

Self-Adhering DEFEND

Ice and Water Protection™

BITEC'S newest product, 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 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.

INSTALLATION

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, that can prevent the adhesive from bonding securely to the roof deck.

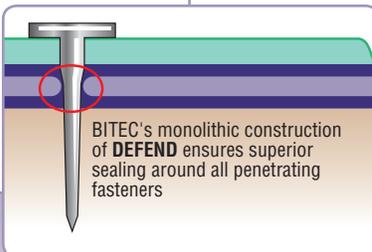
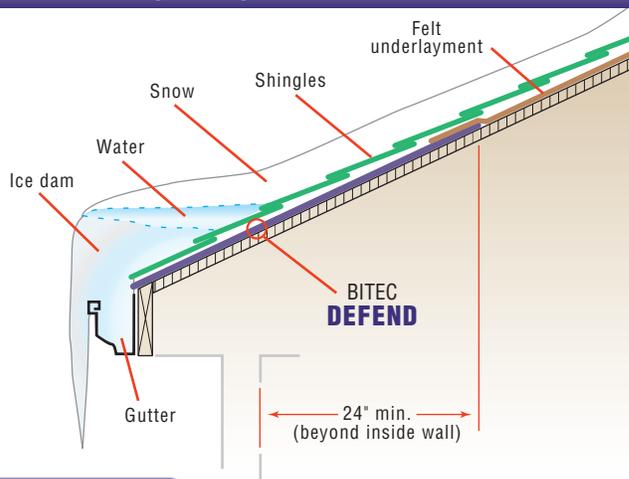
Simply position DEFEND over the areas to be protected, remove the release film and press onto the surface of the roof deck. To complete the bonding process it may be necessary to "roll-in" the product by using a linoleum roller or equivalent.

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

Ice and Water Protection For slopes equal to or above 3" in 12"



side laps shall be a minimum of 3"(75 mm).

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.

CAUTION

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.

SPECIFICATIONS

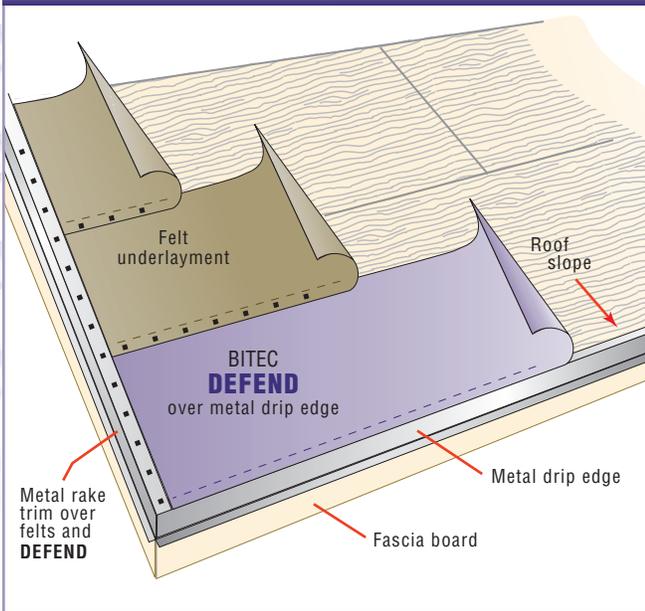
(all values are approximate)

Coverage	200 ft ² (20 m ²)
Modifier	SBR
Thickness	0.06 in. (1.5 mm)
Reinforcement	Fiberglass Mat
Rolls per Pallet	20
Roll Size	2.0 squares per roll
Weight	78 lbs. per roll
Width	39 ³ / ₈ in. ± 0.7% per roll
Length.....	65.5 ft. per roll

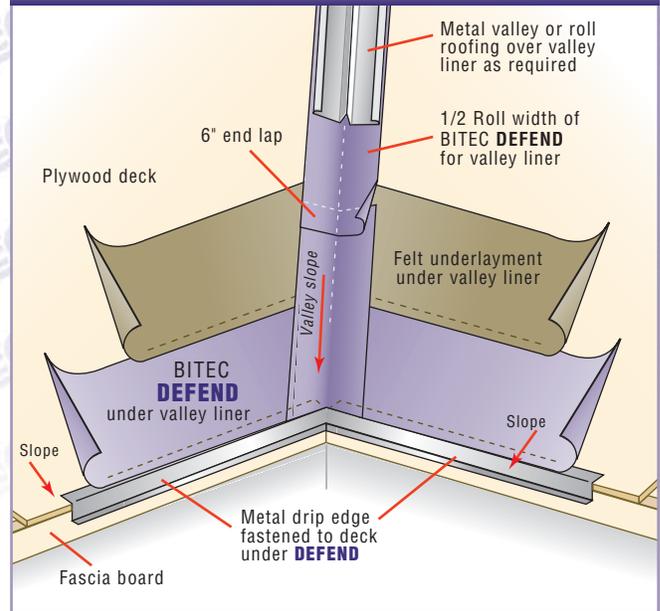
Meets ASTM D1970

See back side for installation details →

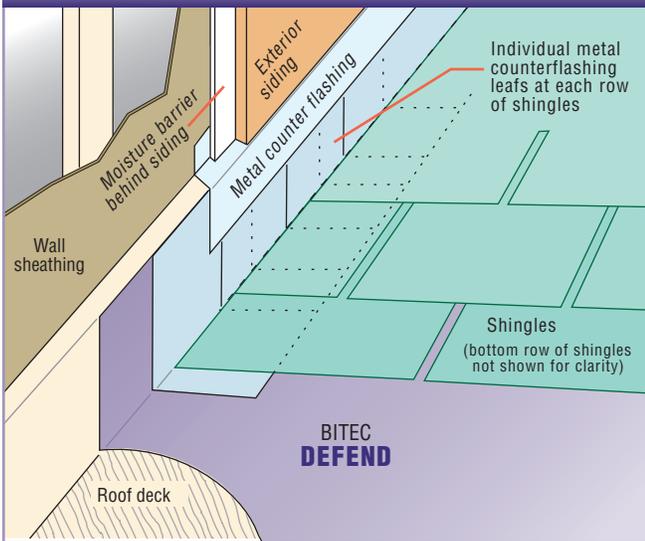
Roof Edge Detail



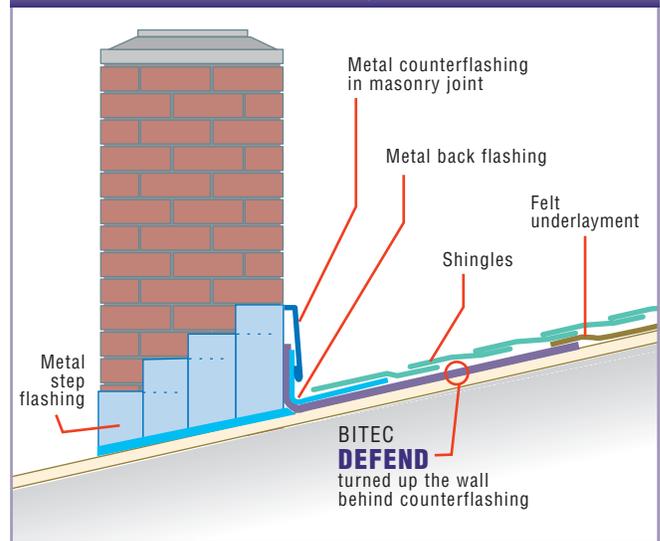
Valley Liner Detail



Sidewall Detail



Detail at Chimney w/o Cricket



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MANUFACTURERS OF ADVANCED TECHNOLOGY WATERPROOFING MEMBRANES