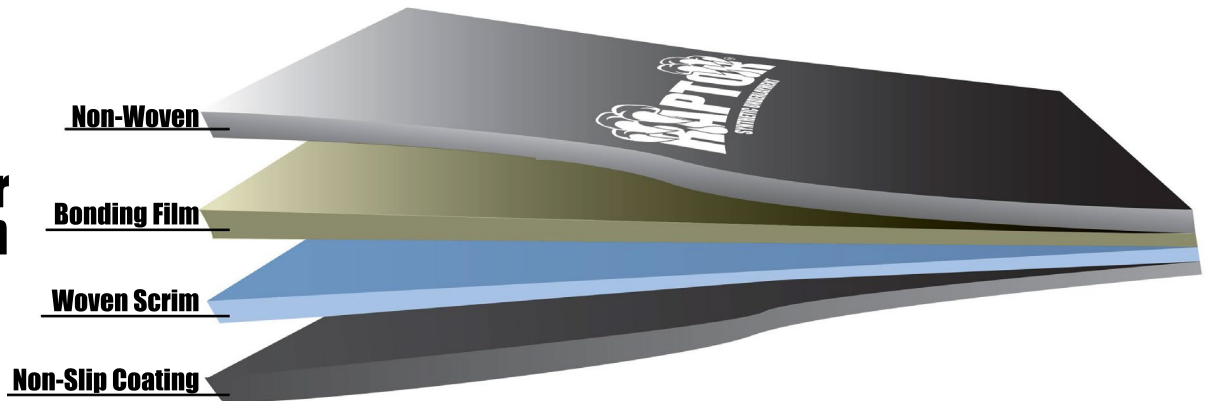
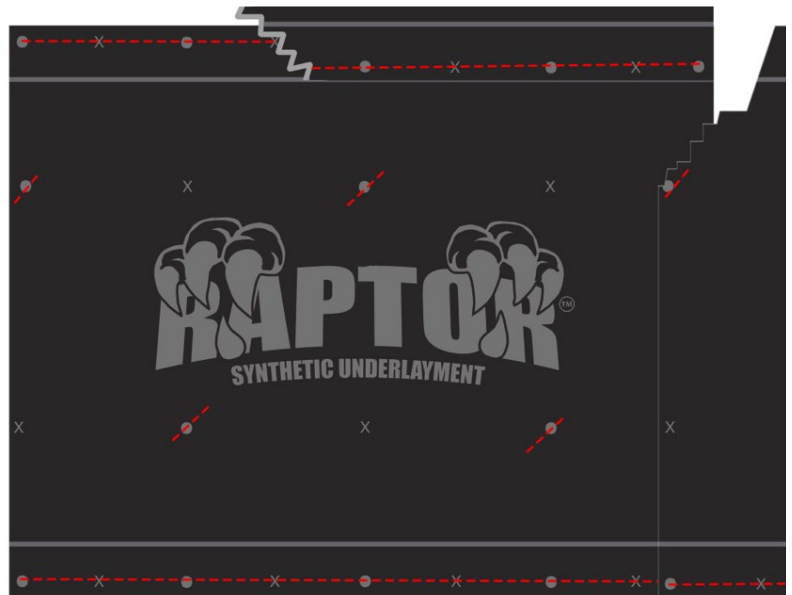


Raptor 4 Layer Construction



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



Recommended Stapling Pattern For Raptor
Use as few staples as possible and cover same
day with shingles.

For all fastener applications, place most of the fasteners in the horizontal seams, where they will penetrate two layers of Raptor.

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
- 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

Why wait?

Someday, all underlayment will be like Raptor



Imagine a roofing underlayment you can install with regular roofing nails. That won't tear easily or blow off the roof. That lies flat and stays flat, with a black surface that dries off quickly and shows chalk lines clearly. An underlayment with incredible traction, wet or dry.

Now imagine all of this for less than the cost of #30 asphalt saturated felt.



Imagine Raptor Synthetic Roofing Underlayment®

Raptor is a unique combination of woven polypropylene, binders, tackifiers, and non-woven polymers. Lightweight but tough, Raptor has incredible traction, wet or dry and has an aggressive tear strength and will not blow off the roof.

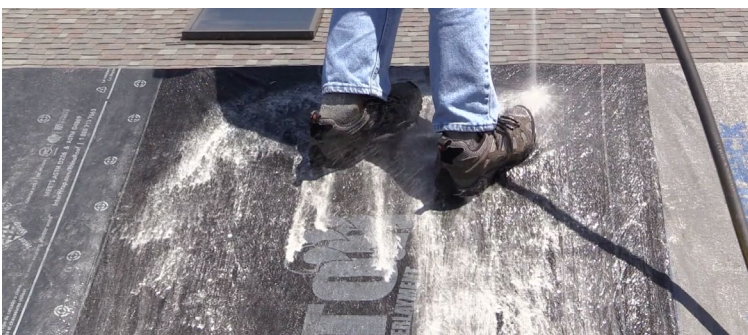
Rofer Friendly

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.



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.

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.

Home Owner Friendly

Raptor can act as a secondary leak barrier in the event of a blow off.

Raptor's extreme toughness and stability will last for the life of the roof, with an aggressive tear strength that will offer solid coverage if the roof becomes exposed.