



**April 1, 2019**

## Technical Bulletin TB-2019-01

### I. New ARCA Approved SBS Fire Rated Cap Sheets.

On March 20<sup>th</sup>, 2019, ARCA Warranty Ltd. approved the addition of the following fire rated membrane cap sheet for use in the ARCA Five (5) and Ten (10) year Warranty Certificate program.

#### **Soprema Sopralene Flam 180 FR**

On March 20<sup>th</sup>, 2019, ARCA Warranty Ltd. approved the addition of the following fire rated membrane cap sheets in the ARCA Five (5), Ten (10) and Fifteen (15) year Warranty Certificate program.

#### **Soprema Sopralene Flam 250 FR Soprema Sopraply Traffic Cap FR 661**

Changes will be referenced in the ARCA Roofing Application Standards Manual.

### II. Revised MB Parapet Height Standard.

On March 20<sup>th</sup>, 2019 ARCA Warranty Ltd. approved the following revision to the ARCA Roofing Application Standards Manual.

#### **MB 7.1.7.**

##### Old Standard

The maximum membrane flashing height is 1067mm (42") above a surface of the primary membrane. A variance request must be submitted to the Technical Committee when membrane flashing height is to exceed 1067mm (42").

##### Revised Standard

The maximum membrane flashing height is 1067mm (42") above a surface of the primary membrane.

These changes will be in effect for jobs bid after May 20<sup>th</sup>, 2019. Changes will be referenced in the ARCA Roofing Application Standards Manual.



### III. Removal of EPDM and TP Maximum Parapet Height.

On March 20<sup>th</sup>, 2019 ARCA Warranty Ltd. approved the removal of the maximum parapet height for EPDM and TP membranes.

**EPDM 7.1.8.**

**TP 7.1.7.**

Removed Standard

The maximum membrane flashing height is 1100mm (42") above the primary membrane surface. A variance request must be submitted to the Technical Committee when membrane flashing height is to exceed 1100mm (42").

Changes will be referenced in the ARCA Roofing Application Standards Manual.

### IV. Additional Approved Auxiliary Leveling Surface.

On March 20<sup>th</sup>, 2019 ARCA Warranty Ltd. approved the following revision to the ARCA Roofing Application Standards Manual.

**BUR 3.2.1.2.**

**MB 3.2.1.2.**

**EPDM 3.2.2.4.1.**

**TP 3.2.2.4.1.**

Old Standard

ARCA accepted auxiliary leveling surfaces may be comprised of a minimum 9.5mm (3/8") thick Fibre Reinforced Gypsum Panel (ASTM 1278), 12.7mm (1/2") thick Glass Mat Gypsum Substrate (ASTM 1177), 12.7mm (1/2") thick Glass Mat Gypsum Substrate (ASTM C1396), 12.7mm (1/2") thick plywood, or 12.7mm (1/2") thick O.S.B. when not used as a thermal barrier.

New Standard

ARCA accepted auxiliary leveling surfaces may be comprised of a minimum 9.5mm (3/8") thick Fibre Reinforced Gypsum Panel (ASTM 1278), 12.7mm (1/2") thick Glass Mat Gypsum Substrate (ASTM 1177), 12.7mm (1/2") thick Glass Mat Gypsum Substrate (ASTM C1396), **12.7mm (1/2") Fiber-Mat Reinforced Cementitious Board (ASTM 1325)**, 12.7mm (1/2") thick plywood, or 12.7mm (1/2") thick O.S.B. when not used as a thermal barrier.

Changes will be referenced in the ARCA Roofing Application Standards Manual.



## V. Revised MB Membrane Flashing Standard.

On March 20<sup>th</sup>, 2019 ARCA Warranty Ltd. approved the following revision to the ARCA Roofing Application Standards Manual.

### **MB 7.3.1.6.**

#### Old Standard

Sheet membranes shall have no poly film on the surface (i.e. lightly sanded or granular) to accept primers, cold-applied adhesives or liquid-applied membranes. A cold-applied or self-adhesive field cap sheet, a minimum of 600mm (24") wide, may be applied over the base sheet surface prior to the application of cap ply flashing to avoid torch application near the roof junction. Cap sheet may be laid perpendicular to the direction of the base sheet for this purpose.

#### Revised Standard

Sheet membranes shall have no poly film on the surface (i.e. lightly sanded or granular) to accept primers, cold-applied adhesives or liquid-applied membranes. A cold-applied or self-adhesive field cap sheet, **a maximum distance of 1000mm (39") wide**, may be applied over the base sheet surface prior to the application of cap ply flashing to avoid torch application near the roof junction. Cap sheet may be laid perpendicular to the direction of the base sheet for this purpose.

Changes will be referenced in the ARCA Roofing Application Standards Manual.

## VI. Revised MB Membrane Flashing Material Listing.

On March 20<sup>th</sup>, 2019 ARCA Warranty Ltd. approved the separate listing of SBS membrane flashing materials in the ARCA Roofing Application Standards Manual. Approved membrane flashings will be listed separately in MB Section 7.4 of the ARCA Roofing Application Standards Manual as well as on a new SBS Accepted Membrane Flashing Material Listing.

Changes will be referenced in the ARCA Roofing Application Standards Manual.



## VII. Revised Leak Detection Standard.

On March 20<sup>th</sup>, 2019 ARCA Warranty Ltd. approved revised standards on leak detection requirements for vegetated (green) roof assemblies.

### **MB 11.8.**

### **TP 11.8.**

#### Old Standard

##### 11.8.2.

Accepted non-destructive electronic leak detection (ELD) of the roof membrane shall be a vector mapping (VM) system. A qualified technician shall conduct the leak detection test and provide to the roofing contractor a detailed report with a roof plan showing locations of all detected breaches or sign-off as being watertight.

##### 11.8.3.

Initial ELD testing of the roof area shall be performed only when the roof membrane system is fully complete including all penetrations. The conductor wire required for leak detection testing shall frame only the area with vegetated roof cover including a minimum of one metre outside the vegetated roof separation barrier or up-stand.

##### 11.8.4.

A conductive medium steel mesh, directly below the vegetated roof area, shall be installed by the roofing contractor under the fully adhered roofing membrane or insulation cover board. The application of the mesh shall be in conformance with the VM suppliers written instructions and compatible with the membrane application.

##### 11.8.5.

A qualified technician from the supplier of the VM system is responsible for the installation of the conductor wire and related hardware on the roof membrane surface and to perform the subsequent ELD testing.

##### 11.8.6.

The required number of leak detection tests under the roofing contractors' scope of work is as follows:

- a) Prior to the installation of insulation and/or vegetated roof system components above the completed roofing membrane.
- b) After repair of breaches in the membrane system identified and recorded by the ELD technician if caused by the roofing contractor's work. If the identified damage is caused by others, the cost of repair and subsequent leak detection testing is the responsibility of others.
- c) Following completion of the roofer's scope of work. If breaches are detected, another test shall be conducted following repairs.



### Revised Standard

#### 11.8.2.

Accepted non-destructive electronic leak detection (ELD) of the roof membrane shall be completed in accordance with ASTM D7877 “Standard Guide for Detecting and Locating Leaks in Waterproof Membranes”. A qualified technician shall conduct the leak detection test and provide to the roofing contractor a detailed report with a roof plan showing locations of all detected breaches or sign-off as being watertight.

#### 11.8.3.

Initial testing of the roof area shall be performed only when the roof membrane system is fully complete including all penetrations. The leak detection testing shall frame only the area with vegetated roof cover including a minimum of one metre outside the vegetated roof separation barrier or up-stand.

#### 11.8.4.

The required number of leak detection tests under the roofing contractors’ scope of work is as follows:

##### 11.8.4.1.

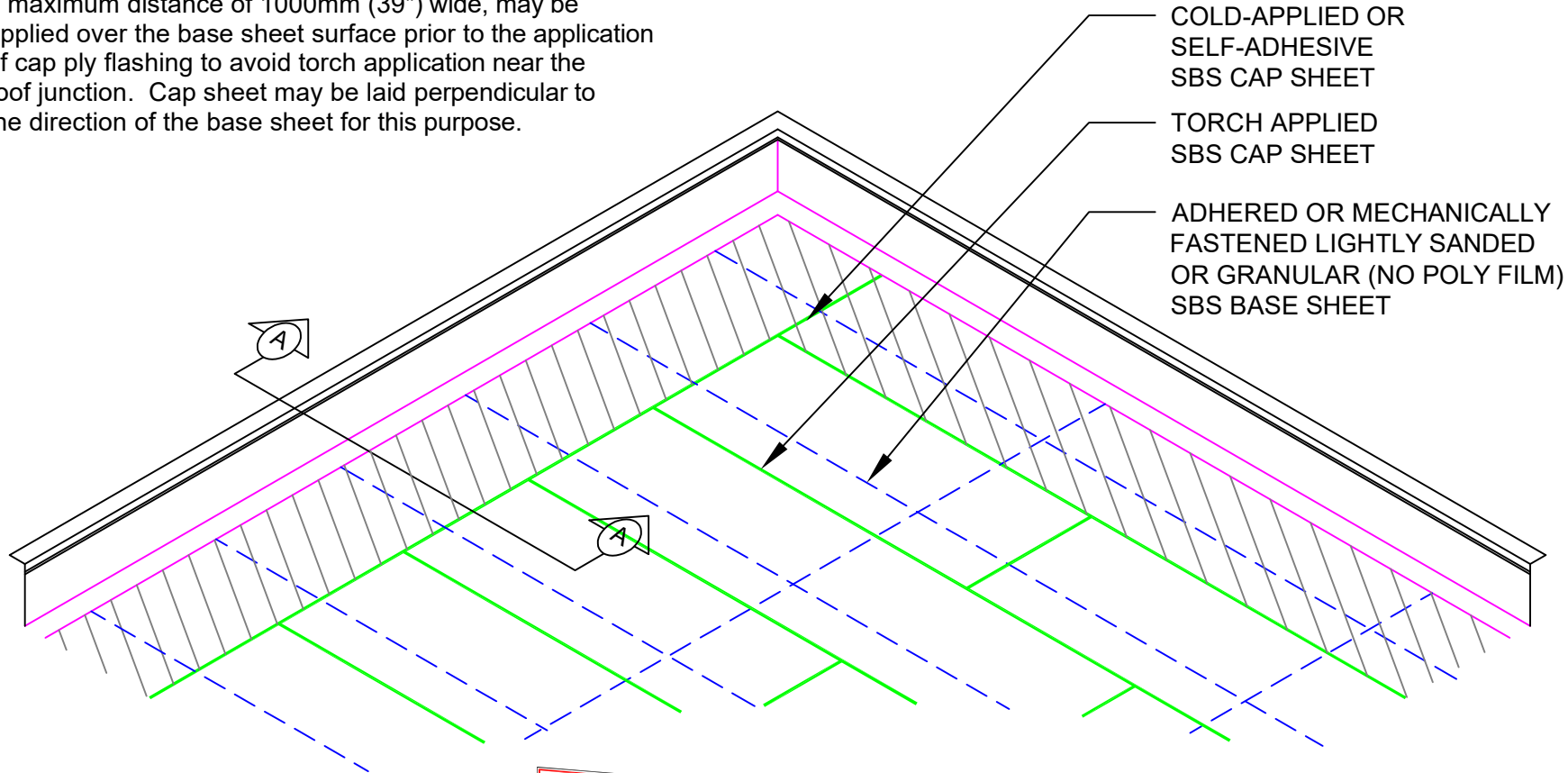
Prior to the installation of insulation and/or vegetated roof system components above the completed roofing membrane.

##### 11.8.4.2.

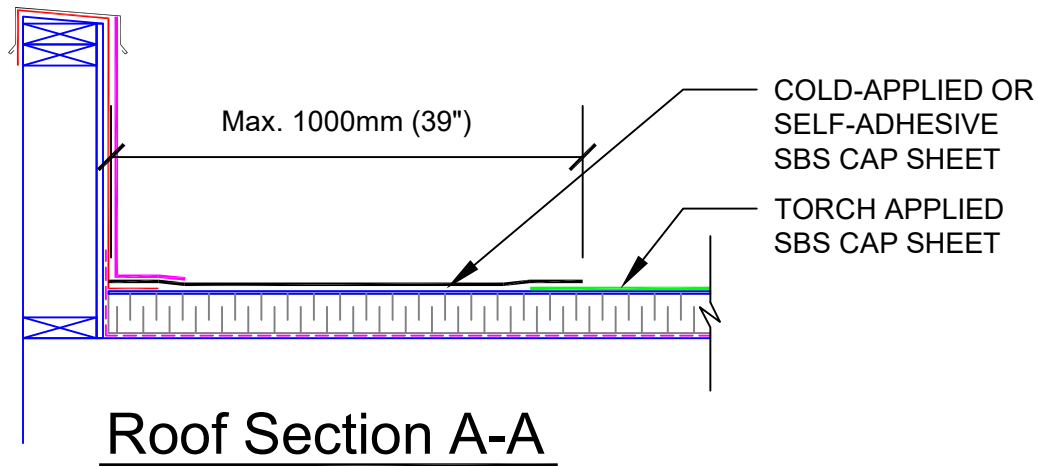
After repair of breaches in the membrane system identified and recorded by the ELD technician if caused by the roofing contractor’s work. If the identified damage is caused by others, the cost of repair and subsequent leak detection testing is the responsibility of others.

Changes will be referenced in the ARCA Roofing Application Standards Manual.

MB 7.3.1.6.  
 Sheet membranes shall have no poly film on the surface (i.e. lightly sanded or granular) to accept primers, cold-applied adhesives or liquid-applied membranes. A cold-applied or self-adhesive field cap sheet, a maximum distance of 1000mm (39") wide, may be applied over the base sheet surface prior to the application of cap ply flashing to avoid torch application near the roof junction. Cap sheet may be laid perpendicular to the direction of the base sheet for this purpose.



COLD-APPLIED OR SELF-ADHESIVE SBS CAP SHEET  
 TORCH APPLIED SBS CAP SHEET  
 ADHERED OR MECHANICALLY FASTENED LIGHTLY SANDED OR GRANULAR (NO POLY FILM) SBS BASE SHEET



# ARCA Picture Framing Detail 2-Ply Modified Bituminous Roofing