

Evaluation Report

“STS™”

Roof Underlayment

Manufacturer:

MFM Building Products Corp.

525 Orange Street

Coshocton, Ohio 43812

(740) 622-2645

for

Florida Product Approval

FL 11842.5 R9

Florida Building Code 8th Edition (2023)

Method: 1 - D

Category: Roofing

Sub - Category: Underlayment

Product: “STS™”

Description: Self-Adhered Underlayment

Prepared by:

James L. Buckner, P.E., SECB

Florida Professional Engineer # 31242

Florida Evaluation ANE ID: 1916

Project Manager: Diana Galloway

Report No. 23-556-ST5-ER

(Revises 20-229-ST5-ER, FL11842.5 R8)

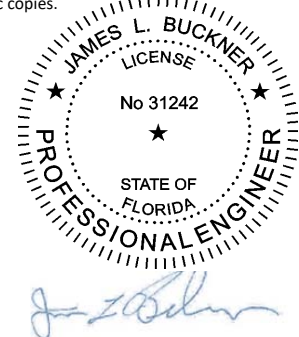
Date: 08/02/2023

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Evaluation Report

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This item has been electronically signed and sealed by James L. Buckner, P.E., on this date using a Digital Signature. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.



Date: 2023.08.02
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Manufacturer:	MFM Building Products Corp. 525 Orange Street Coshocton, Ohio 43812 (740) 622-2645 www.mfmbp.com
Product Name:	“STS™”
Product Category:	Roofing
Product Sub-Category	Underlayment
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product Description:	“ST™” is a self-adhering membrane composed of fiberglass reinforced with rubberized asphalt adhesive, with a release liner and a 3” selvedge edge.
Product Material / Standards:	Material Type: Styrene Butadiene Styrene (SBS) Material shall comply with ASTM D 1970 per Florida Building Code FBC 8th Edition (2023), Chapter 15.
Product Dimension(s)	Roll size: 38” wide x various lengths Thickness: 75-mils (nominal) Color: White
Substrate(s):	“STS™” has been evaluated for application to the following substrates (Design of support is outside the scope of this evaluation): Plywood Deck
Installation:	General Installation Instructions: “Premium HT Tile and Metal™” shall be installed in accordance with the attached installation method and in compliance with applicable code sections of the FBC 8th Edition (2023), subject to the Limitations and Conditions of Use listed in this Evaluation Report. Refer to installation details at the end of this report. Refer to manufacturer’s installation instructions as a supplemental guide for attachment.

- Performance Standards:** The product described herein has demonstrated compliance with:
- **ASTM D 1970-17a** – *Specification Self-adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roof Underlayment for Ice Dam Protection*
- Standards Equivalency:** The ASTM D 1970-01 standard version used to test the product meets the prescribed standards in ASTM D 1970-17a standard version adopted by the Florida Building Code 8th Edition (2023) for use as evaluated in this report.
- Code Compliance:** The product(s) described herein have demonstrated compliance with the performance standards listed above as referenced in the Florida Building Code 8th Edition (2023).
- Evaluation Report Scope:** This product has been evaluated in compliance with the building envelope requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001.
- Product Limitations and Conditions of Use:**
- Deck shall be in compliance with applicable building code.
 - Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment and is attached to the sheathing or rafters. Installation shall comply with FBC Section 1507.1.1.
 - Minimum slope shall be 3:12 or greater.
 - Ensure that roof system provide adequate ventilation to prevent moisture buildup in interior structure.
 - Not to be applied over EPDM rubber or TPO rubber roofing.
 - Product is acceptable for use with any roof covering system which specifically references product in the FBC approval. If not listed, an application may be submitted to the local building jurisdiction for approval based on this evaluation combined with supporting data for the roof covering and its attachment to support.
 - Do not expose product to direct sunlight for more than 90 days.
- General Limitations and Conditions of Use:**
- Scope of “Limitations and Conditions of Use” for this evaluation:
This evaluation report for “Optional Statewide Approval” contains technical documentation, specifications and installation method(s) which include “Limitations and Conditions of Use” throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under “Optional Statewide Approval”.
 - Option for application outside “Limitations and Conditions of Use”
Rule 61G20-3.005(1)(e) allows engineering analysis for “project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code”. Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.
 - This report is a building code product evaluation per FLPE rule (FAC) 61G15-36 to comply with Florida product approval rule (FAC) 61G20-3. This evaluation

report is part of the Florida Building Commission approval for the listed code related criteria. This report by James Buckner, P.E. and CBUG Engineering is not a design certification of code compliance construction submittal documentation, per FBC section 107, for any individual structure, site specific or permit design.

- Design of support system is outside the scope of this report.
- Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation.
- This evaluation report does not evaluate the use of this product for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)

Quality Assurance:

The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.0005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Keystone Certifications, Inc. (FBC Organization ID# QUA 1824).

Referenced Data:

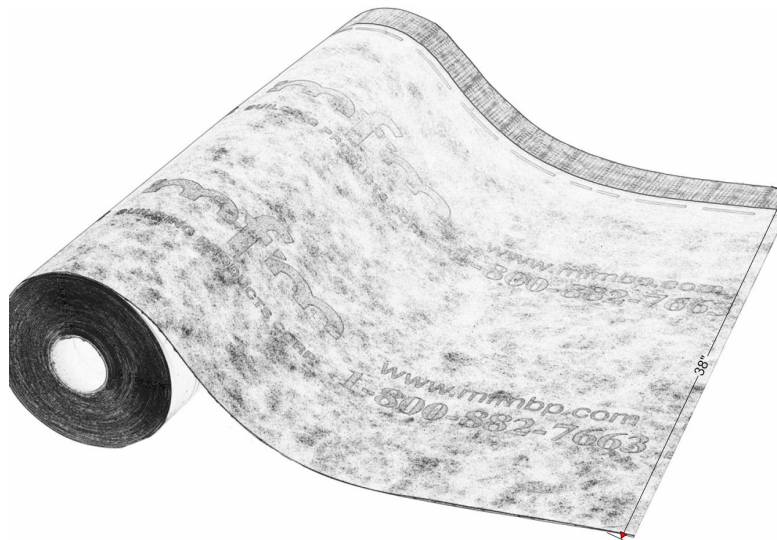
1. ASTM D 1970-01 Test
By PRI Construction Materials Technologies, Inc.
(FBC Organization ID# TST 1556)
Report No. MFM-035-02-01, Date: 10/25/10
2. Equivalency of Test Standard Certification
By James L. Buckner, P.E. @ CBUG Engineering
(FBC Organization # ANE 1916)
3. Quality Assurance
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)
MFM Building Products Corp. Licensee #335
4. Certification of Independence
By James L. Buckner, P.E. @ CBUG Engineering
(FBC Organization # ANE 1916)

STS Self-Adhered Roofing Underlayment

General Installation Instructions:

- Product to be applied directly to a clean dry surface.
- Dust, dirt, oil, grease, moisture, debris and other loose materials or contaminants must be removed prior to application.
- Check that all nails in deck are not protruding and re-fasten any loose decking panels.
- Prime Substrate with asphalt base primer.
- Cut the membrane to appropriate length.
- Peel back the release sheet, align the membrane and press into place onto roof deck.
- Install in a shingle-like pattern so that water flows over seams.
- Overlap end laps a minimum of 6". Side laps must be a minimum of 3".
- Store product in the carton in a dry place until ready to use. Keep product out of direct sunlight.
- Cover within 90 days.
- Protect membrane from damage during construction.

Product Illustration



"STS™" Underlayment