inches up the wall in order to cover perimeter gap.



- Tape the seams of the 6 mil poly with **GenieMat Tape ST3**.



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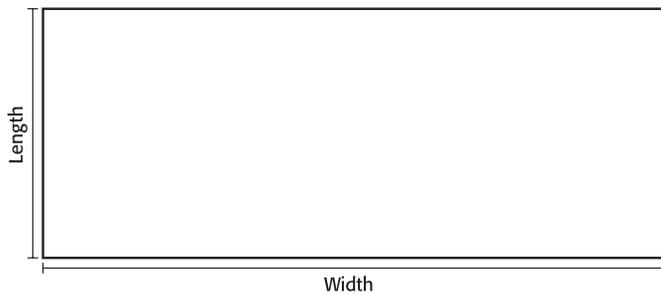
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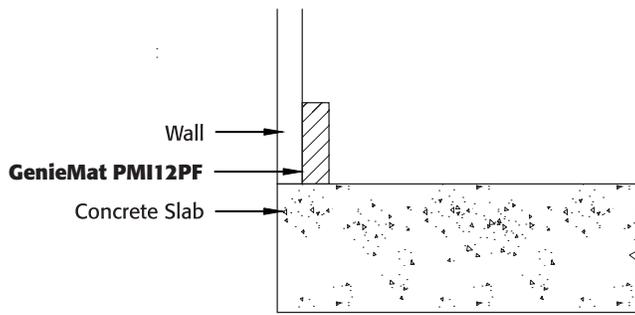
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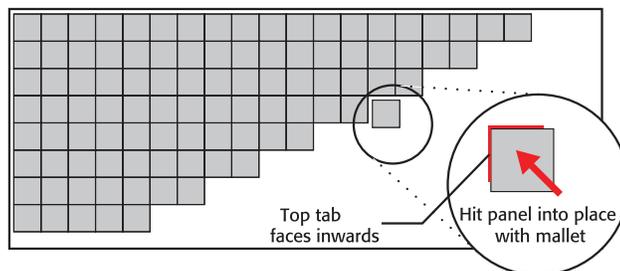
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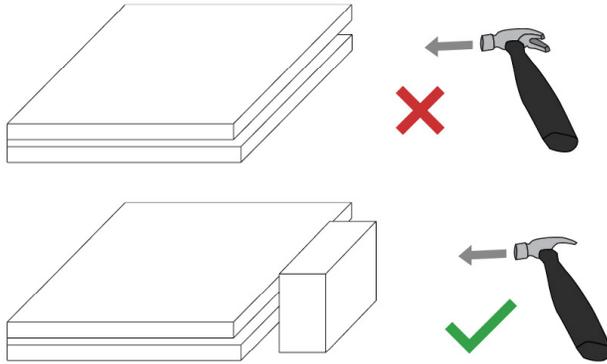
2. Allow for perimeter gap by installing perimeter isolation strip (**GenieMat PMI12PF**) around all columns, walls and protrusions. Tape to the wall with **GenieMat Tape ST3**.  
Note: **GenieMat PMI12PF** to extend above height of finished floor.



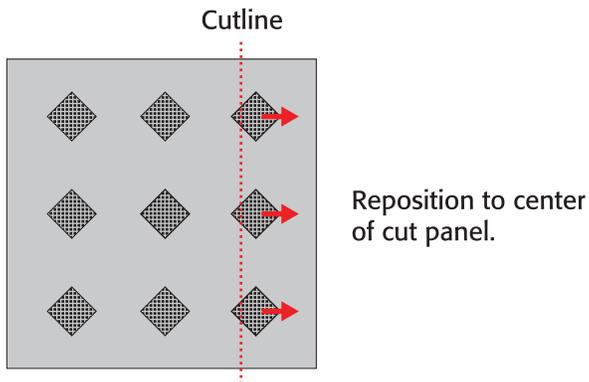
3. Install panels from one corner of the room diagonally to the opposite corner.



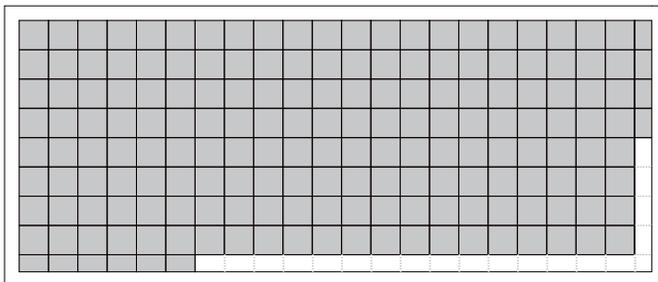
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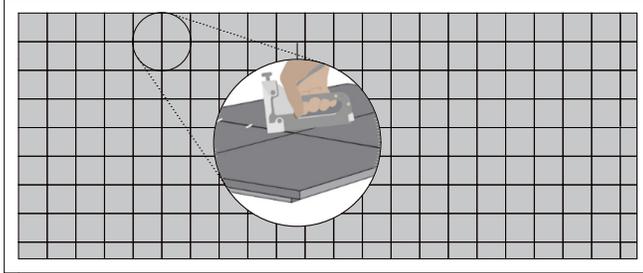
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b. If cut piece is small, isolator may need to be repositioned.



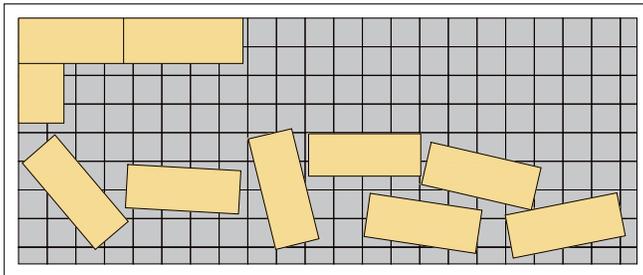
5. Install cut panels around perimeter to complete grid.



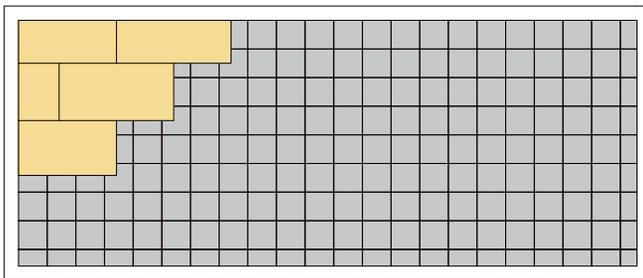
6. Staple shiplap in three places per seam.



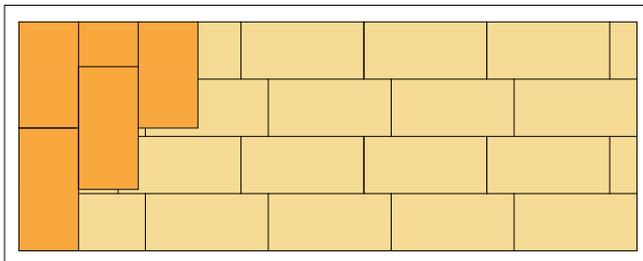
7. Avoid walking on installed and stapled **GenieMat FF Modular Panels**. Place plywood on top in high traffic areas to prevent damaging the panels.



8. Install the plywood offsetting the seams from the panels and adjacent layers of plywood. Screw the plywood every 12" on center (screw length should not exceed the thickness of the two layers being screwed together).



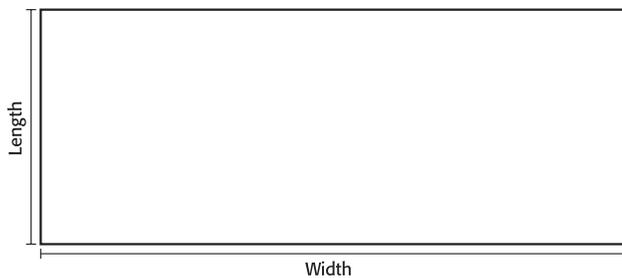
9. Repeat step 8 with second layer of plywood crosslaying in the opposite direction.



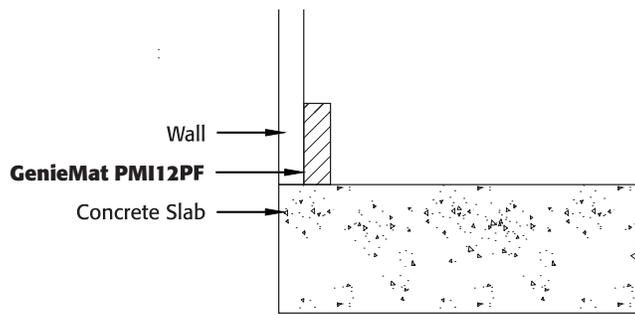
### III. GENIEMAT FF LARGE FORMAT PANEL WITH CONCRETE TOPPING

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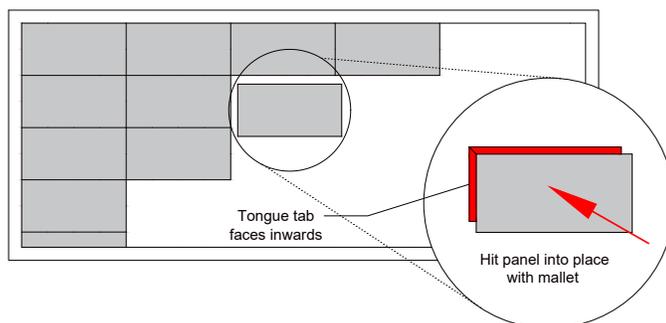
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2. Allow for perimeter gap by installing perimeter isolation strip (**GenieMat PMI12PF**) around all columns, walls and protrusions. Tape to the wall with **GenieMat Tape ST3**  
Note: **GenieMat PMI12PF** to extend above height of finished floor.



3. Install panels from one corner of the room diagonally to the opposite corner.

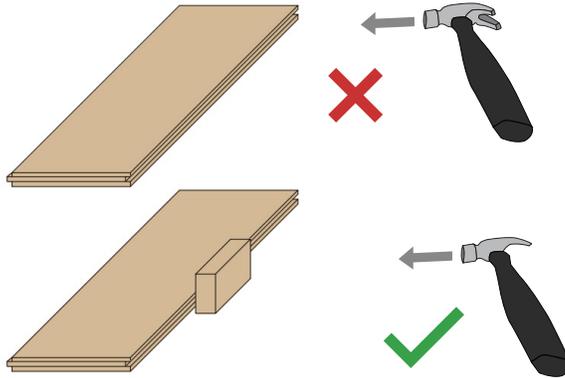


# GENIEMAT® FF MODULAR/LARGE FORMAT PANELS

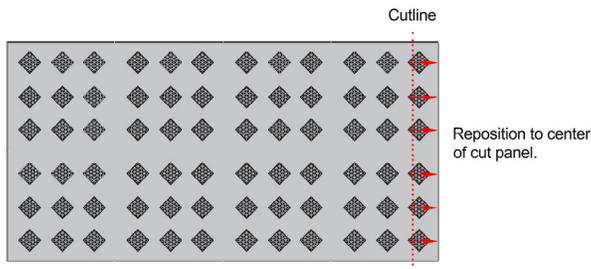
## TECHNICAL INSTALLATION MANUAL



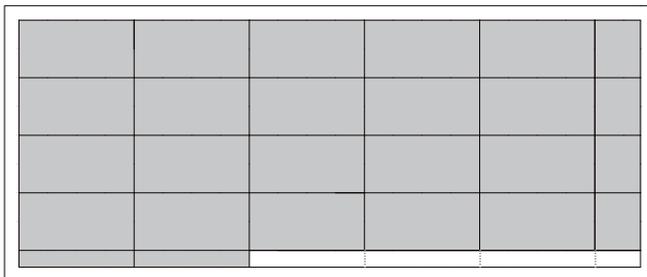
Do not directly hit the edge of the **GenieMat FF Large Format Panels** with a mallet or hammer. Use a wood block flush with the edge to distribute the load and protect the edges as the panels are hit into place.



4. a. Cut perimeter panels to size using table saw/circular saw.  
b. If cut piece is small, isolator may need to be repositioned.



5. Install cut panels around perimeter to complete grid.



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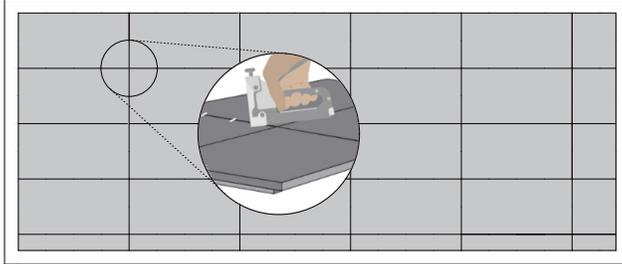
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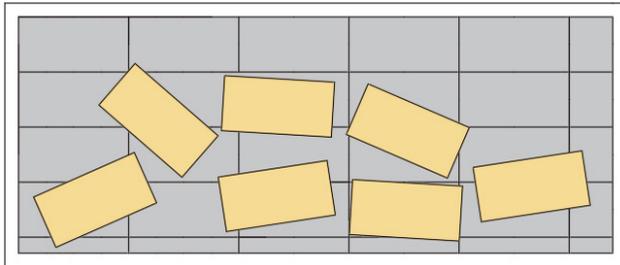
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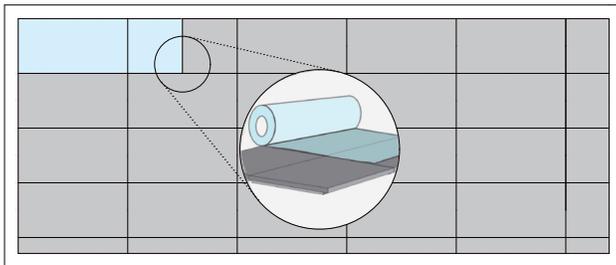
6. Staple tongue and groove in three places per seam.



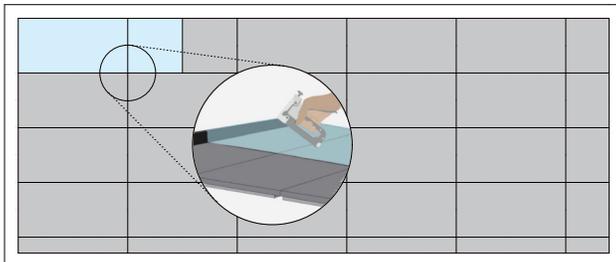
7. Avoid walking on installed and stapled **GenieMat FF Large Format Panels**. Place plywood on top in high traffic areas to prevent damaging the panels.



8. Roll out 6 mil poly.



9. Staple the 6 mil poly to the **GenieMat PMI12PF**. Staple it 3 to 4 inches up the wall in order to cover perimeter gap.



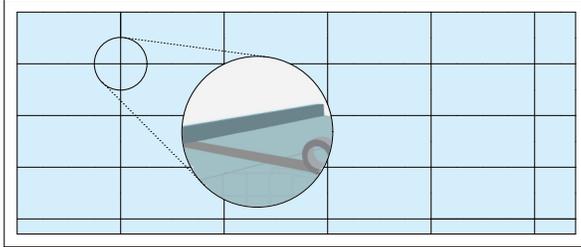
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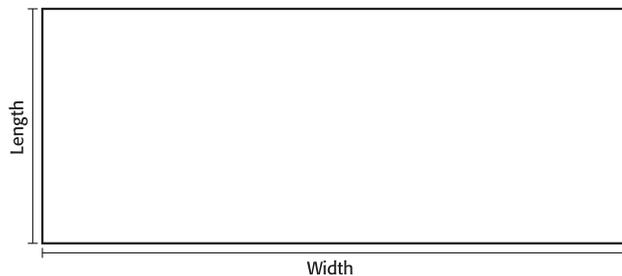
10. Tape the seams of the 6 mil poly with **GenieMat Tape ST3**.



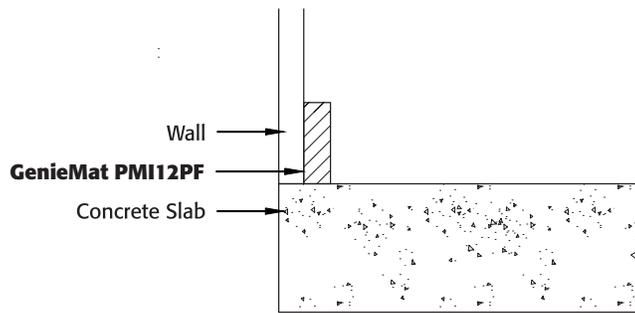
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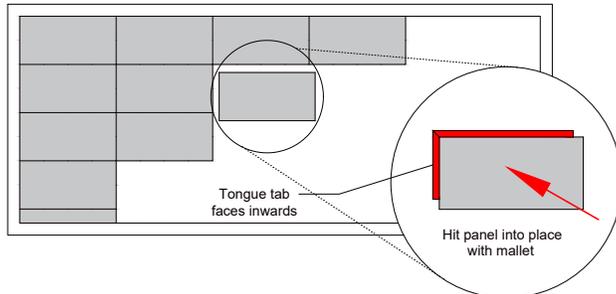


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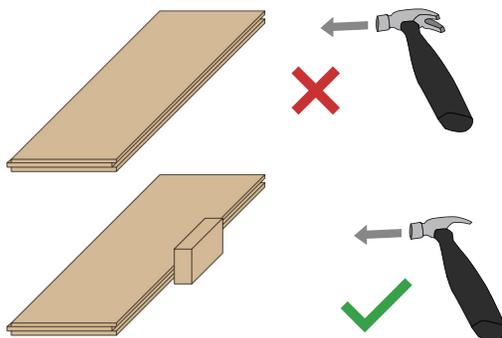
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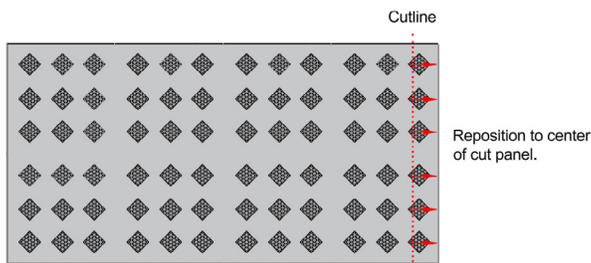
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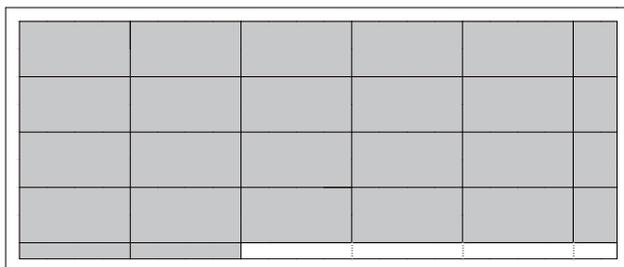
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4. a. Cut perimeter panels to size using table saw/circular saw.  
b. If cut piece is small, isolator may need to be repositioned.



5. Install cut panels around perimeter to complete grid.

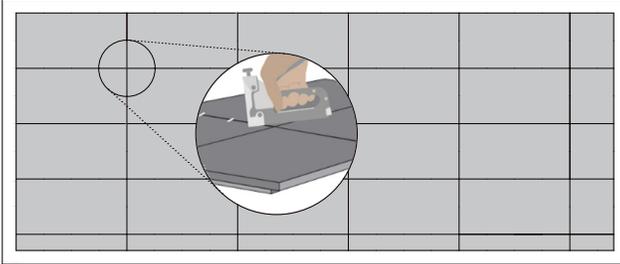


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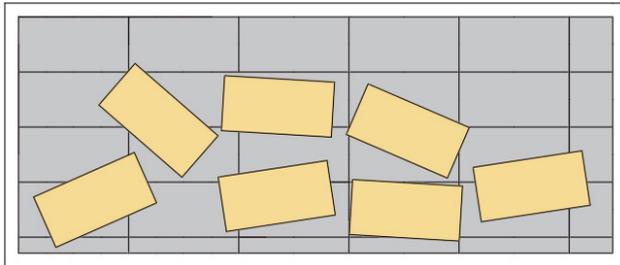
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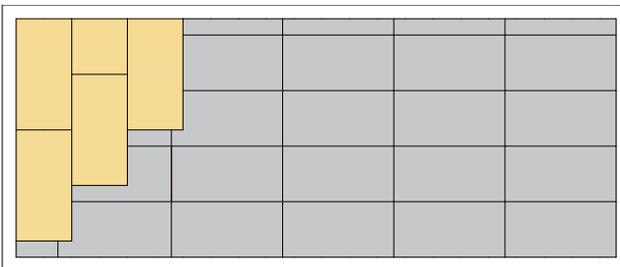
6. Staple tongue and groove in three places per seam.



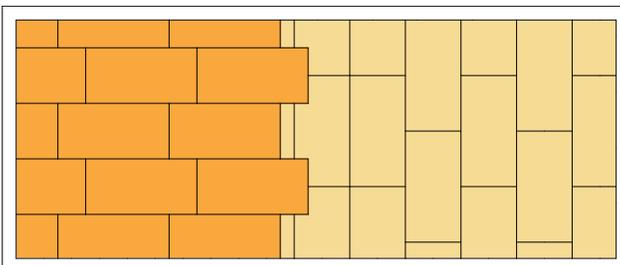
7. Avoid walking on installed and stapled **GenieMat FF Large Format Panels**. Place plywood on top in high traffic areas to prevent damaging the panels.



8. Install the plywood offsetting the seams from the panels and adjacent layers of plywood. Screw the plywood every 12" on center (screw length should not exceed the thickness of the two layers being screwed together).



9. Repeat step 8 with second layer of plywood crosslaying in the opposite direction.



# GENIEMAT® FF MODULAR/LARGE FORMAT PANELS

## TECHNICAL INSTALLATION MANUAL



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