



Raptor Synthetic Underlayment™ Installation Instructions

Warning: WE DO NOT WARRANT INSTALLED RAPTOR TO BE LEAKPROOF, anymore than face-nailed and unflashed EPDM or TPO would be considered leakproof. Raptor is only the first step in the roofing process, and by itself should not be considered waterproofing. Water will not pass through intact Raptor, but may pass around staples and incorrectly applied roofing nails and cap nails. Water can blow under seam laps, through slits cut in Raptor, and will pass around the unflashed edges of projections and roof/wall interfaces. When using Raptor for reroofing, tarps should be used over unshingled areas to protect the building from water infiltration.

Raptor is NOT a substitute for fully-adhered ice dam protection products, but may be used as underlayment for asphalt shingle and metal steep-sloped roofs, and in any application calling for #15 or #30 asphalt saturated felt.

Raptor should be installed with the black surface (printed surface) facing up. Horizontal seams should be lapped four inches and vertical side seams should be lapped six inches. Fasteners should be concentrated in the horizontal seams. To prevent wind blown rain from penetrating the vertical seams we recommend taping those seams with a quality, six inch flashing tape. There will only be a few vertical seams on every roof, and this simple trick can protect those laps until the shingles are applied.

Proper Placement of Metal Drip Edge

Raptor should lap over the drip cap at the bottom (eave edge) of the roof. If the framers install the Raptor before the roofers arrive, they should keep the fasteners at least three inches from the bottom of the roof, so that the roofers can properly slip the drip cap under the Raptor.

Drip cap should lap over the raptor along the eaves. This will prevent windblown rain from getting under the underlayment, and will help prevent wind damage to the underlayment before the shingles are installed. If ice dam protection is installed along the eaves, first install the ice dam protection, preferably folding the ice dam protection down onto the fascia, covering any cracks between the roof deck and the fascia. Install drip cap over the ice dam material. Place a 4 or 6 inch roll of flashing tape over the drip cap and up the roof onto the ice dam material, Lap Raptor at least 4 inches over the top edge of the ice dam material.

Fastening Raptor to the Deck

1. The correct location for fasteners is clearly printed on the surface of the Raptor Synthetic Underlayment™. For normal application, place a nail in each of the printed O's and ignore the printed X's.

2. Fasteners for Raptor should be concentrated in the horizontal laps. When using regular roofing nails or large headed cap nails, fasteners should be spaced every 12 inches in the seams and staggered every 24 inches along two rows in the field of the underlayment.

3. Regular roofing nails with a 3/8" head provide the best protection against water infiltration, and are our preferred fastener for most Raptor applications. One inch cap nails may be used when required by code or if unusually high winds are forecast, but are typically unnecessary.

7. Raptor may be installed routinely on slopes over 4/12. Extra fasteners may be used along the top of Raptor for slopes over 8/12 to provide additional security for walking. For slopes between 2/12 to 4/12, Raptor must be double-layered. Begin by cutting a roll of Raptor longwise. Attach this half roll along the eaves, then install a full roll directly over the half roll. Continue up the roof by lapping each new roll halfway over the preceding roll, resulting in a double layer of Raptor covering the whole roof.

Precaution, Safety, Storage and Handling

- Always wear fall protection when working on a roof deck.
- Do not install underlayment directly on old roof cladding.
- Read all product labels and material safety data sheets (MSDS) for proper handling and disposal
- Deliver all materials in manufacturer's unopened packages.
- Palletized material should be stacked only two high.
- Store all materials under cover.
- Testing Partner QAI Laboratories

4. Raptor may be left exposed for up to six months using regular roofing nails or cap nails.

5. For extended periods of time or steep slopes twice as many nails may be installed by placing fasteners in both the O's and the X's printed on the Raptor.

6. Staples should only be used if the Raptor will be covered with shingles the same day, or before any chance of rain. Many types of staples will allow water to penetrate Raptor around the shanks of the staples. If you install Raptor with staples, you should assume some water will infiltrate past the staples and get under the Raptor and into the building. Place most of the staples along the horizontal seams where there will be two layers of Raptor. Place only a few staples in the field of Raptor.



Recommended Stapling Pattern For Raptor



Nailing Pattern For Raptor In Normal Conditions

Specification

Width Per roll	: 48" / 122cms
Length per roll	: 250' / 76.2 m
Weight per roll	: 25 lbs
Roll Size	: 10sq / 93 m2
Rolls per pallet	: 56
Pallet Weight (56 rolls)	: 1400 lbs

Features & Benefits

- Unique water-shedding and special weaving technologies provide extraordinary, industry-leading roof top walkability, wet or dry. Raptor provides legendary traction. Professional Roofers can tell the difference!
- Suitable for all asphalt shingle and metal steep-sloped roofs. A superior substitute for any application calling for asphalt saturated underlayment (#15 or #30 felt)
- Deck side slip-resistant coating
- Slip resistant fiber grip technology
- Strong and durable
- Impervious to mold
- Lays flat and stays flat (will not buckle when wet)
- Will not tear, even in high wind conditions
- Secondary water barrier, better roof defense
- Woven and non-woven technologies combine to create a strong, safe roofing underlayment.
- Available in 4', 5' and 10' widths for faster application and less lap waste.



Manufactured By :

GULNAR PLASTICS PVT LTD

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If it doesn't say Raptor on the roll, it's not Raptor. Raptor has legendary traction. Don't settle for imitations!

Application Tips - www.RaptorUnderlayment.com