



Raptor Synthetic Underlayment® Marketing Order Form



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 flashing tape. There will only be a few vertical seams on every roll, 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 rakes. This will prevent windblown rain from getting under the underlayment, and will help prevent wind damage to the underlayment before the shingles are installed.

Fastening Raptor to the Deck

- 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.

- 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.

- Roofing nails with a 3/8" head or 1" cap nails provide the best protection against water infiltration, and are our preferred fasteners for most Raptor applications. One-inch cap nails may be required by code in coastal or high wind areas.

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

- Staples should only be used if covered with shingles the same day. Staples will leak if left exposed to long periods of rain.

- A continuous line of staples should be placed along the seams, with only a few staples in the field. Raptor's superior tear strength allows you to install Raptor using far fewer staples than you may have used with organic felt.



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

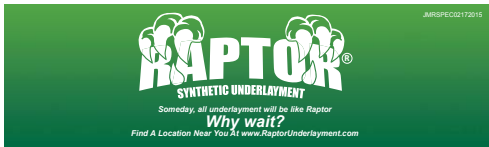


Nailing Pattern For Raptor In Normal Conditions Using Regular Roofing Nails or Cap Nails



The Raptor knife provides an excellent tool when cutting Raptor Synthetic Underlayment®. Regular straight blade knives may cut into and damage the underlying layers.

Item #JMINS10082014 Installation Instruction



Technical Information:

ICC ESR #3624 Find information here www.icc-es.org/Raptors.pdf, Res ESR 3624.pdf
Meets or Exceeds ASTM D2206, D4969, D1970, D146
Class A Fire Rated with Asphalt Shingles ASTM E108-11
Perm rating .061 ASTM E 96
Weight 27# Per 10 square roll
Sizes-4' x 250', 5' x 200', 10'x100'
18'x500' utility roll for temporary ridge covering

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.

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

Item #JMRSPEC02172015 Fold Over Spec Sheet

Ordered By:
[Name]

[Company Name]

[Street Address]

[City, ST ZIP Code]

[Phone]



Raptor has an aggressive tear strength, reducing blow offs and allowing for fewer fasteners.
Save Your Back, & Your Time!

Item #JMSS02172015 All Product List



Item #JMKC06102015 Price \$2.00 Ea. Raptor Knives

Ship To:
[Name]

[Company Name]

[Street Address]

[City, ST ZIP Code]

[Phone]



Size matters:

There are a number of reasons to choose the widest roll possible when choosing a roofing underlayment. Wider rolls mean faster application. Wider rolls have fewer laps, resulting in less water infiltration, fewer blow-offs and the use of fewer fasteners. But there is a more practical reason to choose a wider roll:

As we compare synthetic underlayments to standard asphalt saturated felt, remember that #15 felt typically comes in 432 square foot rolls and #30 felt typically comes in 216 square foot rolls. The extra material in these rolls compensates for the lap loss, so that the rolls will actually cover 4 squares and 2 squares when installed according to manufacturer's instructions.

Synthetic underlayments do not contain extra material for lap loss and generally cover 1,000 square feet before laps are considered.

This means that wider rolls with fewer laps will cover more than narrow rolls. The difference can be dramatic:

When Is A \$70 Roll Not A \$70 Roll?

Assuming each roll covers 1000 square feet, this shows you the actual cost of covering 10 squares of decking when you factor in lap waste

Roll Width (inches)	Usable roll width (inches)	Lap waste	Usable roll size	Effective coverage per roll (sq ft)	Rolls needed to cover 10 squares of decking	Actual cost of covering 10 squares with a \$70 roll	
120	116	3.33%	96.67%	967	1.03	\$72.41	\$
60	56	6.67%	93.33%	933	1.07	\$75.00	\$5
48	44	8.33%	91.67%	917	1.09	\$76.36	\$55
42	38	9.52%	90.48%	905	1.11	\$77.37	\$555

Of course every roof is not a candidate for ten-foot Raptor. Four-foot or five-foot Raptor are better choices for cut-up roofs and roofs with lot of penetrating accessories. Experienced contractors usually take a few rolls of ten foot and a few rolls of five foot to the job and sort it out as they go.

REVOLUTIONIZING THE WAY ROOFERS WORK

Item #JMTF01272015

10 Ft Product Information

To Order: Fill out form with quantity, item #, and the description.

QTY	ITEM #	DESCRIPTION

To Order Knives-Fill Out With Quantity

QTY	PRICE EA	TOTAL PRICE
		\$