



April 3, 2017

Technical Bulletin TB-2017-03

I. New ARCA Approved Membrane Flashing Materials - 15 Year ARCA Warranty Certificate.

On March 22nd, 2017 ARCA Warranty Ltd. approved the addition of ARCA Approved Modified Bitumous Membrane Flashing Materials use in the 15-Year ARCA Warranty Certificate program.

MB 7.2 Membrane Flashing Materials

- 7.2.7. To qualify for an ARCA 15 Year Warranty Certificate, base ply membrane flashing materials shall be polyester or composite reinforced with a minimum thickness of 3.0mm (118 mils) conforming to ASTM D6162 or ASTM D6164.
- 7.2.8. To qualify for an ARCA 15 Year Warranty Certificate, cap ply membrane flashing materials shall be polyester or composite reinforced with a minimum thickness of 4.0mm (157 mils) conforming to ASTM D6162 or ASTM D6164.

Accepted Sheet Membrane Flashing Materials:

IKO

Base Ply: TP-180 FF
Cap Ply: Torchflex TP-250 Cap, Torchflex TP-HD-Cap

Soprema

Base Ply: Sopralene Stick HR 20, Sopralene Flam 180
Cap Ply: Sopralene Flam 250 GR, Sopraply Traffic Cap 560

MB-7.3.4 Liquid-applied Membrane Flashing Application

- 7.3.4.9. To qualify for an ARCA 15 Year Warranty Certificate, liquid-applied membrane flashing shall consist of a two-component PMMA liquid-applied membrane.

Accepted Liquid Membrane Materials:

Soprema Alsan RS 230 [PMMA Acrylic Resin (two component)]

This change will be in effect for jobs bid after May 22nd, 2017. Changes will be referenced in the ARCA Roofing Application Standards Manual.



II. New ARCA standards for Roof Terraces.

On March 22nd, 2017 ARCA Warranty Ltd. approved new standards for Roof Terraces to be added to the ARCA Roofing Application Standards Manual.

New definition:

Roof Terrace: A roof terrace is an outdoor space constructed on the surface of a roofing membrane intended for occupancy by building occupants.

Sections of the ARCA Roofing Application Standards Manual that will have new standards on roof terraces:

- MB 6 – MB Primary Membrane
- MB 9 – MB Protected Membrane
- TP 6 – TP Primary Membrane
- TP 9 – TP Protected Membrane
- BUR and EPDM will not allow roof terraces.

Revised Standards:

1. Roof Terraces are to be installed over a minimum 6.4mm (1/4") asphalt impregnated coreboard membrane protection layer.
2. The designer must take into consideration the compressive strength of the underlying materials to prevent damage to the insulation and roofing membrane from spot loads which may exceed design limits.
3. Roof areas with roof terraces are eligible for five (5) or ten (10) year Warranty Certificates only.
4. The cost to remove and replace the roof terrace material to facilitate access to the roof membrane for investigation and repair of workmanship related leaks is included however; it is the responsibility of the building owner to cover costs for removal and replacement of items that were not installed by the roofing contractor.
5. Roof leaks as the result of membrane damage due to the work and activities of others, maintenance or from contaminants are not covered under the Warranty Certificate.

This change will be in effect for jobs bid after May 22nd, 2017. Changes will be referenced in the ARCA Roofing Application Standards Manual.



III. Polystyrene Insulation Revision.

On March 22nd, 2017 ARCA Warranty Ltd. approved the removal of the ARCA Standard that indicates that ARCA recommends the installation of polystyrene insulation in a single layer.

The following standards will be removed:

- BUR 5.1.6.
- MB 5.1.6.
- EPDM 5.1.6.
- TP 5.1.6.

Standard that is being removed;

It is recommended that polystyrene insulations be installed in a single layer. Where multiple layers of polystyrene insulation are specified, the boards shall be adhered together with a compatible non-flammable insulation adhesive recommended by the insulation manufacturer.

This change will be in effect for jobs bid after May 22nd, 2017. Changes will be referenced in the ARCA Roofing Application Standards Manual.

IV. Revised Standard to include Gypsum Board as an acceptable Auxiliary Leveling Surface.

On March 22nd, 2017 ARCA Warranty Ltd. approved the revision to the ARCA Roofing Application Standards Manual to accept the use of gypsum board as an auxiliary leveling surface.

The following standards will be revised:

- 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 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 Gypsum Board (ASTM C1396), 12.7mm (1/2") thick plywood, or 12.7mm (1/2") thick O.S.B. when not used as a thermal barrier.

This change will be in effect for jobs bid after May 22nd, 2017. Changes will be referenced in the ARCA Roofing Application Standards Manual.



V. Revised Modified Bitumous Gum Box Standard.

On March 22nd, 2017 ARCA Warranty Ltd. approved the revision to the ARCA Roofing Application Standards Manual for Modified Bitumous gum boxes.

Old standard MB 2.3.5.4:

The gum box shall be packed with oakum or other material to contain the sealer. The gum box shall be filled with a minimum 50mm (2") thick layer of rubberized asphalt sealer or a pourable sealer and left crowned to shed water. Plastic cement is not permitted to fill gum boxes and shall not be used for this purpose.

New standard MB 2.3.5.4:

The gum box shall be packed with material to contain the sealer. The gum box shall be filled with a minimum 100mm (4") thick layer of rubberized asphalt sealer or a pourable sealer. The inside faces of the metal gum box shall be primed with a primer compatible with the rubberized asphalt sealer or a pourable sealer. Plastic cement is not permitted to fill gum boxes and shall not be used for this purpose.

This change will be in effect for jobs bid after May 22nd, 2017. Changes will be referenced in the ARCA Roofing Application Standards Manual.

VI. Revised Ballast Standard in Protected Membrane Roofs.

On March 22nd, 2017 ARCA Warranty Ltd. approved a revision to clarify acceptable ballast material to the ARCA Roofing Application Standards Manual.

The following standards will be revised:

- BUR 9.8.3.
- MB 9.6.3.
- TP 9.6.3.

Old Standard:

Gravel (rock) ballast must be relatively free of fines and other foreign matter and shall contain gravel sizes between 19.0mm (3/4") and 38mm (1 1/2") in diameter.

New Standard:

Gravel (rock) ballast shall be relatively free of fines and other foreign matter, shall contain gravel sizes between 19.0mm (3/4") and 38mm (1 1/2") in diameter and shall conform to ASTM D7655 "Standard Classification for Size of Aggregate Used as Ballast for Membrane Roof Systems".

This change will be in effect for jobs bid after May 22nd, 2017. Changes will be referenced in the ARCA Roofing Application Standards Manual.