



**February 19, 2016**

## Technical Bulletin TB-2016-02

### I. Gum box revisions:

The following standards have been reviewed and approved by ARCA Warranty Ltd., and will be in effect for jobs bid after March 28<sup>th</sup>, 2016.

**1. The installation details when installing gum boxes (pitch pockets) on Built-up roof (BUR) membranes and SBS-modified bitumen membranes has been revised.**

**Standards being replaced:**

- .1 Only rigid service lines shall be waterproofed using gum boxes.
- .2 Flexible service lines shall be contained within a curbed enclosure.
- .6 When more than one service line occupies a gum box, a minimum separation distance of 50 mm (2") shall be maintained between each service line and the gum box sides.

**NEW Standard:**

- .1 Rigid service lines shall be waterproofed using gum boxes.
- .2 Flexible lines shall be contained within a curbed enclosure or gum cup provided boxes are filled with two-part pourable sealer. The flexible line must be supported until the sealer has cured.
- .6 When more than one service line occupies a gum box, a minimum separation distance of 25mm (1") shall be maintained between each service line and the gum box sides.
- .7 Three sided gum boxes require minimum 100mm (4") flanges attached to the parapet wall and must be waterproofed with membrane flashing.

This change will be referenced in the following sections of the ARCA Roofing Application Standards Manual;

- B.U.R. 2.3.5.
- MB 2.3.5.
- EPDM 2.3.5.
- TP 2.3.5.



Standards 2.3.5.3., 2.3.5.4. and 2.3.5.5. remain unchanged.

## II. Required fire resistive underlayment

The following standards have been reviewed and approved by ARCA Warranty Ltd., and will be in effect for jobs bid after March 28<sup>th</sup>, 2016.

1. **When torching membranes over heat sensitive insulation material, the standard has been revised.**

**Standard being replaced:**

MB 5.6.4.

When torching membranes directly to glass faced gypsum board, direct the majority of torch flame towards the modified bitumen rolls rather than the surface of the gypsum roof board.

**NEW Standard:**

MB 5.6.4.

When torching over heat sensitive substrate or insulation, a fire resistive underlayment **MUST** be installed at all joints.



### III. Uninsulated systems on wood decks:

The following standards have been reviewed and approved by ARCA Warranty Ltd., and will be in effect for jobs bid after March 28<sup>th</sup>, 2016.

1. **When installing an uninsulated SBS modified bitumen roofing system on a wood deck, the standard has been revised.**

**Standard being replaced:**

MB 3.1.2.1.

- .1 Direct application of hot bitumen to wood decks is not permitted.
- .2 S.B.S. base sheets may be mechanically fastened to the wood sheathing decks with round headed nails incorporating a minimum 25mm (1") diameter round steel washer or with screws and plates.
- .3 When using round headed nails, the nail shall be long enough to extend a minimum distance of 12.5mm (1/2") beyond the lower surface of the decking. For dimensional lumber decks, the nails shall penetrate a minimum distance of 25mm (1") into the wood decking. Nail spacing shall be at 200mm (8") centres along laps and at 400mm (16") centres throughout the field of the base sheet.
- .4 When using screws and minimum 75mm (3") steel plates, spacing shall be minimum 300mm (12") along the laps and minimum 500mm (19.68") throughout the field of the base sheet. Follow the membrane manufacturer's application recommendations when mechanically fastening the screws and plates.

**NEW Standard:**

MB 3.1.2.1.

- .1 Direct application of hot bitumen to wood decks is not permitted. Glass coated base sheet or fire resistant approved underlayment must be installed on all wood decks when a modified bituminous membrane is mechanically fastened. There can be no exposed fasteners.
- .2 Follow the membrane manufacturer's application recommendations when mechanically fastening the screws and plates.



## IV. Re-roofing over existing stramit deck material:

The following standards have been reviewed and approved by ARCA Warranty Ltd., and will be in effect for jobs bid after March 28<sup>th</sup>, 2016.

2. **When re-roofing over stramit material, the standard has been revised to provide for consistent interpretation.**

**Standard being replaced:**

When the primary membrane is being removed from Stramit or glass fiber insulation, that have a facer, the condition of the insulation facer after the tear off determines the surface preparation method for the application of the new roof membrane. When less than seventy percent (70%) of the facer remains intact, an initial layer of secondary insulation/cover board must be mechanically fastened to the structural deck, followed by another layer of secondary insulation/cover board adhered with hot bitumen. When more than seventy percent (70%) of the facer remains intact both layers of secondary insulation/cover board may be adhered with hot bitumen. Care must be taken to ensure that the existing primary insulation is adequately attached to the existing vapour retarder membrane and structural deck. When thermal upgrading is required, the first layer of the secondary insulation/cover board may be substituted for/by the upgraded insulation material. Attachment requirements remain the same.

**NEW Standard:**

When the primary membrane is being removed from stramit or glass fiber insulation, that have a facer, the condition of the insulation facer after the tear off determines the surface preparation method for the application of the new roof membrane. When re-roofing over stramit the first layer of approved coverboard must be mechanically fastened to the structural joist or deck. If the first layer is fibreboard, then the second layer of approved 12.7mm (1/2") coverboard may be adhered or mechanically fastened with screws and plates. When thermal upgrading is required, the first layer of the secondary insulation/cover board may be substituted for/by the upgraded insulation material. Attachment requirements remain the same.

This change will be referenced in the following sections of the ARCA Roofing Application Standards Manual;

- B.U.R. 10.2.8.
- MB 10.2.8.



## V. Design Standard

The following standards have been reviewed and approved by ARCA Warranty Ltd., and will be in effect for jobs bid after March 28<sup>th</sup>, 2016.

### 3. The standard to which the roof is designed has been clarified.

**Standard being replaced:**

It is recommended that roof assemblies are designed in accordance with National Building Code to meet wind uplift performance. The roof membrane manufacturer shall confirm system application requirements to resist design wind loads for the building location.

**NEW Standard:**

Roof assemblies must meet the standards as set by the authority having jurisdiction.

This change will be referenced in the following sections of the ARCA Roofing Application Standards Manual;

- B.U.R. 6.2.1.
- MB 6.2.1.
- EPDM 6.2.1.
- TP 6.2.1.



## VI. Roof area divider height clarification:

The following standards have been reviewed and approved by ARCA Warranty Ltd., and will be in effect for jobs bid after March 28<sup>th</sup>, 2016.

### 4. Clarification on roof area divider heights in Built-up roof (BUR) membranes, SBS-modified bitumen membranes and single ply membranes (E.P.D.M., P.V.C. & T.P.O.)

**Standard being replaced:**

Minimum roof area divider heights may be reduced to 75mm (3") where the roofing system drainage slopes away from the divider.

**NEW Standard:**

Where the roof system drainage slopes away on both sides of the roof area divider with a minimum slope of 1:50 (1/4"/ft.), the roof area divider height may be reduced to a minimum distance of 75mm (3") above the finished roof surface.

This change will be referenced in the following sections of the ARCA Roofing Application Standards Manual;

- B.U.R. 2.1.3.4.
- MB 2.1.3.4.
- EPDM 2.1.3.4.
- TP 2.1.3.4