



SRO 842 Waterproofing Specification – Roof or Deck ARDEX Single Ply (TPO) Sheet Roofing Membrane

Scope

Single layer roofing membranes are applied to approved substrates to achieve a continuous membrane barrier against water penetration in exposed roof situations. This membrane system can be used over the nominated ARDEX Insulation Boards if required.

Applications

Single ply sheet membranes are suitable for use as the exposed finish when fully exposed to all climatic conditions in situations such as

- Roof and exposed deck areas – light foot traffic only

Substrates

Suitable substrates for these thermoplastic polyolefin sheet membrane systems include

- Concrete
- Compressed fibre cement sheeting
- Engineered timber sheeting (e.g. approved plywood)
- Steel with insulation board such as [ARDEX Polyiso Board](#) or [ARDEX HD Cover board](#)

Substrate Preparation

Substrates to which the single ply membrane is to be applied must be structurally sound and free of all contaminants (e.g. laitance, form release agents). Contaminants are best removed, and smooth steel trowel finished concrete scarified by mechanical methods to achieve an open pored surface with a fine profile. The substrates should have completed the recommended minimum curing/drying periods (e.g. 28 days for concrete) with all holes/voids filled with a cement based patching mortar (e.g. [ARDEX A 46](#) or [ARDEX BR 345](#) system) and all surface protrusions ground flat.

Damp concrete substrates shall be primed with ARDEX WPM300 applied at not more than 3 sqm per litre per coat. Allow the prime coat to dry overnight prior to proceeding.

Timber substrates shall be clean, dry and free of surface coatings. Timber treated with Light Organic Solvent Preservative (LOSP) preservative should not to be used.

Where the ARDEX insulation boards are to be installed, care must be taken to ensure the boards are neatly fitted around all penetrations, projections and fittings.

Ensure all drainage wastes are fitted with suitable flanges/bowls/clamp rings into which the sheet membrane can be securely terminated.

Sheet Membranes

ARDEX single layer sheet membranes include;

- [ARDEX WPM 615](#) Thermoplastic Polyolefin (TPO) available in WHITE only



Membrane Installation

[ARDEX WPM 615](#) may be installed by adhesive fixing to prepared substrates; or by mechanically fixing to prepared substrates; or by loose laying over prepared substrates with ballast and/or landscaping cover materials to hold it in place.

Details of the fixing methods for this membrane can be provided by ARDEX upon request with the installation to be completed by accredited installers only.

The ARDEX Insulation boards are mechanically fixed to the roof substrate prior to the installation of adhered or mechanically fixed [ARDEX WPM 615](#) single ply roof membrane. The fixing system must be using ARDEX approved adhesives and/or fasteners.

ARDEX Polyiso Board is suitable for adhered, ballasted and mechanically fixed [ARDEX WPM 615](#) membrane installations.

ARDEX HD Cover board is suitable for application over existing roof surfaces, including contaminated surfaces, prior to the installation of the adhered and/or mechanically fixed [ARDEX WPM 615](#) membrane. The [ARDEX HD Cover Board](#) must not be used under ballasted roof membranes.

For further information regarding the insulating performance of these boards, and for the fixing method suitable for the project, please contact ARDEX Technical Services.

Note: the ARDEX WPM615 Sheet membrane is not compatible with tile adhesives.

Disclaimer:

The recommendation selected is based upon questions answered on the ARDEX Australia website. This recommendation is designed as a general application for your described situation and should not be considered site specific documentation for general distribution. Always consult the latest relevant ARDEX Technical Bulletins and information on the product packaging and/or product data sheets (available on the ARDEX Website). Australian and other relevant standards should be followed during installation. If you have any further questions or would like further clarification please contact the ARDEX Technical Services Hotline on 1800 224 070 (9am to 5pm Monday to Friday).