

Product Guide Specification
Pliteq[®] GenieMat[®] FF06, GenieMat FF10, GenieMat FF17,
GenieMat FF25, GenieMat FF50, GenieMat FF75

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including MasterFormat, SectionFormat, and PageFormat, contained in the CSI Manual of Practice.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.

Delete all “Specifier Notes” when editing this section.

SECTION 03 30 00
CAST-IN-PLACE CONCRETE

*Specifier Notes: This section covers **Pliteq Inc.** “**GenieMat FF**” installed underneath finish flooring to reduce airborne and impact sound transmission. Consult **Pliteq Inc.** for assistance in editing this section for the specific application.*

Part 1.0 – General

1.1: Summary

1.1.1: The work of this section includes:

1.1.1.1: Types of re-bonded recycled rubber Floating Floor Underlayment to be placed under flooring in living units

1.1.2: Related Sections: Section(s) related to this article include:

- 1.1.2.1: Concrete Substrate
- 1.1.2.2: Plywood Substrate
- 1.1.2.3: Tile
- 1.1.2.4: Carpeting
- 1.1.2.5: Noise Control and Vibration Isolation

1.2: References

1.2.1: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by an issuing authority, authority abbreviation, designation number, title, or other designation established by the issuing authority. Standards subsequently referenced herein are referred to by an issuing authority and standard designation.

1.2.2: American Society for Testing and Materials (ASTM):

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- 1.2.2.1: ASTM E492 - Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
 - 1.2.2.2: ASTM C627 - Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester
 - 1.2.2.3: ASTM E989 Standard Classification for Determination of Impact Insulation Class (IIC)
 - 1.2.2.4: ASTM E1007 - Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structures
 - 1.2.2.5: ASTM E2179 - Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors
 - 1.2.2.6: ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
 - 1.2.2.7: ASTM E336 Standard Test Method for Measurement of Airborne Sound Insulation in Buildings
 - 1.2.2.8: ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in-situ Probes
 - 1.2.2.9: ASTM D5116 CHPS/CA 01350 – Collaborative of High Performance Schools, Low-Emitting Materials Criteria
 - 1.2.2.10: ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- 1.2.3: South Coast Air Quality Management District (SCAQMD) Rule # 1168
- 1.2.3.1: VOC standards for adhesive and sealant applications
- 1.2.4: Leadership in Energy and Environmental Design – LEED®
- 1.2.5: International Organization for Standardization® document, ISO 14021 – Provides guidance on the terminology, symbols, testing, and verification methodologies that an organization should use for self-declaration of the environmental aspects of its products and services.

1.3: System Description

- 1.3.1: Performance Requirements: Provide recycled rubber resilient flooring, which has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage, or failure.

1.4: Submittals

- 1.4.1: General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- 1.4.2: LEED: Provide documentation of how the requirements for credit will be met.
 - 1.4.2.1: List of proposed materials with recycled content. Indicate pre-consumer and post-consumer content.

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- 1.4.2.2: Product data and certification letter indicating percentage of recycled content for both pre-consumer and post-consumer content.
- 1.4.2.3: Recycled content is defined in accordance with the International Organization for Standardization document, ISO 14021 Environmental labels and declarations.
 - 1.4.2.3.1: Post-consumer material - waste materials diverted from the waste stream after consumer or commercial use.
 - 1.4.2.3.2: Pre-consumer material - materials diverted from the waste stream during the manufacturing process. Excluded are regrind, rework, and scrap.
- 1.4.3: Product Data: Submit product data, including manufacturer's guide specifications product sheet, for specified products.
- 1.4.4: Shop Drawings: Manufacturer's specifications, catalog cuts, and other items needed to demonstrate compliance with the specified requirements. Also the manufacturer's recommended installation procedures, which, when approved by the architect, will become the basis for accepting or rejecting actual installation procedures used on work.
- 1.4.5: Samples: Submit selection and verification samples for finishes, colors, and textures.
- 1.4.6: Quality Assurance Submittals: Submit the following:
 - 1.4.6.1: Certificates: If required, certification of performance characteristics specified in this document shall be provided by the manufacturer.
 - 1.4.6.2: Manufacturer's Instructions: Manufacturer's installation instructions.
- 1.4.7: Closeout Submittals: Submit the following:
 - 1.4.7.1: Warranty: Warranty documents specified herein.

1.5: Quality Assurance

- 1.5.1: Qualifications
 - 1.5.1.1: Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - 1.5.1.1.1: Certificate: When requested, submit certificate indicating qualification.
 - 1.5.1.2: Manufacturers' Qualifications: Manufacturer capable of approving application method.
- 1.5.2: Regulatory Requirements: [specify applicable requirements of regulatory agencies].
- 1.5.3: Mock-Ups: Install at project site a job mock-up using acceptable products and manufacturer-approved installation methods. Comply with workmanship standard. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.
 - 1.5.3.1: Mock-Up Size: As determined by acoustical consultant.

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- 1.5.3.2: Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
- 1.5.3.3: Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- 1.5.4: Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's instructions, and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings) Section.
- 1.5.5: Pre-installation Testing: Conduct pre-installation testing as follows: [specify substrate testing; consult with flooring manufacturer].

1.6: Delivery, Storage, and Handling

- 1.6.1: General: Comply with Division 1 Product Requirements Sections.
- 1.6.2: Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- 1.6.3: Delivery: Deliver materials in manufacturer's original, unopened, and undamaged containers with identification labels intact.
- 1.6.4: Storage and Protection: Store materials at temperature and humidity conditions recommended by manufacturer and protect from exposure to harmful weather conditions.

1.7: Project Conditions

- 1.7.1: Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during, and after installation as recommended by manufacturer.
- 1.7.2: Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.8: Warranty

- 1.8.1: Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
 - 1.8.1.1: 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.
 - 1.8.1.2: **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

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Sound Control Underlayment products against defects in material and workmanship and that **GenieMat** shall meet all published specifications and shall perform effectively. **Pliteq** warranties that during the warranty period 1.8.1.3: **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.

1.8.1.3: 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

1.8.1.4: **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.

1.8: Maintenance

1.8.1: Extra Materials: Deliver to Owner extra materials from the same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals (Maintenance Materials) Section.

1.8.1.1: Quantity: Furnish quantity of re-bonded recycled rubber Floating Floor Underlayment units as requested on purchase order.

1.8.1.2: Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage, and protection of extra materials.

Part 2.0 – Proprietary Manufacturer/Products

2.1: Manufacturer: **Pliteq Inc.**

2.1.1: Address: 131 Royal Group Crescent, Vaughan, ON L4H 1X9; Telephone: (416) 449-0049; Fax: (416) 849-0415; Email: info@pliteq.com

2.2: Proprietary Product(s)

2.2.1: **Pliteq GenieMat Re-Bonded Recycled Rubber Floating Floor Underlayment manufactured by Pliteq Inc.**

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- 2.2.1.1: **Pliteq GenieMat FF06, GenieMat FF10, GenieMat FF17, GenieMat FF25, GenieMat FF50, GenieMat FF75** Re-Bonded Recycled Rubber Floating Floor Underlayment
- 2.2.1.2: **Pliteq GenieMat PMI05R, GenieMat PMI10R** Re-bonded Recycled Rubber Perimeter Isolation Strip
- 2.2.1.3: **Pliteq GenieMat PMI06PF, GenieMat PMI12PF** Polyethylene Foam Perimeter Isolation Strip

2.3: **Pliteq GenieMat FF06, GenieMat FF10, GenieMat FF17, GenieMat FF25, GenieMat FF50, GenieMat FF75** Re-Bonded Recycled Rubber Floating Floor Underlayment

- 2.3.1: Product Name: The non-laminated, single-ply re-bonded rubber underlayment furnished under this specification shall be **Pliteq GenieMat** Recycled Rubber Floating Floor Underlayment.
- 2.3.2: Material: Made from 92% recycled rubber content, **GenieMat FF** is a dimpled, resilient base mat that can be applied under gypsum or full weight concrete to produce some of the thinnest sound rated systems in the industry.
- 2.3.3: US PATENT No.: 8,240,430
- 2.3.4: Sheet Dimension: **GenieMat FF** rolled rubber underlayment will have an overall nominal thickness of _____ (specify: 1/4" [nom. 6 mm] standard in 4' by 15' [nom. 1.2 m by 9.1 m] roll size for **GenieMat FF06**, or 3/8" [nom. 10 mm] standard in 4' by 15' [nom. 1.2 m by 9.1 m] roll size for **GenieMat FF10**, or 3/4" [nom. 17 mm] standard in 4' by 15' [nom. 1.2 m by 9.1 m] roll size for **GenieMat FF17**, or 1" [nom. 25 mm] standard in 4' by 15' [nom. 1.2 m by 4.6 m] roll size for **GenieMat FF25**, or 2" [nom. 50 mm] standard in 4' by 15' [nom. 1.2 m by 4.6 m] roll size for **GenieMat FF50**, or 3" (nom. 75 mm in 4' by 15' [nom. 1.2 m by 4.6 m] roll size for **GenieMat FF75**).
- 2.3.5: Sheet Weight: **GenieMat FF** rolled rubber underlayment will have an overall weight of _____ (specify: [0.6 lb/ft² [2.9 kg/m²] standard for **GenieMat FF06**, 1.0 lb/ft² [4.9 kg/m²] standard for **GenieMat FF10**, 1.7 lb/ft² [8.3 kg/m²] standard for **GenieMat FF17**, 2.2 lb/ft² [10.7 kg/m²] standard for **GenieMat FF25**, 4.4 lb/ft² [21.4 kg/m²] standard for **GenieMat FF50**, 6.6 lb/ft² [32.1 kg/m²] standard for **GenieMat FF75**).
- 2.3.6: Sheet Standard Tolerances: Tolerances are pursuant to ISO 3302-1.
- 2.3.7: Impact Insulation Class Laboratory (ASTM E492): Specified floor-ceiling assembly must be tested in a NVLAP certified laboratory and comply with ASTM standards. **GenieMat FF25** thickness shall be tested over a 6" concrete slab with 4" concrete topping to an IIC rating of 65 or greater.
- 2.3.8: Impact Insulation Class Field (ASTM E1007): Floor-ceiling assembly must meet requirement as stated by building code and/or acoustical consultant.
- 2.3.9: Reduced Impact Sound Transmission (ASTM E2179): Specified floor-ceiling assembly must be tested in a NVLAP certified laboratory and comply with ASTM standards. **GenieMat FF25** thickness shall be tested over a 6" concrete slab with 4" concrete topping to a ΔIIC rating of 32 or greater.

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2.3.10: Sound Transmission Class Laboratory (ASTM E90): Specified floor-ceiling assemble must be tested in a NVLAP certified laboratory and comply with ASTM standards. **GenieMat FF25** thickness shall be tested over a 6" concrete slab with 4" concrete topping to an STC rating of 70 or greater.

2.3.11: VOC Washington State IAQ Test (ASTM D5116): pass

2.4: **Pliteq GenieMat PMI05R, GenieMat PMI10R** Re-bonded Recycled Rubber Perimeter Isolation Strip

2.4.1: Product Name: The non-laminated, single-ply re-bonded rubber perimeter isolation strip under this specification shall be **Pliteq GenieMat** Re-bonded Recycled Rubber Perimeter Isolation Strip.

2.4.2: Material: Made from 94% recycled rubber content, **GenieMat** Perimeter Isolation Strip is a flat, resilient strip that is used to build a tub around the floor so that no hard surface (floor covering) touches any hard vertical surface protrusion or wall.

2.4.3: Sheet Dimension: **GenieMat** rolled perimeter isolation strip will have an overall nominal thickness of _____ (specify: 3/16" [nom. 5 mm] in 3" by 30' [nom. 0.08 m by 9.1 m] roll size for **GenieMat PMI05R**, or 3/8" [nom. 10 mm] in 3" by 15' [nom. 0.08 m by 4.6 m] roll size for **GenieMat PMI10R**).

2.4.4: Sheet Weight: **GenieMat** rolled perimeter isolation strip will have an overall weight of _____ (specify: 1.0 lb/ft² [5.1 kg/m²] for **GenieMat PMI05R**, or 2.0 lb/ft² [10.2 kg/m²] for **GenieMat PMI10R**).

2.5: **Pliteq GenieMat PMI06PF, GenieMat PMI12PF** Polyethylene Foam Perimeter Isolation Strip

2.5.1: Product Name: The single-ply white polyethylene foam perimeter isolation strip under this specification shall be **Pliteq GenieMat** Polyethylene Foam Perimeter Isolation Strip.

2.5.2: Material: Made from white polyethylene foam, **GenieMat** Polyethylene Foam Perimeter Isolation Strip is a flat, resilient strip that is used to build a tub around the floor so that no hard surface (floor covering) touches any hard vertical surface (protrusion or wall).

2.5.3: Sheet Dimension: **GenieMat** rolled polyethylene foam perimeter isolation strip will have an overall nominal thickness of _____ (specify: 1/4" [nom. 6 mm] in 3" by 50' [nom. 0.08 m by 15.2 m] roll size for **GenieMat PMI06PF**, or 1/2" [nom. 12 mm] in 6" by 50' [nom. 0.15 m by 15.2 m] roll size for **GenieMat PMI12PF**).

2.5.4: Sheet Weight: **GenieMat** rolled polyethylene foam perimeter isolation strip will have an overall weight of _____ (specify: 0.035 lb/ft² [0.171 kg/m²] for **GenieMat PMI06PF**, or 0.07 lb/ft² [0.34 kg/m²] for **GenieMat PMI12PF**).

*Specifier Notes: The following materials are not furnished by **Pliteq Inc.***

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2.6: Floating Floor Drains

2.6.1: Shall be of type and size suitable for project and floating slab construction, isolated so as to have no rigid connection between the floating floor and building structure

2.7: Polyethylene Sheeting

2.7.1: Minimum 6 mil thickness

2.8: Product Substitutions

2.8.1: Substitutions: No substitutions permitted

2.9: Related Materials

2.9.1: Related Materials: Refer to other sections listed in Related Sections paragraph herein for related materials

2.10: Source Quality

2.10.1: Source Quality: Obtain re-bonded recycled rubber impact sound insulation materials from a single manufacturer

Part 3.0 – Execution

3.1: Manufacturers' Instructions

3.1.1: Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, and product carton instructions for installation.

3.2: Examination

3.2.1: Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.3: Preparation

3.3.1: Surface Preparation: Surfaces shall be prepared in accordance with ANSI standards.

3.4: Erection/Installation/Application/Construction

3.4.1: Re-bonded Recycled Rubber Floating Floor Underlayment: Comply with the **Pliteq GenieMat** Technical Installation Manual for procedures and techniques for re-bonded recycled rubber Floating Floor Underlayment installation.

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3.4.2: Related Products Installation: Refer to other sections listed in Related Sections paragraph herein for related products installation.

3.4.3: Installation should not begin until all other trades are finished in the area.

3.4.4: Areas to receive the re-bonded recycled rubber Sound Control Underlayment should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during, and after the installation.

3.5: Field Quality Requirements:

3.5.1: Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations in accordance with manufacturer's instructions.

3.5.2: Field Tests should be performed by an independent acoustical laboratory accredited by the U.S. Department of Commerce, National Institute of Standards and Technology under the National Voluntary Laboratory Accreditation Program for the specified test procedure.

3.5.3: The cost for all field acoustical testing, corrective work associated with the installation of the re-bonded recycled rubber Floating Floor Underlayment and flooring to meet the minimum requirements, shall be borne by the flooring contractor(s).

3.6: Cleaning

3.6.1: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.7: Protection

3.7.1: Protection: Protect installed product and finish surfaces from damage during construction

3.8: Schedules

3.8.1: Schedules: [Specify reference to applicable schedules].

END OF SECTION