

# APPLICATION INSTRUCTIONS

## ASPHALT SHINGLES



### SECTION 4

#### THREE-TAB SHINGLES

##### 4.1 Mirage GS , Yukon SB , Dakota

#### **4.1 - THREE-TAB SHINGLE - Mirage GS, Yukon SB, Dakota**

Before proceeding with the installation, please refer to the following sections in this Application Instructions :

**Section 1** - Getting Ready For The Job ;

**Section 2** - Preparation, Protection of vulnerable area & Ventilation ;

**Section 3** - General Instructions.

**NOTE :** Compliance with all local safety regulations is the responsibility of the applicator. Compliance with current building code requirements is the responsibility of the applicator and the homeowner. Self-sealing hip and ridge shingles contain self-sealing adhesive strips that must be exposed to sufficient surface temperatures before full thermal sealing can occur. Shingles installed in the fall or winter may not seal until they are exposed to such periods of sufficient surface temperatures (see Section 3.1-F). In addition, contamination of the self-sealing adhesive by dust or foreign matter may prevent the sealing strip from achieving full thermal seal. Prior to sealing, shingles are more vulnerable to being blown-off or incurring wind damage.

Building Products of Canada Corp. reserves the right to modify the following application instructions at any time. To obtain the latest and complete version of the application instructions, please visit [www.bpcan.com](http://www.bpcan.com).

#### **A - GENERAL DIRECTIONS :**

- **Roof Deck**  
See Section 2.2
- **Cement**  
See Section 3.1-B
- **Installing Shingles over an Existing Roof**  
See Section 3.1-G
- **Eave Protection**  
See Section 3.2-A
- **Underlayment**  
See Section 3.2-B
- **Low Slope Application**  
See Section 3.3
- **Valley Preparation**  
See Section 3.5
- **Flashing**  
See Section 3.6

## B - Application of Shingles :

### Nailing :

Improper nailing will render the warranty null and void. The head of the nails must be driven flush to the top of the shingle surface. Raised nails can result in shingle distortion and may prevent sealing due to lack of contact with the sealant. Do not use staples to attach shingles. A minimum of four (4) nails per shingle is required for all slopes. On Mansard roofs 15/12 and up, a minimum of six (6) nails is required. Nail at 3.8 cm (1 1/2") of the shingle ends, with the other nails approximately 1.27 cm to 2.54 cm (1/2" to 1") above the cut-outs. For installation with six (6) nails, place a nail at 2.5 cm (1") from each edge, a nail at 30.2 cm (11 7/8") from each edge and another nail at 32.7 cm (12 7/8") of each edge. Do not nail on the adhesive strip. Please refer to **Section 3.1-A**, **Section 3.1-D**, **Section 3.1-E** and **Figure 5**.

### Starter Course :

- 1] On the deck chalk a horizontal line at 18.8 cm (7 3/8") from the lower edge of the drip ;
- 2] Use BP Starter Strip Shingle or cut away and discard the lower tab portion, 14.3 cm (5 5/8"), of the shingles ;
- 3] In order to off-set seams, cut 15,2 cm (6") off the left end of the first shingle and install with the factory applied adhesive adjacent to the eaves. Starting at the rake edge, align top edge of this piece with the chalk line. If the shingles do not overhang the eaves by 6 mm (1/4"), adjust your horizontal chalk line accordingly ;
- 4] Continue across the roof with full length trimmed shingles. Nail with four nails equally spaced across the shingle, à 7.6 cm (3") up from the eaves (see **Figure 5**).

### First Course :

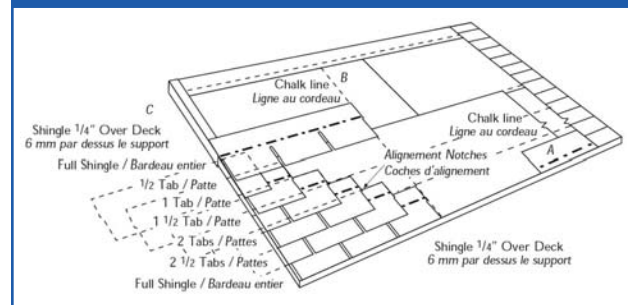
Nailing instructions (starting from the rake edge) (see **Figure 22**). On the starter course piece, nail first at 7.6cm to 10cm (3" to 4") from the lower edge and at 15.2cm (6") from the rake edge. Align horizontally all other nails, spacing them 30.5cm (12") apart. For other methods, make sure nails will not show through the cut-outs of the overlying first course shingles.

### Succeeding Courses :

Start the first course with a full shingle. Offset each shingle row by half a tab. At the 7<sup>th</sup> row, go back to the vertical line and repeat the sequence. For optimum alignment,

draw reference vertical lines every 2 m (78 3/4") to check and adjust your tab vertical alignment. Draw a horizontal line every 28.5 cm (11 1/4") in order to check and adjust your horizontal alignment (see **Figure 22**).

Figure 22



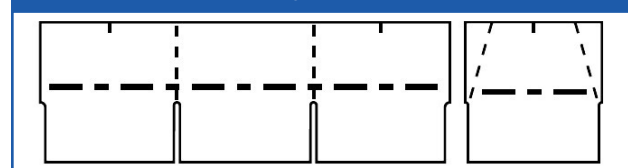
### Shingles In Valley :

When a course of shingles is applied, trim it off flush with the chalk line. Cut off the top corner of each end shingle at an angle, to prevent water from penetrating between the roofing courses. Cement shingles to the valley flashing with Asphalt Plastic Cement and nail in the normal fashion. Please refer to (see **Section 3.5**).

### Hip and Ridge Treatment :

The last course of shingles applied must have the exposed granular surface to within 14.3 cm (5 5/8") of the ridge. The headlap of the shingle is turned over the ridge and nailed on the opposite slope. When both slopes have been completed in this fashion, the ridge capping can be applied. Cut full-size shingles into 3 equal parts to make capping. Cut off both corners of each section at an angle (see **Figure 23**).

Figure 23



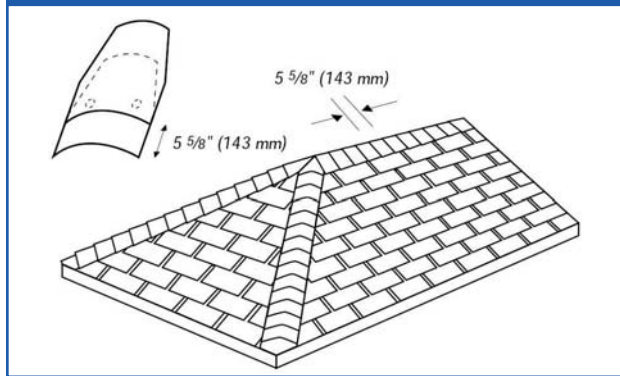
### Apply ridge caps as follows :

- 1] Bend the cap down the center so as to have equal exposure of the granules on each side of the ridge. In cold weather, warm the cap before bending.
- 2] Begin at bottom of a hip or at end of ridge opposite to the prevailing wind and apply caps, overlapping to give a 14.3 cm (5 5/8") exposure (see **Figure 24**).

# SECTION 4



Figure 24



Nail cap with one nail on each side 15,2 cm (6") from the exposed end and 2,5 cm (1") from each side. The same method applies for the hip and ridges.

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If this application instructions differ from the instructions on the packaging, this document is to be considered current. Please make sure to download the most up to date version of this document from the Building Products of Canada Corp. website [www.bpcan.com](http://www.bpcan.com). Please refer to local building codes for addition installation requirements.