



August 10, 2016

Technical Bulletin TB-2016-06

ARCA Warranty Ltd. is pleased to announce that the following changes to the ARCA fifteen (15) Year Warranty have been reviewed and approved by the Board of Directors. These changes will be in effect for jobs bid on or after **October 1, 2016**.

FIFTEEN (15) YEAR WARRANTY REQUIREMENTS:

The following requirements shall be met for a project to be eligible for an ARCA Fifteen (15) Year Warranty Certificate.

1. Only commercial conventional uninsulated and insulated, new and replacement modified bitumen (MB), thermoset (EPDM) and thermoplastic (TPO/PVC) membrane systems are eligible.
2. Organic or inorganic built-up roofing (BUR), primary membrane replacements and residential roofing applications are not eligible for an ARCA 15 Year Warranty Certificate.
3. Completed primary membrane shall be exposed to view at all times, no overburden permitted. No membrane supported pavers, ballast or structures shall cover any portion of the primary membrane except for walkways and around roof mounted mechanical equipment.
4. All membrane manufacturer's must have been an ARCA manufacturer member for a minimum two years and have consistently met the annual minimum criteria of 500 squares of products installed on ARCA Warranty Certificate projects.
5. Roof areas containing photovoltaic installations are not eligible for an ARCA 15 Year Warranty Certificate.

Construction Requirements

The following construction requirements shall be met for a project to be eligible for an ARCA Fifteen (15) Year Warranty Certificate.

1. The roof shall be sub-divided into enclosed/self-contained membrane sections. Each section shall have ARCA accepted control joints anchored to the structural decking. Roof area dividers shall be spaced to ensure the enclosed membrane section does not exceed 1,859 m² (20,000 ft²) in area regardless of membrane type or system design.
2. Each self-contained roof area shall be independently drained using internal roof drains and plumbing systems. Water from an elevated roof cannot be discharged directly to a lower roof except where emergency overflow scuppers are required and may drain on to a lower roof when needed. Only new roof drains shall be installed, equal in size to existing roof drains on re-roof applications.
3. Enclosed roof membrane sections shall have positive drainage with a minimum slope of 1:50 (1/4" / ft. or 2%).
4. All existing roofing components shall be removed to expose the existing roof decking.
5. All existing membrane flashing shall be removed to expose the existing substrate or completely covered with an ARCA accepted substrate.
6. No stramit decks will be permitted.
7. A vapour retarder membrane is required.
8. An auxiliary leveling surface shall be installed on steel decks to support the vapour retarder.
9. Only new metal flashings are to be installed.
10. All membrane penetrations (except roof drains) shall be curbed and shall meet ARCA minimum height requirements.
11. Membrane protection shall be installed around all roof mounted mechanical equipment and walkways.



ARCA Roofing Application Standards Manual Revisions

I. Organic or inorganic built-up roofing is not eligible for an ARCA 15 Year Warranty Certificate.

Standards being removed:

BUR 1.5.3.

Stramit decks do not qualify for an ARCA 15 Year Warranty Certificate.

BUR 2.1.1.4.

To qualify for an ARCA 15 Year Warranty Certificate, new metal flashing shall be installed at all control joints.

BUR 2.2.5.

To qualify for an ARCA 15 Year Warranty Certificate, new metal flashing shall be installed at all perimeter edges.

BUR 2.3.1.3.

To qualify for an ARCA 15 Year Warranty Certificate:

1. All membrane penetrations except roof drains shall be curbed.
2. New metal flashing shall be installed at all roof penetrations.

BUR 2.3.5.8.

To qualify for an ARCA 15 Year Warranty Certificate, all membrane penetrations shall be curbed, no gum boxes permitted.

Standards being revised:

Existing BUR 2.3.3.1.

Plumbing vents penetrating the roofing system, that are not curbed, may be waterproofed with a lead flashing, a conical one piece aluminum flashing or a pre-approved specialty device designed for this purpose. (Refer to BUR 2.3.1.3.1 for ARCA 15 Year Warranty Certificate Requirements.)

New BUR 2.3.3.1.

Plumbing vents penetrating the roofing system, that are not curbed, may be waterproofed with a lead flashing, a conical one piece aluminum flashing or a pre-approved specialty device designed for this purpose.



Existing BUR 2.3.3.3.

Spun aluminum vent flashings, when not curb mounted, shall extend a minimum distance of 200 mm (8") above the primary membrane surface, and shall have a minimum of 100 mm (4") wide flange. The flange shall be set in a bed of plastic cement and the top surface cleaned and primed to ensure proper adhesion of the membrane flashing. (Refer to BUR 2.3.1.3.1 for ARCA 15 Year Warranty Certificate Requirements.)

New BUR 2.3.3.3.

Spun aluminum vent flashings, when not curb mounted, shall extend a minimum distance of 200 mm (8") above the primary membrane surface, and shall have a minimum of 100 mm (4") wide flange. The flange shall be set in a bed of plastic cement and the top surface cleaned and primed to ensure proper adhesion of the membrane flashing.

II. Roof areas containing photovoltaic installations.

New Standards

MB 6.5.7.

Roof areas containing photovoltaic installations are not eligible for an ARCA 15 Year Warranty Certificate.

EPDM 6.7.7.

Roof areas containing photovoltaic installations are not eligible for an ARCA 15 Year Warranty Certificate.

TP 6.6.7.

Roof areas containing photovoltaic installations are not eligible for an ARCA 15 Year Warranty Certificate.



III. Roof shall be sub-divided into enclosed / self-contained membrane sections.

Standard being revised:

Existing MB 2.1.3.7.

To qualify for an ARCA 15 Year Warranty Certificate, roof area dividers shall be installed so that the maximum dimension of the membrane does not exceed 46.0 m (150 ft) and shall be spaced so that the enclosed membrane section area does not exceed approximately 1394 sq. m (15,000 sq. ft)

New MB 2.1.3.7.

To qualify for an ARCA 15 Year Warranty Certificate, roof area dividers shall be so that the enclosed membrane section area does not exceed approximately 1,859 sq. m (20,000 sq. ft)

Existing EPDM 2.1.3.7.

To qualify for an ARCA 15 Year Warranty Certificate, roof area dividers shall be installed so that the maximum dimension of the membrane does not exceed 46.0 m (150 ft) and shall be spaced so that the enclosed membrane section area does not exceed approximately 1394 sq. m (15,000 sq. ft).

New EPDM 2.1.3.7.

To qualify for an ARCA 15 Year Warranty Certificate, roof area dividers shall be so that the enclosed membrane section area does not exceed approximately 1,859 sq. m (20,000 sq. ft).

Existing TP 2.1.3.7.

To qualify for an ARCA 15 Year Warranty Certificate, roof area dividers shall be installed so that the maximum dimension of the membrane does not exceed 46.0 m (150 ft) and shall be spaced so that the enclosed membrane section area does not exceed approximately 1394 sq. m (15,000 sq. ft).

New TP 2.1.3.7.

To qualify for an ARCA 15 Year Warranty Certificate, roof area dividers shall be so that the enclosed membrane section area does not exceed approximately 1,859 sq. m (20,000 sq. ft).



IV. Roof areas drainage requirements.

New Standards

MB 2.4.1.3.

To qualify for an ARCA 15 Year Warranty Certificate, each self-contained roof area shall be independently drained using internal roof drains and plumbing systems. Water from an elevated roof shall not be discharged directly to a lower roof except where emergency scuppers are required.

MB 10.1.13.

To qualify for an ARCA 15 Year Warranty Certificate, only new drains shall be installed equal in size to existing roof drains.

EPDM 2.4.1.4.

To qualify for an ARCA 15 Year Warranty Certificate, each self-contained roof area shall be independently drained using internal roof drains and plumbing systems. Water from an elevated roof shall not be discharged directly to a lower roof except where emergency scuppers are required.

EPDM 10.1.12.

To qualify for an ARCA 15 Year Warranty Certificate, only new drains shall be installed equal in size to existing roof drains.

TP 2.4.1.4.

To qualify for an ARCA 15 Year Warranty Certificate, each self-contained roof area shall be independently drained using internal roof drains and plumbing systems. Water from an elevated roof shall not be discharged directly to a lower roof except where emergency scuppers are required.

TP 10.1.12.

To qualify for an ARCA 15 Year Warranty Certificate, only new drains shall be installed equal in size to existing roof drains.

V. Minimum roof area slope.

New Standards

MB 6.2.2.6.

To qualify for an ARCA 15 Year Warranty Certificate, each self-contained roof area shall have positive drainage with a minimum slope of 1:50 (2%).

EPDM 6.2.2.6.

To qualify for an ARCA 15 Year Warranty Certificate, each self-contained roof area shall have positive drainage with a minimum slope of 1:50 (2%).

TP 6.2.2.7.

To qualify for an ARCA 15 Year Warranty Certificate, each self-contained roof area shall have positive drainage with a minimum slope of 1:50 (2%).



VI. Requirement of auxiliary leveling surface on steel decks.

New Standards

MB 3.2.3.3.

To qualify for an ARCA 15 Year Warranty Certificate, a minimum 12.7mm (1/2") glass faced gypsum auxiliary leveling surface shall be mechanically fastened to the structural steel deck.

EPDM 3.2.2.4.2.

To qualify for an ARCA 15 Year Warranty Certificate, a minimum 12.7mm (1/2") glass faced gypsum auxiliary leveling surface shall be mechanically fastened to the structural steel deck.

TP 3.2.2.4.2.

To qualify for an ARCA 15 Year Warranty Certificate, a minimum 12.7mm (1/2") glass faced gypsum auxiliary leveling surface shall be mechanically fastened to the structural steel deck.

VII. Membrane protection requirement.

New Standards

MB 6.5.8.

To qualify for an ARCA 15 Year Warranty Certificate, membrane protection shall be installed around all roof mounted mechanical equipment and walkways.

EPDM 6.7.8.

To qualify for an ARCA 15 Year Warranty Certificate, membrane protection shall be installed around all roof mounted mechanical equipment and walkways.

TP 6.6.8.

To qualify for an ARCA 15 Year Warranty Certificate, membrane protection shall be installed around all roof mounted mechanical equipment and walkways.

VIII. Vapour Retarder requirement.

New Standards

MB 4.1.5.

To qualify for an ARCA 15 Year Warranty Certificate, a fully adhered vapour retarder is required.

EPDM 4.1.4.

To qualify for an ARCA 15 Year Warranty Certificate, a fully adhered vapour retarder is required.

TP 4.1.4.

To qualify for an ARCA 15 Year Warranty Certificate, a fully adhered vapour retarder is required.



IX. Primary Insulation requirement.

New Standards

MB 5.3.6.

To qualify for an ARCA 15 Year Warranty Certificate, each roof assembly shall consist of a minimum of two layers of primary insulation with a minimum thickness of 38mm (1 ½”) for each layer. The first layer of insulation shall be mechanically fastened to the structural decking. Additional layers of insulation shall be either mechanically fastened or adhered using an ARCA approved adhesive.

MB 5.3.7.

To qualify for an ARCA 15 Year Warranty Certificate, the top layer of insulation shall be a minimum 38mm (1 ½”) ARCA approved polyisocyanurate insulation meeting CAN/ULC S-704 Type 2, Class 3.

EPDM 5.2.8.

To qualify for an ARCA 15 Year Warranty Certificate, each roof assembly shall consist of a minimum of two layers of primary insulation with a minimum thickness of 38mm (1 ½”) for each layer. The first layer of insulation shall be mechanically fastened to the structural decking. Additional layers of insulation shall be either mechanically fastened or adhered using an ARCA approved adhesive.

EPDM 5.2.9.

To qualify for an ARCA 15 Year Warranty Certificate, the top layer of insulation shall be a minimum 38mm (1 ½”) ARCA approved polyisocyanurate insulation meeting CAN/ULC S-704 Type 2, Class 3.

TP 5.2.7.

To qualify for an ARCA 15 Year Warranty Certificate, each roof assembly shall consist of a minimum of two layers of primary insulation with a minimum thickness of 38mm (1 ½”) for each layer. The first layer of insulation shall be mechanically fastened to the structural decking. Additional layers of insulation shall be either mechanically fastened or adhered using an ARCA approved adhesive.

TP 5.2.8.

To qualify for an ARCA 15 Year Warranty Certificate, the top layer of insulation shall be a minimum 38mm (1 ½”) ARCA approved polyisocyanurate insulation meeting CAN/ULC S-704 Type 2, Class 3.