

# Defend (Residential Use Only)

## PRODUCT INFORMATION



### Self-adhering membrane provides ice and water protection for residential use under shingles

#### OVERVIEW

Defend offers excellent ice and water protection for residential use under shingles. When used on roof perimeters, valleys and flashings, Defend will help protect your home from water intrusion caused by melting snow or ice dams.

Defend is formulated using high-quality SBR modified bitumen. The SBR compound is monolithic throughout the membrane and has superior elasticity to seal around nails and staples.

Defend contains a high-strength fiberglass reinforcement for excellent dimensional stability. Defend has a special adhesive surface for secure bonding to the roof deck. Special release film is loosely attached to this adhesive and is to be removed by the installer prior to application

#### APPLICATION

When installed properly, Defend will create an effective barrier against water infiltration. Before installation, make sure all surfaces are completely dry and free of dust and dirt, which can prevent the adhesive from bonding securely to the roof deck.

Simply position Defend over the areas to be protected, remove the release film and press onto the surface of the roof deck. To complete the bonding process, it may be necessary to "roll-in" the product by using a linoleum roller or equivalent.

Bonding will occur rapidly during hot weather and slower during cooler weather, especially below 50°F (10°C). Nails or staples may be used to pre-secure the product in cooler weather to facilitate continued application. End laps shall be a minimum of 4"(100 mm); and side laps shall be a minimum of 3"(75 mm).

**NOTE: Defend is not to be used in conjunction with any Bitec commercial roofing system**

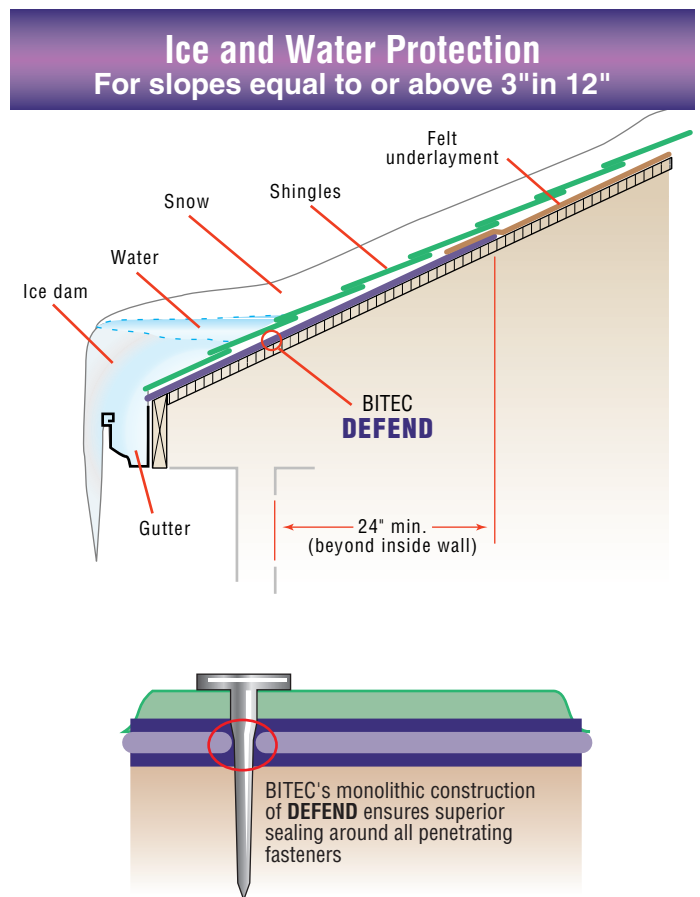
#### STORAGE

Keep Defend dry in transport and storage. Store pallets on a flat surface out of direct exposure to the elements. Do not store more than two pallets high.

#### SAFETY

Use caution when working on roof surfaces. Observe all rules of safety when performing any task related to the installation of this product and any product used in conjunction with this product.

Bitec recommends this product to be used and installed only by a professional roofing contractor who is experienced in the installation of same or similar products. Bitec manufactures this product and therefore, will not install or supervise its installation.



# Defend

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Defend rolls are 39 3/8' wide and 65.5' long

Technical Schedule	
COVERAGE	200 ft. <sup>2</sup> (20 m <sup>2</sup> )
MODIFIER	SBR
THICKNESS	0.06 in. (1.5 mm)
REINFORCEMENT	fiberglass mat
ROLLS PER PALLET	20
ROLL SIZE	2.0 squares per roll
WEIGHT	100 lb. per roll
WIDTH	39 3/8 in. ± 0.7% per roll
LENGTH	65.5 ft. per roll

Meets ASTM D 1970

All Information is given in good faith, but normal tolerances of manufacture and testing will apply. Bitec reserves the right to improve and change its products at any time without prior notice or advice. The use of Bitec products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, Bitec cannot be held responsible for the application of its products and for conditions beyond its control. All claims filed against Bitec warranties will be subject to the provisions set forth at the date of warranty issuance, and any addendum thereto. Under no circumstances will Bitec be held liable for any damage, whether personal injury or property damage, which occur during or after the application of the membrane.

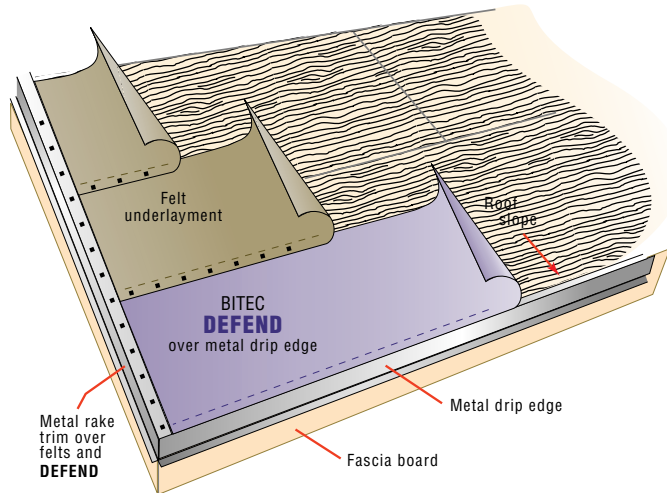
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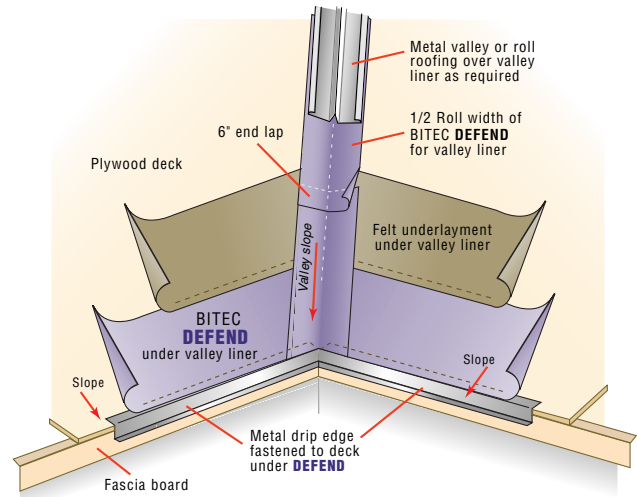


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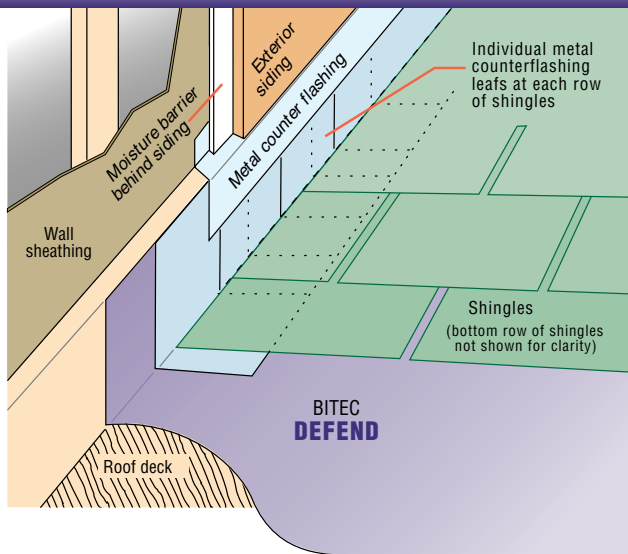
### Roof Edge Detail



### Valley Liner Detail



### Sidewall Detail



### Detail at Chimney w/o Cricket

