

February 11, 2022

# Technical Bulletin TB-2022-01

## I. Revised Third-Party References – Metal Roofing.

On January 26, 2022 ARCA Warranty Ltd. approved updated third-party references within the Metal Roofing (MR) Application Standards. These standards included;

- National Building Code of Canada – Alberta Edition (NBC-AE),
- CSA S136 “North American specification for the design of cold-formed steel structural members”,
- ASTM E96/E96M “Standard Test Methods for Water Vapor Transmission of Materials”,
- ASTM A653/A653M “Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process”,
- ASTM A792/A792M “Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process”, and
- ASTM B86 “Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings”.

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

## II. Revised EPDM Standards.

On January 26, 2022 ARCA Warranty Ltd. approved the following revisions to the Thermoset (EPDM) Application Standards.

### EPDM 5.4.1.1

The insulation shall be covered with an approved coverboard for adhered and mechanically fastened EPDM membranes.

### EPDM 6.2.5.1

Temporary roofing – has been deleted.

### EPDM 6.4.1.4

Continuous perimeter membrane securement shall be installed along roof perimeter and roof penetrations mechanically fastened to the vertical or horizontal substrate and at roof slope elevation changes exceeding 1:6 (16.7%) as recommended by the membrane manufacturer. Roof penetrations may act as membrane securement.

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

### III. Revised Roof Terrace Standard.

On January 26, 2022 ARCA Warranty Ltd. approved the following revisions for weight recommendations for Roof Terraces.

MB 6.6.2      TP 6.8.2      EPDM 6.7.2  
MB 9.8.2      TP 9.8.2

#### **Existing Standards**

##### Section 6 – Membranes

The designer must take into consideration the compressive strength of the underlying materials to prevent damage to the insulation and roofing membrane from point loads and concentrated loads in excess of 113kg. (250 lbs.) which may exceed design limits. It is recommended that an ARCA approved HD coverboard is installed under the membrane for additional protection.

##### Section 9 – Protected Membranes

The designer must take into consideration the compressive strength of the underlying materials to prevent damage to the insulation and roofing membrane from point loads and concentrated loads in excess of 113kg. (250 lbs.) which may exceed design limits.

#### **New Standards:**

##### Section 6 – Membranes

The designer must take into consideration the compressive strength of the underlying materials to prevent damage to the insulation and roofing membrane from concentrated loads exceeding 91kg (200 lbs.) in mass or when roof point loads exceed 5 kPa (105 PSF) which may exceed design limits. It is recommended that an ARCA approved HD coverboard is installed under the membrane for additional protection.

##### Section 9 – Protected Membranes

The designer must take into consideration the compressive strength of the underlying materials to prevent damage to the insulation and roofing membrane from concentrated loads exceeding 91kg (200 lbs.) in mass or when roof point loads exceed 5 kPa (105 PSF) which may exceed design limits.

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