

PLITEQ® GENIEBOARD™ 401

INSTALLATION MANUAL



Base Preparation

I. GENERAL INFORMATION

The **GenieMat FF** line of products for impact sound insulation is engineered to provide better performance than any other sound control product available and has been rigorously tested to achieve proven results. Made from up to 94% recycled rubber content and backed by over 100 independent laboratory and field tests, **GenieMat FF** has been selected and used in some of the best hotels and condominiums in the world.

The **Pliteq GenieBoard** line of products for impact sound insulation is engineered to provide better performance than any other board available and has been rigorously tested to achieve proven results. **GenieBoard** is a universal shiplap flooring board which can be used as a direct alternative to gypsum concrete or multiple plywood and cement board layers.

The **GenieBoard 400** series combines a non-combustible surface board with a resilient substrate system to meet STC and IIC requirements, without the need for the wet trade, while simultaneously allowing for air handling in the plenum.

GenieBoard is connected using screws or staples at 12" OC along board joints with a **Pliteq** adhesive, it can be used directly under all flooring types and on top of all **GenieMat** products in lightweight and heavyweight buildings. All floor covering assemblies shall have prior approval before installation.

II. JOB SITE CONDITIONS

Areas to receive **GenieMat FF** and **GenieBoard** systems 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.

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** and **GenieBoard** over wood, 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.

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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 levelling 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 ft² 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 70% RH, as measured by the relative humidity test method in accordance with the ASTM F2170 standard.

IV. HAZARDS

A. 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.

B. 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.

C. 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.

For Your Project Specific Questions

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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 claim on material installed with any visually apparent defects.
3. Verify the material delivered is the correct type, thickness, and amount. Report any discrepancies immediately.
4. The material and any adhesive must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
5. Roll material is stretched slightly when it is rolled at the factory. At the job site, the installer should allow all cuts to relax before gluing down. Shaking the material once it is unrolled can help it to relax more quickly.
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.
7. The product should be checked periodically for moisture build up inside the roll shrink wrapping.

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Products

I. GenieMat PMI

A. 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).

B. APPLICATION

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

II. GenieMat FF

A. DESCRIPTION

Robust rubber underlay made from 92% recycled rubber content is used when superior sound control is required in mass timber buildings, mechanical rooms, sound studios, home theatres, entertainment venues, medical facilities, exercise, gym, and dance floors, and commercial, industrial, and multifamily housing.

B. APPLICATION

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

III. GenieBoard 401

A. DESCRIPTION

A universal shiplap flooring board which can be used as a direct alternative to gypsum concrete or multiple plywood and cement board layers. The **GenieBoard 400** series combines a non-combustible surface with the **GenieBoard** system, improving the fire rating and allowing for air handling in the plenum.

B. APPLICATION

Can be used directly under all flooring types and on top of all GenieMat products in lightweight and heavyweight buildings.

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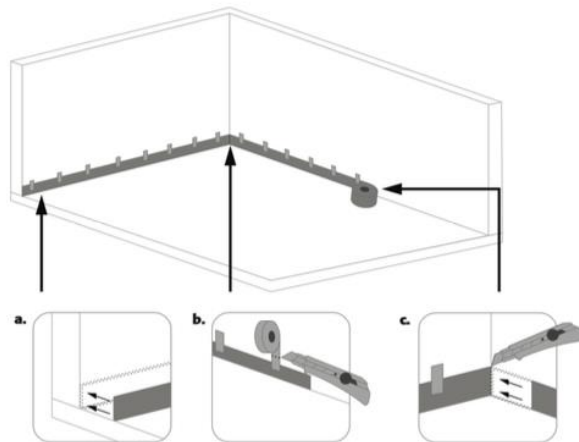
Installation

I. GenieMat PMI

A. GenieMat PMI INSTALLATION

1. Ensure substrate has been prepared and cleaned as detailed above.
2. Roll **GenieMat PMI** perimeter isolation strip to the base of the perimeter wall, of the entire subfloor, as well as the perimeter of any protrusions
3. Tape **GenieMat PMI** perimeter isolation strip to the base of the perimeter wall of the entire subfloor, as well as the perimeter of any protrusions
4. Cut excessive **GenieMat PMI** at the borders (Diagram #1)

Diagram #1



II. GenieMat FF

A. GenieMat FF RESILIENT BASE LAYER INSTALLATION

1. Stage rolls of **GenieMat FF**.
2. Unroll and place **GenieMat FF** underlayment.
3. Trim ends of each section to fit floor surface area.
4. Allow all cuts to relax before taping the joints. Shaking the material once it is unrolled can help it to relax more quickly.
5. Align lengthwise edges of underlayment with neighbouring sheets by butting them up.

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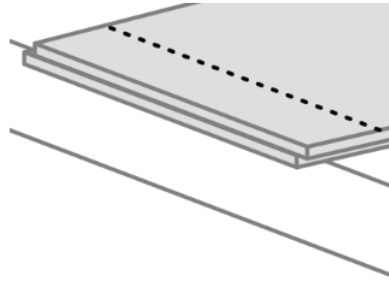
6. Use duct tape or high-quality carpet tape to secure butt joints and seams of **GenieMat FF** and prevent movement during installation of the **GenieBoard**.

II. GenieBoard

A. GenieBoard INSTALLATION

1. Cut off two sides of the shi lap edge of the first **GenieBoard** using a handheld circular saw to ensure proper fitting against the wall corner (Diagram #2).

Diagram #2



2. It is recommended that the room should be measured (x & y) to understand the most efficient cuts and minimize fillet cuts around the perimeter. The minimum length and width for a board is 250mm.
3. For glue-down installation, trowel out **Pliteq**-approved adhesive no more than a board size from the uninstalled area so that new boards can be laid without disturbing the adhesive. Please contact your local **Pliteq** representative for an approved adhesive recommendation.
4. Begin work at one corner of the room and install **GenieBoard** towards the adjacent corner. Use a handheld circular saw to cut additional shi lap edges from the first row of material as required (Diagram #3).

Diagram #3



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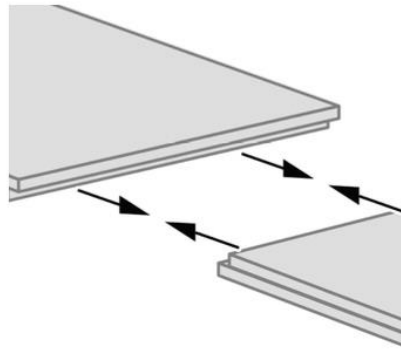
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Note: boards should always be fitted in the longitudinal direction of the room.

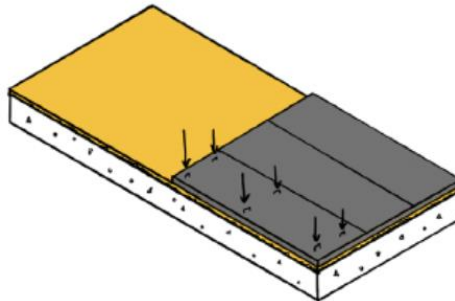
5. Apply Pliteq approved adhesive to the shiplap element of the **GenieBoard** then install by connecting the shiplap joints together (Diagram #4).

Diagram #4



6. Staple or screw **GenieBoard** joints 12" OC within 10 minutes of fitting the boards together to prevent lipping (Diagram #5).

Diagram #5



7. Stand on the overlapped edge for a couple of seconds to ensure proper transfer of adhesive.
8. Scrape off the excess adhesive from the **GenieBoard**. Use a joint filler if required.
9. When you get to the end of an installed row, use a handheld circular saw and trace cut the excess board part. The cutoff piece can be used to start the next row. All rows should be offset/staggered from the previous row (Diagram #6).

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Diagram #6



Recommended Products

NOTE: All materials shall be delivered to the job site in the original containers with the manufacturer's identification on each package. Unauthorized modification to any product is not permitted. The following materials are listed because of their extensive testing and field experience with **GenieMat** products. If you would like us to evaluate any materials as alternatives, call **Pliteq** Technical Services at (416) 449-0049.

I. ACOUSTICAL SEALANT

A. Pecora AC-20® FTR

II. JOINT ADHESIVE

A. **PLITEQ® FAS-B** Adhesive

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Warranty Information

1. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

1.1: The recommendations for applications and installation are based on our extensive experience and on current technological practice. Our liability and responsibility in the event of damages is limited to the extent defined in our General Terms and Conditions of Business and is not in any way increased by the above recommendations or by advice given by our sales representatives or applications engineering staff.

1.2: **Pliteq** Inc. is a corporation duly organized and validly existing under the laws of the province of Ontario. **Pliteq** offers a limited lifetime warranty on the **GenieMat** brand of Sound Control Underlayment products against defects in material and workmanship and that **GenieMat** shall meet all published specifications and shall perform effectively. **Pliteq** warrants that during the warranty period **GenieMat** shall not harden, become brittle, chip, crack, tear, or exhibit any signs of excessive deterioration except for normal wear and tear. All other warranties including implied warranties for a purpose are expressly excluded. The sole remedy against the seller will be the replacement or repair of the defective goods, or at seller's option, credit may be issued not exceeding the selling price of the defective goods.

1.3: To qualify for replacement or repair, a claim is required to be made directly to **Pliteq**. All claims are required to be made by telephone at 416-449-0049 or a written claim can be sent to the following address:

Pliteq Inc.
131 Royal Group Crescent
Vaughan, ON
L4H 1X9
Canada

1.4: **Pliteq** must be notified within 14 days of the discovery of a defect and prior to installation. Any claims initiated outside of this limitation period are deemed invalid. A **Pliteq** claim form including customer requirements must be completed and submitted to **Pliteq** within 30 days of notification of defect. Once a claim process is initiated, a material inspection may be performed at **Pliteq's** discretion to ensure the situation is resolved in a comprehensively fair manner.

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General Terms and Conditions of Business

Our general terms and conditions of business, as may be amended from time to time, shall apply to all transactions between us and our customers. Any differing conditions or terms of the buyer are herewith objected to and shall not apply. Any agreement affecting the execution of this contract must be in writing.

We reserve the right to adapt prices, for confirmed orders as well, to reflect any increase in our costs, for any reason beyond our control, if this increase happens after confirmation of the order but before delivery of goods.

Our prices do not include taxes. Confirmed delivery dates are not fixed dates unless stated otherwise. Samples and catalogues are to be considered non-binding material for illustration and/or test purposes, giving only an approximation of properties and specifications.

Unless agreed otherwise, our invoices are to be paid with payment terms of 30 days upon receipt of merchandise and invoice. Should a customer fail to comply within 30 days, he will automatically be in default of payment. Payment is considered made when it is at our disposal.

Should there be reasons to doubt the solvency or credit standing of the client, we reserve the right to demand securities or prepayment for any outstanding delivery or declare immediate maturity of all outstanding claims. Our technical advice is given according to our best knowledge and experience and proven laboratory testing.

We require 50% payment upfront for all **GenieMat FF** panels and all custom orders with the remaining balance to be paid upon agreed-upon payment terms. Shipping will be requested at the time of shipping, any estimated amount provided prior to that shall be for estimation purposes only. We reserve the right to issue a credit, not a refund, on products that are returned. We will not accept returns without prior authorization.

We charge a 50% restocking fee for items not received on an Order Acknowledgement, or, for items returned to us. Any missed pickups from the factory/warehouse will be subject to a \$250 USD fee added to the Order Acknowledgment. Same-day rush orders will be based on availability (can be the following morning) and will be subject to a \$150 USD fee added to the Order Acknowledgment. If a same-day rush order is cancelled the client will be responsible for the same-day rush and restocking fees which will be added to the Order Acknowledgment. All adhesive purchases are final sales. Without agreed-upon ship dates, storage fees of \$100 USD/pallet/month will be charged to the customer. Discounts for TL (truckload) orders are only applied to orders that require 30 days lead time on delivery and this is at the company's discretion (we may ship sooner if the product is available).

For all warranty information please see specific product specification guides as found on our [website](https://www.pliteq.com).

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