

## FEATURES & BENEFITS TO THE ROOFING CONTRACTOR:

- ★ **Cool Gray:** Unique gray high-traction top layer which reduces heat and provides a cooler working surface.
- ★ **Stronger:** STARWRAP™ DIAMOND is 35 times stronger than 30# felt, and 8X lighter than 30# felt, it provides tough, durable weather & tear resistance.
- ★ **Skid-Resistant:** Bottom surface has an anti-slip coating, enhances the skid-resistant properties of the synthetic roofing underlayment, helps protect against costly slips and falls.
- ★ **Easy Handling:** Lighter weight rolls for easy Handling, it makes STARWRAP™ DIAMOND easier to handle during all stages of installation.
- ★ **Simple to Apply:** STARWRAP™ DIAMOND installs quickly, easily and has 17% more coverage per course than a standard roll of 30# felt.
- ★ **Reliable:** Unlike felt, STARWRAP™ DIAMOND is highly water- repellent, keeping STARWRAP™ DIAMOND from warping, wrinkling and cracking in cold weather.
- ★ **100% Recyclable:** STARWRAP™ DIAMOND is 100% inorganic and will not rot or mold, considered a Green Building Product.
- ★ **Price Competitive** With 30# Felt ask your Distributor.







# SYNTHETIC ROOFING UNDERLAYMENT

MEETS ASTM D4869-D226-CAN/CSA A123.3



## INSTALLATION

Please follow all local building codes applicable to your job site and verify compatibility according to geographical region, structure type and roof specification with applicable building codes and/or by review of a building professional. The Installation Guidelines shall be available at the jobsite during installation.

**Coverage:** Approx. 950 sq. ft. per roll or less depending upon overlap and roof design.

**Use:** Under asphalt shingles, tile or metal roofs.

**Preparation:** The deck surface must be dry and free of dust, dirt, loose nails, debris and other protrusions. ensure the deck has no voids, damaged or unsupported areas. Damaged sheathing must be replaced.

### ★ APPLICATION:

**STARWRAP™ DIAMOND** synthetic roofing underlayment must be installed in accordance with all applicable building codes, primary roofing materials' manufacturer's installation and technical manuals, and this installation guide. Furthermore, STARWRAP™ DIAMOND synthetic roofing underlayment must be covered within 180 days of installation.

For proper installation of STARWRAP™ DIAMOND synthetic roofing underlayment, please note the following guidelines:

1. Because the underlayment is regarded as a vapor barrier, STARWRAP™ DIAMOND synthetic roofing underlayment must be installed over properly ventilated spaces.
2. STARWRAP™ DIAMOND products are intended for use on sloped roofs with 2:12 pitch or higher. It is not recommended for slopes less than 2:12.
3. When installing STARWRAP™ DIAMOND, it must be unrolled and spread out horizontally to the eave. STARWRAP™ DIAMOND is installed horizontal (parallel) to the eave with the printed side up for sloped roofs with 2:12 pitch or higher.
4. Each layer should be lapped 4" horizontally and 6" vertically at a minimum. The laps should be anchored about 1" inward from the edge. Overlaps shall run with the flow of water in a shingling fashion.
5. STARWRAP™ DIAMOND products are intended for use on sloped roofs with 2:12 pitch or higher. For low slopes, it recommends overlapping of 50% plus 1". However, please keep in mind that STARWRAP™ DIAMOND synthetic roofing underlayment is not recommended for slopes less than 2:12.
6. Be sure to adhere to all building codes and regulations in the jurisdiction where STARWRAP™ DIAMOND synthetic roofing underlayment is being installed.

**FASTENERS:** Fasteners shall either be corrosive-resistant roofing nails with 1" minimum length, roofing nails with 1" diameter plastic or metal caps or 3/8" head x 1" minimum length leg roofing nails. Staples may be used to install when it will be covered with shingles the same day or prior to any precipitation.

**EXTENDED EXPOSURE:** In coastal areas or areas where there is prolonged exposure or high winds, it recommends doubling the recommended lap widths. In addition, compatible sealants can be used to seal the laps or an exterior grade peel and stick tape can be applied to seal the overlaps.

**ANCHORING:** Anchoring nails shall be 90° to the roof deck and shall not be under or over driven, for the seams and joints that require a sealant or adhesive, use a low solvent plastic roofing cement that meets ASTM D-4586 Type 1 or Federal Spec SS-153 Type 1. Make sure to consult manufacturer's installation instructions.

### ★ REPAIRS

Repair all tears or damage to the underlayment with caulk or sealant material to inhibit water infiltration around the damaged area and maintain proper overlaps to run with the expected direction of the water flow in a shingling fashion. To inhibit moisture infiltration, make sure any incorrectly applied fasteners are caulked or sealed.

### ★ PRECAUTIONS

STARWRAP™ DIAMOND is not designed to replace the primary roof covering material, or for indefinite outdoor exposure, and it is recommended that installation of the final roof covering take place within 6 months.

WE DO NOT MAKE ANY WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ANY APPLICATIONS OUTSIDE THE SCOPE OF THESE INSTALLATION GUIDELINES.

### ★ CAUTION:

ALWAYS OBSERVE SAFE ROOFING PRACTICES & FOLLOW ALL WORK-PLACE SAFTY REGULATIONS (OSHA) WHEN INSTALLING STARWRAP™ DIAMOND UNDERLAYMENT. USE CAUTION WHEN WALKING OR STANDING ON STARWRAP™ DIAMOND AND ON SLOPED ROOF DECKS. ROOF UNDERLAYMENTS MAY BE SLIPPERY WHEN WET OR COVERED WITH DUST, FROST, ICE, SNOW, MUD, ETC. STATE AND FEDERAL SAFETY REGULATIONS SHOULD BE FOLLOWED AND AN APPROVED FALL PROTECTION SYSTEM UTILIZED WHEN INSTALLING STARWRAP™ DIAMOND UNDERLAYMENT. APPROPRIATE SAFETY GEAR, INCLUDING PROPER FOOTWEAR, SHOULD ALSO BE USED. FAILURE TO FOLLOW SAFE ROOFING PRACTICES AND TO USE PROPER SAFETY GEAR AND FOOTWEAR MAY RESULT IN SERIOUS INJURY.

### TECHNICAL DATA

SPECIFICATIONS	STARWRAP™ DIAMOND	30# Felt
LENGTH PER ROLL	250' / 76.20 m	72' / 22 m
WIDTH PER ROLL	48" / 1.22 m	36" / 0.92 m
WEIGHT PER ROLL	30 lbs / 13.5 kg	60 lbs (27.2 kg)
ROLL SIZE	10 sq / 93 m <sup>2</sup>	2.2 sq / 20 m <sup>2</sup>
ROLLS PER PALLET	49 rolls	30 rolls
PALLET WEIGHT	1470 lbs / 662 kg	1440 lbs / 653 kg

PROPERTY	STANDARD	STARWRAP™ DIAMOND	30# Felt
Permeability	ASTM E96	0.05 perms	1.75 perms
Water Transmission	ASTM D4869	PASS	PASS
Tear Strength (MD/CD)	ASTM D4533	38 lbs / 30 lbs	4 lbs / 2 lbs
Tensile Strength (MD/CD)	ASTM D751	108 lbs / 90 lbs	70 lbs / 38 lbs
Burst Strength	ASTM D751	210 psi (1440 kPa)	62 psi (430 kPa)
Elongation ASTM	ASTM D751	20%	3%
Weight per Square	ASTM D5261	3 lbs (1.35 kg)	28 lbs (12.7 kg)
Nominal Thickness	ASTM D1777	11 mils (0.28mm)	60 mils (1.5 mm)
Temperature Range	-	-70 °F to 300 °F (-55 °C to 150 °C)	14°F to 212°F (-10°C to 100°C)

Values are typical data and not limiting specifications. All values ± 7 %.

AC188  
CCRR-0432  
FL 19321



## SYNTHETIC ROOFING UNDERLAYMENT

MEETS ASTM D4869-D226-CAN/CSA A123.3



STARWRAP™ DIAMOND is a highly engineered, mechanically attached, coated woven synthetic roofing underlayment for sloped roofs. It is specifically manufactured to replace 30# felt.

**BUILDING THE BETTER FUTURE**

For more information about our products, visit [www.starwrapinc.com](http://www.starwrapinc.com)

Distributed by: