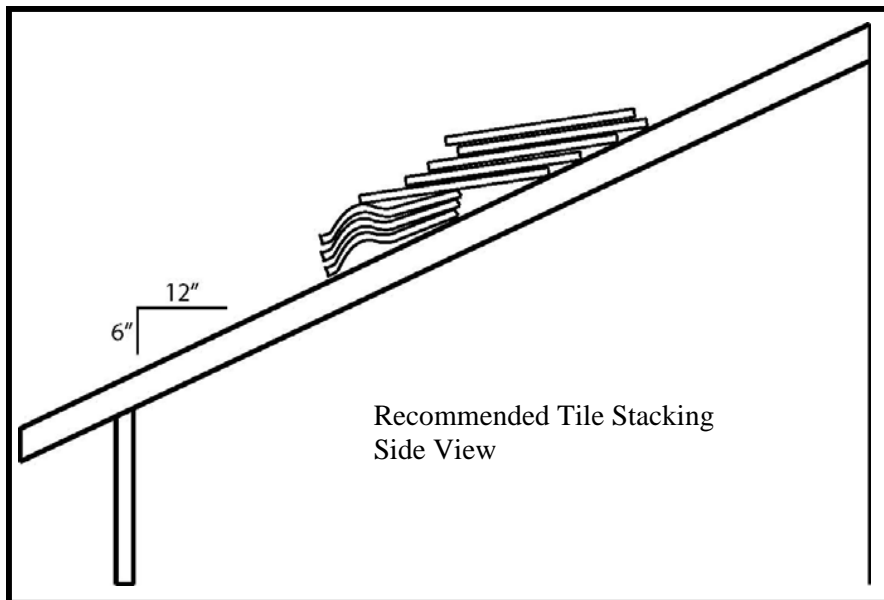
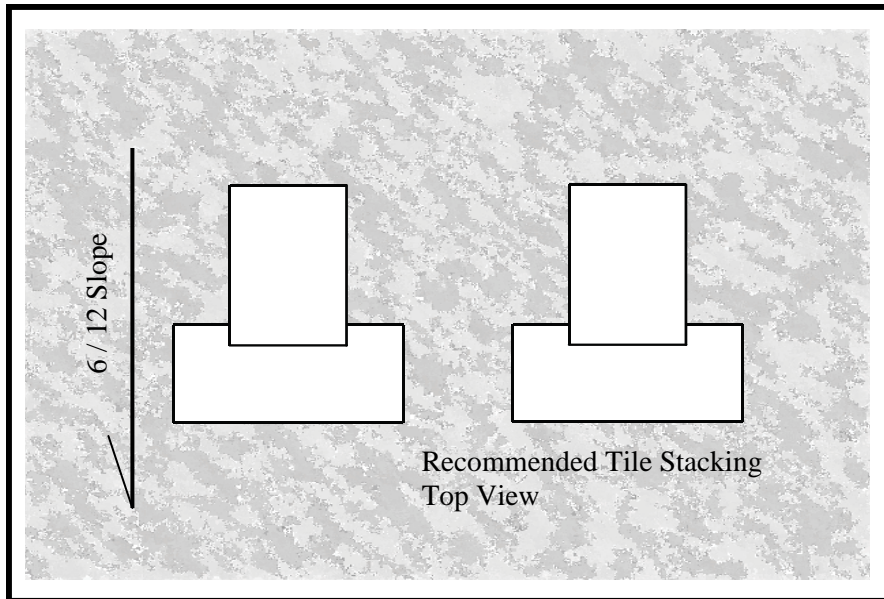


MFM Recommended tile stacking diagrams



MFM Building Products General Application Guideline For STS

STS UnderlaymentTM is intended for use as a whole-roof underlayment for tile, metal and other types of roofing. The durable outer fabric surface provides traction when working, good bonding for foam adhesives and promotes airflow underneath the roofing. The adhesive selvedge edge securely bonds overlaps forming a secure, waterproof surface. The high temperature rubberized adhesive self-seals around punctures such as nails and screws providing a layer of secondary water resistance.

Surface Preparation

- The roof deck must be clean and dry. If questionable, prime the surface with MFM Prime-A-Seal® or similar asphalt primer. A primer seals the roof deck and provides a consistent bonding surface for the STS Underlayment.
- All masonry surfaces must be primed before installing STS Underlayment.
- Do not use primer over roofing felt or rigid insulation. If extra adhesion is needed, use an activator such as MFM Spray AdhesiveTM
- STS Underlayment should not be installed over EPDM or TPO roofing membranes.

Installation

Install STS Underlayment in compliance with all local and state building codes. MFM recommends following accepted roofing practices as outlined in the NRCA Roofing and Waterproofing Manual.

- 1) STS must be installed in a shingle-like manner so that water flows over the seams.
- 2) Starting at the eave, unroll STS horizontally with the polyester side up and the selvedge edge at the top.
- 3) Remove 12 to 18 inches of the protective release liner, align STS and stick in place.
- 4) Continue removing the release liner and press STS into place.
- 5) Position the next course of STS so that it will cover the selvedge edge on the first course, align and install. Then, remove the protective release liner from the selvedge edge to bond the two courses of STS together. Roll lap firmly with a hand roller.
- 6) All edge laps must be a minimum of 3 inches or cover the selvedge edge. All end laps must be a minimum of 6 inches. All lap seams must be rolled firmly with a hand roller.

STS Underlayment Approvals

Florida Building Code FL# 11841.1
Miami Dade County NOA 07-0924.08



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7) Roll the entire STS surface with a heavyweight roller to ensure full contact with substrate or broom if slope prohibits rolling. MFM recommends using at least a 40 pound roller.

8) Cover STS within 180 days. Miami Dade County approved NOA limitations may differ from those advertised.

- Metal drip edge, valley and wall flashings should be installed under the STS membrane. For vertical surfaces, STS should extend up the wall a minimum of three inches and the exposed edge protected by metal flashing. Refer to RAS 111.

STS may also be installed vertically on roofs with a very steep pitch: Depending upon the pitch of the roof, roll STS either from the ridge or eave. All edge laps must be a minimum of 3 inches and end laps a minimum of 6 inches. All laps and seams must be rolled with a hand roller.

For Valleys:

Roll STS the entire length of the valley. Lap the field STS membrane over the valley membrane a minimum of 3 inches prior to the installation of the valley metal or self-adhering flashing.

- STS self-seals around mechanical fasteners such as nails and screws.

For re-roofing:

STS does not have to be removed for re-roofing. Make sure the original installation of membrane is clean, smooth and free from sharp edges and large holes. If recovering with a self-adhering underlayment, prime the entire surface with MFM Prime-A-Seal® and let primer fully cure before applying new underlayment. Mechanically attached underlayment may be installed directly over the old STS membrane.

Repair of STS:

Damaged STS may be repaired by using MFM Spray Adhesive™ or an equivalent adhesive to the area to be repaired 6 inches in either direction. Follow cure times on can before applying STS. Cut STS patch to size, remove release liner and press into place. Roll entire area with a hand roller to ensure full contact. The repair should be installed so water will run parallel to or over the top of all laps of the patch.

Wood decks:

STS Underlayment can be directly applied to wood decks. Although not required, it is suggested to prime wood decks surfaces with MFM Prime-A-Seal® or an equivalent prior to installation of STS Underlayment. **Please refer to applicable local building codes to assure this is acceptable.** In direct to deck applications back nailing is not required but recommended with slopes of 6:12 or greater. Nails shall be placed in selvage edge seam 1 inch minimum from edge at a minimum rate of 12 inches o.c. and covered by the next course of membrane. Please refer to local building codes for type of nail to be used and back nailing requirements prior to installation.

End laps:

All end laps of mastic to fabric must be 6 inches and prepped with MFM Spray Adhesive™ or an equivalent adhesive. Follow cure times on can before lapping of the membrane. All laps must be rolled with a hand roller.

Weather:

STS can only be applied at temperatures of at least 50 °F and rising.

Stacking tiles:

A maximum of 8 tiles per stack are allowed when loading tile onto the STS. Battens and / or counter battens must be used on slopes of 6:12 or greater to prevent tile sliding during the loading process. A 24 hour cure time is recommended before stacking tiles on STS. Refer to MFM recommended tile diagram.

Any questions in regard to proper installation practices should be directed to our Technical Department at 800-882-7663.

Always check with local building codes regarding limitations of specific applications. Local codes may supersede MFM requirements and recommendations.

WARNING:

- **Roof work can be dangerous - work carefully! Avoid falls by using safety harness, roof jacks and other proper equipment.**
- **Use caution when walking or standing on product.**
- **This product is a vapor barrier - allow for proper ventilation of the roof.**
- **Be sure roof deck will support anticipated load. Do not stack tile over 8 high on a maximum 6:12 pitch!**
- **Store material in carton in a cool, dry place - exposure to light and moisture will reduce adhesiveness.**

30-Year Limited WARRANTY

MFM Building Products Corp. (MFM) warrants materials to be free from leaks caused by defects in material or manufacturing for a period of thirty (30) years from the date of purchase when applied according to published directions. MFM will, at its option, resupply or refund the purchase price of any materials proven to be defective. Misapplication or poor workmanship is specifically excluded under the terms of this warranty. MFM shall be liable for no additional remedies, hereby expressly denying any other claims for damages, whether direct or indirect, consequential or incidental, including but not limited to property damage, personal injury to the buyer or to a third party and loss of business or profit arising from the use or inability to use the product. Any implied warranties arising under state law are limited to the duration and terms of this express warranty.