



ARCA Warranty Ltd.

2380 Pegasus Road N.E., Calgary, Alberta T2E 8G8
1-800-382-8515 Toll Free

Telephone (403) 250-7055 Calgary Exchange
(403) 250-1702 Fax

September 27, 2007

Technical Bulletin

Changes to Minimum Requirements

The following changes to the application standards, approved by the ARCA Warranty Ltd. Board, have been incorporated into their appropriate on-line Good Roofing Practice (G.R.P.) Manual sections on September 26, 2007:

1) LOW-SLOPE ROOFING SECTION

a) Re-Roofing over Hot Rubberized Asphalt Protected Membranes

When re-roofing, an existing hot rubberized asphalt protected membrane may remain in place and serve as the substrate for the attachment of a compatible vapour barrier or protected membrane design provided that the existing hot rubberized asphalt membrane is prepared by removing any damaged or deteriorated material, cleaned and primed with a compatible primer.

Implementation of this application standard is to complement the current modified bitumen re-roofing requirement permitting existing modified bitumen protected membranes to remain in place, when properly prepared, to serve as the substrate for the attachment of a compatible vapour barrier or protected membrane design.

b) Sheet Steel Corrosion in Contact with Non-CCA Wood Preservatives

A potential for deck corrosion exists when non-CCA types of treated wood products come in direct contact with sheet steel.

A Steel Deck Institute's Position Statement dated August 2006 advises of the potential for the corrosion of sheet steel products when in direct contact with wood products treated with ACQ (Alkaline Copper Quat) or CA-A or CA-B (Copper-azole) wood preservatives. The Steel Deck Institute recommends a barrier comprised of a modified bituminous membrane be installed between pressure treated lumber and steel deck products or accessories.

c) **Excessive Ballast Mass for Protected Membrane Designs**

The design parameters of the roof structure must include the weight of the newly installed ballasted roofing system. The structure must be capable of supporting the weight of the roofing system plus the specified ballast without encroaching on the necessary live load and without creating or aggravating water ponding problems. A design professional should be consulted to certify that the structural system will support these loads.

The above wording, taken from the Single Ply Roofing Institute (S.P.R.I.) website, has been added to the ballast clause of the Protected Membrane & Combination Designs sections for each division of the Low-slope Roofing manual. The previous ballast application standards were silent on maximum ballast mass and only provided recommendations for minimum ballast mass.

d) **Building Products' New Fiberboard Roof Insulator**

Building Products of Canada's new 12.7mm thick Esgard Fibre Board Wax roof insulation has been approved as an accepted roof insulation for issuance of the Low-Slope Roofing five (5) year Certificate of Assurance.

This is a new BP fiberboard roof insulation developed with an asphalt treatment process that impregnates the board with an asphalt emulsion to reduce asphalt absorption and improve membrane adhesion. The new fiberboard complies with the CAN/ULC S-706 standard and carries C.C.M.C. evaluation #03250-L. This insulation will be available in Alberta no later than January 2008 and is being manufactured in BP's Ponte Rouge facility located in Quebec.

2) **STEEP-SLOPE ROOFING SECTION**

a) **Asphalt Shingle Application Standards for Slopes Less Than 4:12**

Low-Slope asphalt shingles are no longer manufactured in Alberta necessitating the deletion of the above referenced G.R.P. steep-slope application standard for low-slope asphalt shingle applications less than 4:12 (1:3) to 2:12 (1:6). ARCA Warranty Ltd. does not support the use of the modified low-slope shingle application method employing underlayment membranes beneath conventional asphalt shingles.

ARCA Warranty Ltd.'s five (5) year Steep-Slope Roofing Certificate of Assurance is only available for asphalt shingle applications 4:12 and greater.