



### BP Shingles On Slopes Between 2/12 and 4/12

Building Products of Canada Corp. would like to point out certain guidelines concerning the application of BP shingles on roof slopes between 2/12 (1:6) and 4/12 (1:3). The following table will list which BP shingles can be installed on specific roof slopes. It must be noted that under any circumstances, no BP shingle can be installed on roof slopes below 2/12 (1:6).

Shingles Type	BP Shingle	Slope 2/12 to <3/12	Slope 3/12 to <4/12
Laminate Shingles	<ul style="list-style-type: none"> <li>• Manoir</li> <li>• Everest</li> <li>• Harmony</li> <li>• Mystique</li> </ul>	Shingles cannot be installed	Shingles can be installed using standard low slope application <sup>1</sup>
3-Tab Shingles	<ul style="list-style-type: none"> <li>• Yukon SB</li> <li>• Mirage GS</li> <li>• Dakota</li> </ul>	Shingles can be installed using standard low slope application <sup>1</sup>	Shingles can be installed using standard low slope application <sup>1</sup>

1] Shingle will only be warranted for the full term of the warranty if proper low application is followed.

#### Low Slope Application for BP Shingles :

BP's Yukon SB, Mirage GS and Dakota shingles can be applied on decks having a slope between 2/12 to 4/12 (1:6 to 1:3) and BP's Manoir, Everest, Harmony and Mystique can be applied on decks having a slope between 3/12 to 4/12 (1:4 to 1:3). The installation procedure for the shingles is the same as for standard slopes (1:3 and over) but the Eave Protection and Underlayment must be done according to one of the 3 following methods :

#### Method 1 :

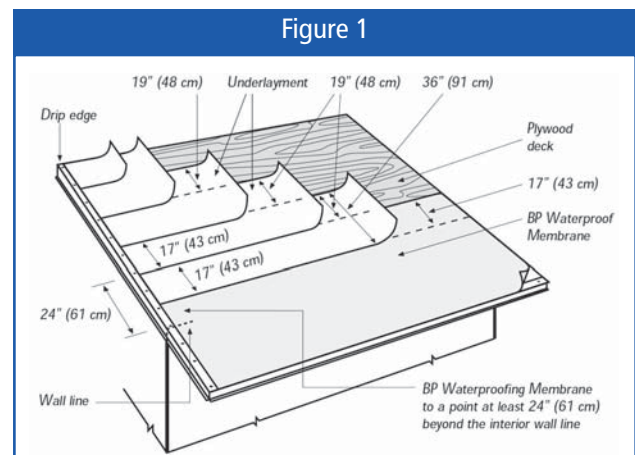
As described for normal slopes, for optimum protection against water penetration, use a single ply of GRIPGARD, GRIPGARD SX or PROGARD ULTRA over the entire wood deck. They are strong, self-adhesive, roofing membranes are applied by peeling off the release / film paper backing as it is unrolled.

Starting at the low point of the roof, apply GRIPGARD, GRIPGARD SX or PROGARD ULTRA by laying the roll horizontally. End laps must be a minimum of 15 cm (6"). Each succeeding course should be lapped 7.6 cm (3") over the preceding, lower course. Felt underlayment is not required when PROGARD ULTRA is installed over the whole roof.

#### Method 2 :

Eave protection consists of a single ply of GRIPGARD, GRIPGARD SX or PROGARD ULTRA Waterproofing Membrane laid horizontally and extending up the roof, from the eaves to a point at least 61 cm (24") beyond the interior wall line. End laps must be a minimum of 15 cm (6"). If more than one width is required, overlap the second course 10 cm (4") over the first (see **Figure 1**).

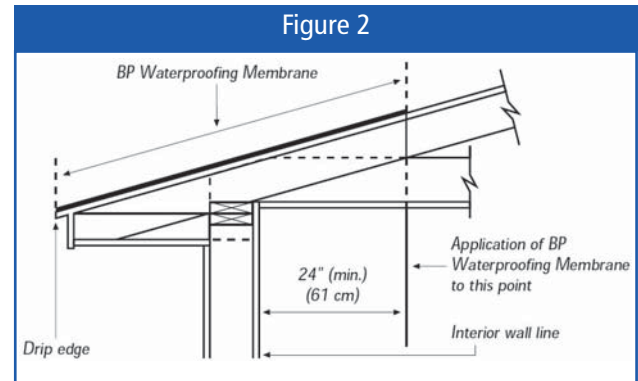
Next, install the underlayment. This calls for a double layer of BP's GRIPGARD, GRIPGARD SX, PROGARD ULTRA,





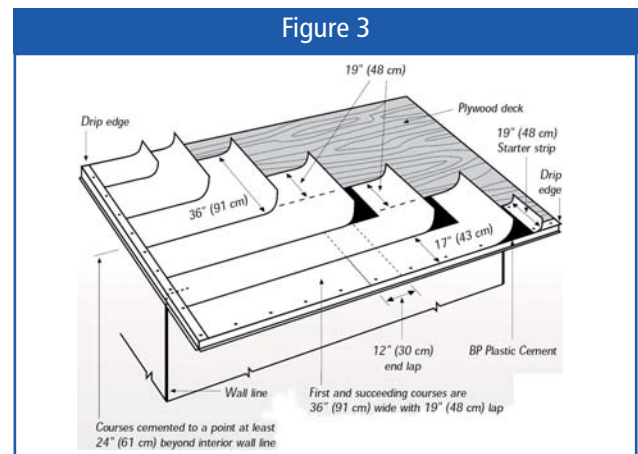
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n°15 CSA Pro Felt, n°15 Asphalt Felt Plain, DECKGARD or other BP roofing asphalt felt underlayment. Lay horizontally over the rest of the roof. Underlayment must be applied over the entire roof deck. Start with a 91 cm (36") wide sheet overlapping GRIPGARD, GRIPGARD SX or PROGARD ULTRA by 43 cm (17"). Apply a second 91 cm (36") sheet, overlapping the first one 48 cm (19"), leaving 43 cm (17") exposed. Thereafter, 91 cm (36") sheets are laid, each to overlap the upper 48 cm (19") of the preceding course, until the rest of the roof deck has been covered. Each course of felt is nailed towards its upper edge with only enough nails to hold it in place until the shingles are applied (see **Figure 2**).



#### **Method 3 :**

This special procedure calls for an eave protection made up of a double layer of BP n°15 Asphalt Felt Plain or BP Standard Asphalt Sheathing which is both cemented and nailed in the eaves and nailed only over the rest of the roof. Start application with a 48 cm (19") wide starter course of felt, laid along the eaves flush with the edge of the roof. The underlayment must be cemented from the edge of the roof up to a point at least 61 cm (24") inside the interior wall line. Continue with a full width 91 cm (36") of felt over the starter course and flush with the edge of the roof, completely covering the 48 cm (19") starter course. Each course of felt in the eaves is cemented to the preceding course using Asphalt Plastic Cement, applied at the rate of 1 L/m<sup>2</sup> (1 gallon/50 ft<sup>2</sup>). A 4 kg container of Asphalt Plastic Cement will cover approximately 2.3 m<sup>2</sup> (24.5 ft<sup>2</sup>), 1.5 mm (1/16") thick. Asphalt Plastic Cement must be applied uniformly with a comb, putty knife or notched trowel so that at no point will dry felt touch dry felt. Special care must be taken to ensure that the proper amount of Asphalt Plastic Cement is applied - refer to the label. The felt is pressed firmly into the cement to ensure proper bonding. Nail sufficiently to hold it in place until the shingles are applied. Continue applying Asphalt Plastic Cement and felt this way up to a point at least 61 cm (24") inside the interior wall line. Beyond this point 91 cm (36"), sheets are laid, but without Asphalt Plastic Cement, lapping each course 48 cm (19") over the preceding one. Each course of felt is nailed sufficiently to hold it in place until the shingles are applied (see **Figure 3**).



#### **Ventilation :**

All roof structures must be provided with through ventilation to prevent entrapment of moisture-laden air beneath the deck. Ventilation provisions must meet or exceed current National Building Code requirements. In the U.S.A., check local building codes for minimum requirements. In general, as specified in most building codes, for a low-slope roof or one with cathedral ceilings, every roof space or attic above an insulated ceiling must be ventilated with openings to the exterior to provide an unobstructed vent area of not less than 1/300 ft<sup>2</sup> of the total insulated ceiling area. This ratio



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does not apply for all roofs. A low slope roof or one with cathedral ceilings requires twice (2x) the ventilation or a ratio of 1/150 ft<sup>2</sup>. The vents used may be roof-type vents, eave-type vents, gable-end type vents or any combination, and should be uniformly distributed to ventilate each roof space. When calculating the net free area (unobstructed open area), be sure to factor in any obstacle to free air circulation such as screens, grids, louvers, blades, etc.

There must be at least 8 cm (3") of space between the insulation in the attic and the deck. If insulation was added to the deck without leaving space for air flow, the ventilated soffit might not be able to do the job it was intended to do.

**The shingle warranty will only be valid if all roof structures are provided with proper through ventilation.**