

RAPTORTM

SYNTHETIC UNDERLAYMENT

2020 Catalog of Products

For more information visit www.RaptorUnderlayment.com



RAPTOR SYNTHETIC UNDERLAYMENT

Legendary Traction

The world's safest and most innovative roofing underlayment

Roofer Friendly

Raptor was designed specifically for roofing contractors. It was designed to keep roofer's on the roof and has incredible traction, wet or dry.

Regular roofing nails and cap nails provide the best protection from water infiltration, and are the preferred fastener for Raptor. Staples can be used, but only if you plan to roof the same day. **Staples will leak when exposed to extended periods of rain.** Fasteners should be concentrated in the horizontal laps, and placed sparingly in the field.

Raptor is black by design. The dark surface will dry off quickly and show chalk lines clearly, yet Raptor's low mass keeps the surface much cooler than asphalt saturated felt.

Raptor weighs only 25 pounds for a 10 square roll. Easier to carry and fewer trips up the ladder. Available in 18", 4', 5' and 10' widths, Raptor installs much faster and uses fewer fasteners than standard felt.

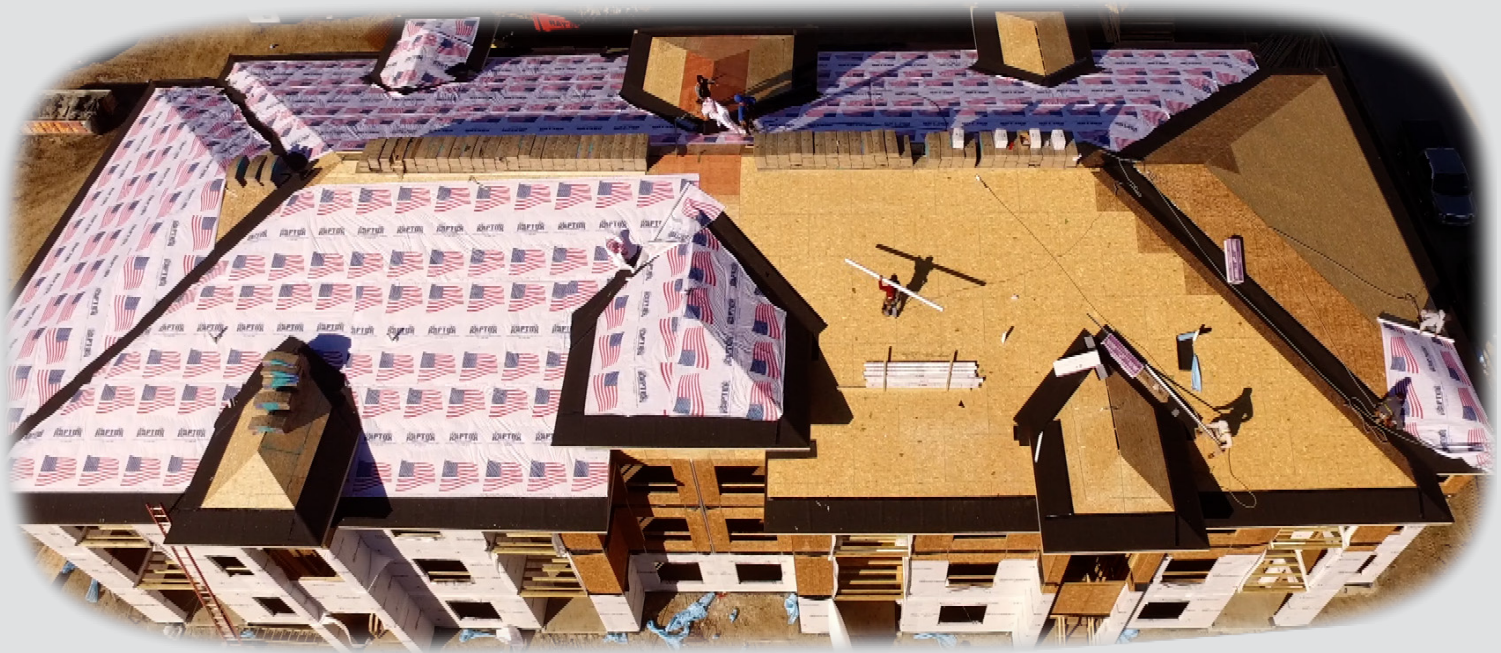


For more information visit www.RaptorUnderlayment.com

RAPTOR SYNTHETIC UNDERLAYMENT

Why would you spend three hours to do a one-hour job?

Raptor is available in 4', 5' or 10' widths. 10' Raptor installs in one-third the time, uses one-third the fasteners, and has far less lap-waste than 36" or 42" underlayment



Builder Friendly

Because of its durability and resistance to tearing, Raptor can be left exposed for up to 6 months. That means no more torn or missing felt to replace before the shingles can be installed.

Raptor lays flat and stays flat. No more wrinkles telegraphing through today's lighter-weight shingles.

Raptor is a suitable replacement for #15 and #30 felt in any roofing application.

Don't let bad things happen to your good roof!



Raptor won't blow off, and won't leave the roof exposed.



For more information visit www.RaptorUnderlayment.com

RAPTOR SYNTHETIC UNDERLAYMENT

Branding Matters

You're proud of your work.
Let people know who you are!
With Raptor, you can choose your own
custom color and logo.



- **Technical Information:**

ICC ESR #3624 Find Information Here www.icc-es.org/Reports/pdf_files/ESR-3624.pdf

Meets or Exceeds ASTM D226, D4869, D1970, D146

- Class A Fire Rated with Asphalt Shingles ASTM E108-11
- Perm rating .061 ASTM E 96
- TDI Approval ESR 3624
- Weight 25# Per 10 square roll
- Sizes-4' x 250', 5' x 200', 10'x100'
- 18" x 500' utility roll for temporary ridge covering, and filler applications
- A #15 or #30 felt substitute for asphalt shingle or metal roofs



Features:

- Non-woven surface layer provides incredible traction, wet or dry.
- Lays flat and stays flat - will not buckle when wet
- UV Exposure allows Raptor to be left exposed for six months, even with regular roofing nails
- 25 year limited material warranty
- Will not tear easily, reducing blowoffs and allowing fewer fasteners
- Preferred fasteners are regular roofing nails, coil or hand driven, and cap nails.
- Staples may be used if no threat of rain, or shingles will be installed same day.
- Raptor is suitable for any pitch greater than 4/12.
- For 2/12 to 4/12 special application techniques are needed to install Raptor

For more information visit www.RaptorUnderlayment.com

GRAY HAWK SYNTHETIC UNDERLAYMENT

Features:

- Non-woven surface layer provides incredible traction, wet or dry.
- Lays flat and stays flat - will not buckle when wet
- UV Exposure allows Gray Hawk to be left exposed for 30 days, even with regular roofing nails
- 10 year limited material warranty
- Will not tear easily, reducing blowoffs and allowing fewer fasteners
- Preferred fasteners are regular roofing nails, coil or hand driven, and cap nails.
- Staples may be used if no threat of rain, or shingles will be installed same day.
- Gray Hawk is suitable for any pitch greater than 4/12.
- For 2/12 to 4/12 special application techniques are needed to install Gray Hawk



Gray Hawk is available in 4' or 5' and 10' widths. With Gray Hawk, you can choose your own custom color and logo.

• Technical Information:

Thickness-6 mills

- Unrollability-Pass AC 188
- Pliability-Pass ASTM D 226
- Tensile Strength-MD: 75 lbf/ CD: 40 lbf ASTM D 1970
- Tear Strength-MD: 30 lbf/ CD: 25 lbf ASTM D 4533
- Ultraviolet Exposure-Pass AC48/AC188
- Accelerated Aging-Pass AC48/AC188
- Liquid Water Transmission-Pass ASTM D4869
- Recommended exposure limit 90 Days
- ICC ESR #3308



For more information visit www.RaptorUnderlayment.com

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 where they will penetrate two layers of product. To prevent windblown 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.



Features & Benefits

Unique water-shedding and special weaving technologies provide extraordinary walking traction, 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
- Strong and durable
- Impervious to mold
- Lays flat and stays flat (will not buckle when wet)
- Will not tear easily, even in high wind conditions
- Secondary water barrier
- Woven and non-woven technologies combine to create a strong, safe roofing underlayment.
- Available in 18", 4', 5' and 10' widths for faster application, fewer fasteners, and less lap waste.

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 rake. This will prevent windblown rain from getting under Raptor, and will help prevent wind damage to Raptor before the shingles are installed. If ice dam protection will be installed along the eaves, first lap a 4 or 6 inch piece of flashing tape from the deck to the fascia, covering any cracks. Install drip cap over the flashing tape. Begin your ice dam protection by placing the leak barrier over the top of the drip cap, and extend up the roof. Raptor should extend at least 4 inches over the top edge of the leak barrier.

Raptor Synthetic Underlayment® Installation Instructions

Fastening Raptor to the Deck

1. The correct location for fasteners is clearly printed on the surface of 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,** where they will pass through two layers of material. When using regular roofing nails or large-head 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.
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-sloped roofs, twice as many nails may be installed by placing fasteners in both the O's and the X's printed on Raptor.
6. **Staples should only be used if 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.
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

- **Raptor is the safest underlayment ever developed, but it is not a substitute for safe roofing practices.**
- Always wear fall protection when working on a roof.
- Read all product labels and material safety data sheets (MSDS) for proper handling and disposal
- Store all materials under cover.
- Testing Partner QAI Laboratories



Stapling Pattern For Raptor
Use as few staples as possible. Raptor installed with staples must be covered with shingles the same day.



Nailing Pattern For Raptor In Normal Conditions
Using Regular Roofing Nails or Cap Nails

Specification

Roll Sizes:

18" x 500 Ft
5 Ft x 200 Ft

4 Ft x 250 Ft
10 Ft x 100 Ft

Weight per roll	25 lbs
Roll Size (4', 5', & 10')	1000 sq ft
Roll Size (18")	750 sq ft
Rolls per pallet (4' & 5')	56
Rolls per pallet (18" & 10')	60
Pallet Weight (56 rolls)	1400 lbs

Manufactured By :
GULNAR PLASTICS PVT LTD
Survey No. 18/P, Kharadpada,
Silvassa D. & N. H.
www.gulnarplastics.com
info@gulnarplastics.com



Gray Hawk Synthetic Underlayment Installation Instructions

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

Gray Hawk 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.

Gray Hawk should be installed with the gray 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 where they will penetrate two layers of product. To prevent windblown 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.



Features & Benefits

Unique water-shedding and special weaving technologies provide extraordinary walking traction, wet or dry. Gray Hawk 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
- Strong and durable
- Impervious to mold
- Lays flat and stays flat (will not buckle when wet)
- Will not tear easily, even in high wind conditions
- Secondary water barrier
- Woven and non-woven technologies combine to create a strong, safe roofing underlayment.
- Available in 4' and 5' widths for faster application, fewer fasteners, and less lap waste.

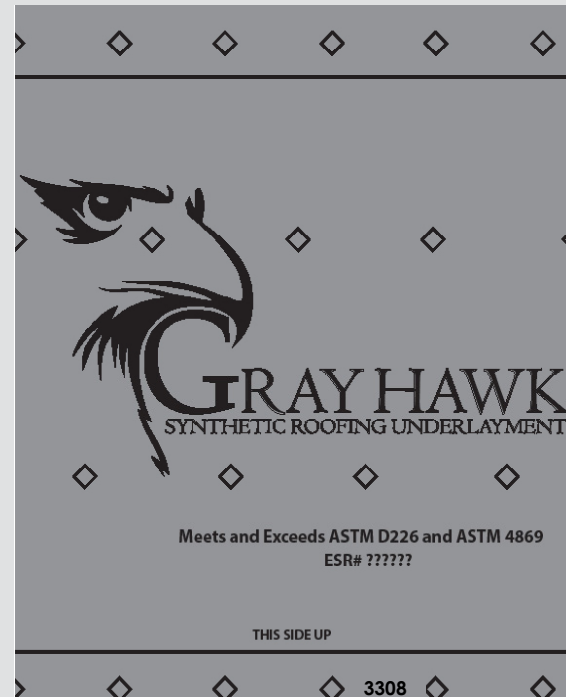
Proper Placement of Metal Drip Edge

Gray Hawk should lap over the drip cap at the bottom (eave edge) of the roof. If the framers install the Gray Hawk 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 Gray Hawk. Drip cap should lap over the Gray Hawk along the eaves. This will prevent windblown rain from getting under Gray Hawk, and will help prevent wind damage to Gray Hawk before the shingles are installed. If ice dam protection will be installed along the eaves, first lap a 4 or 6 inch piece of flashing tape from the deck to the fascia, covering any cracks. Install drip cap over the flashing tape. Begin your ice dam protection by placing the leak barrier over the top of the drip cap, and extend up the roof. Gray Hawk should extend at least 4 inches over the top edge of the leak barrier.

Gray Hawk Synthetic Underlayment Installation Instructions

Fastening Gray Hawk to the Deck

- 1.** The correct location for fasteners is clearly printed on the surface of Gray Hawk Synthetic Underlayment. For normal application, place a nail in every other of the printed diamonds.
- 2.** **Fasteners for Gray Hawk should be concentrated in the horizontal laps**, where they will pass through two layers of material. When using regular roofing nails or large-head cap nails, fasteners should be spaced every 9 inches in the seams and staggered every 18 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 Gray Hawk applications. One inch cap nails may be used when required by code or if unusually high winds are forecast, but are typically unnecessary.
- 4.** Gray Hawk may be left exposed for up to 90 days using regular roofing nails or cap nails.
- 5.** For extended periods of time or steep-sloped roofs, twice as many nails may be installed by placing fasteners in every other of the printed diamonds printed on Gray Hawk.
- 6.** **Staples should only be used if Gray Hawk will be covered with shingles the same day, or before any chance of rain.** Many types of staples will allow water to penetrate Gray Hawk around the shanks of the staples. If you install Gray Hawk with staples, **you should assume some water will infiltrate past the staples** and get under the Gray Hawk and into the building. Place most of the staples along the horizontal seams where there will be two layers of Gray Hawk. Place only a few staples in the field of Gray Hawk.
- 7.** Gray Hawk may be installed routinely on slopes over 4/12. Extra fasteners may be used along the top of Gray Hawk for slopes over 8/12 to provide additional security for walking. For slopes between 2/12 to 4/12, Gray Hawk must be double-layered. Begin by cutting a roll of Gray Hawk 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 Gray Hawk covering the whole roof. For installation under 4/12 vertical seams should be taped or lapped at least 24", and should be staggered at least 48".



Nailing Pattern For Gray Hawk In Normal Conditions Using Regular Roofing Nails or Cap Nails

Specifications

Roll Size	48" x 250	60" x 200
Weight per roll	22 lbs	22 lbs
Roll Size	10 sq	10 sq
Rolls per pallet	56	64



Precaution, Safety, Storage and Handling

- **Gray Hawk Synthetic Underlayment is not a substitute for safe roofing practices.**
- Always wear fall protection when working on a roof.
- Read all product labels and material safety data sheets (MSDS) for proper handling and disposal
- Store all materials under cover.
- Testing Partner QAI Laboratories