

METSHIELD® SYNTHETIC UNDERLAYMENT WITH WIP GRIP® TECHNOLOGY



MetShield Synthetic Underlayment with WIP GRIP Technology are among the safest, strongest, and best-performing roof underlayments on the market. MetShield Synthetic with WIP GRIP Technology offers superior strength and durability, dynamic steep-slope traction, water resistance, a wrinkle-free surface, and resistance to UV breakdown. The use of WIP GRIP technology offers dynamic traction and is ideal for steep slopes in a variety of weather conditions as it is also an air, vapor, and water barrier. MetShield Synthetic with WIP GRIP Technology is rated for commercial and residential applications and is an ideal roof underlayment for asphalt shingles, metal, tile, slate, and a variety of other sloped roofing materials.

FEATURES AND BENEFITS

Safer: Skid-resistant polymer coating and proprietary WIP GRIP walking surface offer dynamic steep-slope traction.

Stronger: MetShield Synthetic with WIP GRIP Technology is stronger than Type 15 or 30 felt and resistant to tearing and stretching around fasteners in high-traffic areas or during high winds.

Lighter: MetShield Synthetic with WIP GRIP Technology is lighter than Type 15 or 30 felt and easier to handle during all stages of installation.

Simpler to Apply: MetShield Synthetic with WIP GRIP Technology installs quickly, easily, and with less risk. It's lighter, stronger, and covers more area, and won't buckle, warp, or crack. Superior lay-flat properties and water resistance keep MetShield Synthetic with WIP GRIP Technology from warping, wrinkling, and cracking in cold weather.

- Roll size: 48" x 250'
- 32 pounds per roll
- 35-year warranty
- Up to 6-month UV exposure
- 16 mils thick

CODE AND STANDARDS

- ASTM E108
- ASTM D226-97
- ICC-ES AC188
- Code Compliance (CCRR-1028)

PRODUCT SPECIFICATIONS

Rolls per Pallet	36 rolls	48" x 250'
Roll per Truckload	1,296 rolls	36 pallets
UV Resistance	180 days	
Temperature Range	-40°F (-40°C) to 260°F (126°C)	
Material Composition	Polyolefin	
Tear Strength	ASTM D4533 MD/CD	35 lbs (16 kg)/32 lbs (15 kg)
Water Shower Exposure	ASTM D4869	PASS
Permeability	ASTM E96	<0.05 Perms
Mullen Burst		125 psi

Test Data is based on average results and should not be considered or interpreted as minimum or maximum values. Values are typical data and not limiting.

INSTALLATION

Before installing MetShield Synthetic with WIP GRIP Technology:

Ensure the roof deck or substrate is properly fastened, has no significant delamination, warpage, bowing or separation from the rafters, trusses, or support structures and is free of debris, clean, and smooth before the underlayment is applied. MetShield Synthetic with WIP GRIP Technology shall be installed using compatible materials and conforming to best building practices. Verify the application is compliant with applicable building codes.

METSHIELD SYNTHETIC UNDERLAYMENT WITH WIP GRIP TECHNOLOGY



MetShield Synthetic with WIP GRIP Technology is not designed or intended to be the final or primary roof. Consult with your local Drexel Metals sales representative for further information. As with all roofing materials, always observe safe roofing practices (OSHA) and local building and safety codes. Use caution when walking or standing on MetShield Synthetic with WIP GRIP Technology. Moisture, dust, snow, ice, debris, and other jobsite conditions may change the coefficient of friction of MetShield Synthetic with WIP GRIP Technology. Failure to use proper safety equipment and footwear can result in serious injury or death.

Installation General: Fastening methods and materials should conform to best building practices and local jobsite conditions. Verify final application to be compliant with the requirements of applicable building codes. Verify compatibility according to geographical region, structure type, and roof specification with applicable building codes and/or by review of a building professional. Install MetShield Synthetic with WIP GRIP Technology print-side up, horizontal (parallel) to the eave, with minimum 4-inch (102 mm) horizontal laps and 6-inch (152mm) vertical laps. Overlaps shall run with the flow of water in a shingling fashion.

INSTALLATION GUIDELINES AND 35-YEAR LIMITED WARRANTY

- Minimum finished roof slope is 2:12 (17%) for MetShield Synthetic with WIP GRIP Technology. In the cases where the roof pitch is less than 2:12, use MetShield High Temp Peel and Stick by Drexel Metals. For roof slopes greater than 2:12 (17%) and less than 4:12 (33%), laps shall be increased to 25 inches (635 mm).
- In jurisdictions where the use of MetShield Synthetic with WIP GRIP Technology in valley applications is permitted by local building codes, Drexel Metals recommends that MetShield Synthetic with WIP GRIP Technology be applied as a valley liner in accordance with applicable building codes and industry standards/guidelines. Woven or closed-cut valleys are not recommended.
- Extend MetShield Synthetic with WIP GRIP Technology one inch past gable/rake edge, turn down over edge, fasten approximately 4 inches on center, and cover with code-compliant flashing prior to the installation of the final roof covering.

Short-Term Exposure: For short-term exposure (less than 24 hours before the primary roof installation is completed) without exposure to precipitation or high wind (any signs of underlayment uplifting), corrosive-resistant fasteners may be used to nominally attach the underlayment only as necessary to prevent distortion around fasteners in high traffic areas. The final roof covering will permanently affix the underlayment in place.

Two to 29-Day Exposure: Applications that are not immediately covered (within 24 hours) by the primary roof covering or are subject to basic wind speeds (fastest mile) in excess of 90 miles per hour (145 km/hour, Uniform Building Code) or basic wind speeds (3-second gust) in excess of 110 miles per hour (177 km/hour, International Residential Code and International Building Code) shall be attached using corrosive resistant mechanical fasteners, spaced 8 inches (203 mm) on center along both horizontal and vertical laps and 24 inches (610 mm) on center along the center of the roll in the field of the roof.

Thirty to 180-Day Exposure: For underlayment applications that are not covered by the primary roof covering within 30 days and/or for applications in high wind (any signs of underlayment uplifting) zones, lap widths shall be doubled and fastening frequency increased to 4 inches (10.2 cm) on center for horizontal and vertical laps and 24 inches (61 cm) on center along the center of the roll. Additionally, it is recommended that a caulk or sealant material (1) be applied between laps before fastening to prevent moisture ingress in areas of high wind. For a primary roof covering requiring attachment through a batten system, the underlayment need only be preliminarily attached pending attachment of battens or counter battens. Battens or counter battens shall not be secured directly over raised fasteners, including plastic capped roofing nails.

Repairs: Repair damage to the underlayment with caulk or sealant, material maintaining a water-tight seal around the damaged area and proper overlaps to run with the flow of water in a shingling fashion. Ensure any incorrectly installed fasteners are caulked and/or sealed to prevent possible moisture ingress.

PRECAUTIONS

- MetShield Synthetic with WIP GRIP Technology can be exposed to ultraviolet conditions for up to 6 months.
- Severe weather and/or local jobsite conditions may require a shorter exposure period. Please contact Drexel Metals for further information.
- MetShield Synthetic with WIP GRIP Technology is not designed to function as the primary roof covering and is intended to function as a secondary water-shedding layer under most steep-sloped roofing materials.
- Verify final application to be compliant with applicable building codes.

A 35-year limited warranty applies to Drexel Metals. No other warranty, express or implied, is given as to the merchantability, fitness for particular purpose, or otherwise for applications outside the scope of these installation guidelines and the published 35-year limited warranty.

CORPORATE HEADQUARTERS: 1234 GARDINER LANE, LOUISVILLE, KY 40213 | 888-321-9630 TOLL-FREE | 502-690-6174 FAX | DREXELMETALS.COM

©2020 Drexel Metals, Inc. All rights reserved. MetShield® is a registered trademark of Drexel Metals, Inc. DensDeck® is a registered trademark of Georgia-Pacific. ENERGY STAR name and logo are registered U.S. marks and are owned by the U.S. government. CAV-GRIP is a trademark of Carlisle Coatings & Waterproofing Incorporated. Warranty statements mentioned are outlines: complete Limited Warranty information is available on request. No other warranty expressed or implied is applicable.