



SRO 835 Waterproofing Specification –Retaining Walls Single Layer Self-Adhesive Bituminous Sheet Membrane – Protected

Scope

Single layer, self-adhesive bituminous membrane system applied in sheets to approved substrates to form a fully bonded, protected continuous barrier against water penetration.

Applications

This single layer membrane system is suitable for situations where the likelihood of water penetration is low such as;

- On the positive side of retaining walls not in a permanent water table
- Below grade basement walls not in a permanent water table

Substrates

Suitable substrates for this membrane system include:-

- Concrete
- Masonry (concrete block) walls – core filled including reinforcement
- Brick walls with render smoothing finish

Substrate Preparation

Substrates to which the bituminous sheet membrane are to be applied must be structurally sound and free of all contaminants (e.g. Curing Compounds, Paints etc). The substrates must have completed the recommended minimum curing/drying periods (e.g. 28 days for concrete) with all holes/voids filled with cement based patching mortars (e.g. [ARDEX A 46](#) or [ARDEX BR 345](#) system) and all surface protrusions ground flat. All internal corners are to be shaped with a cement based coving fillet (minimum 50 x 50mm).

Membrane Systems

- [ARDEX WPM 3000X](#) Self Adhesive bituminous sheet membrane

Priming

- Prime all prepared substrates with [ARDEX WPM 240](#) Bituminous primer and let dry.

Membrane Installation (Self-Adhesive sheet membrane)

- Cut the sheet to a length suitable for the job. Note the self-adhesive sheets have been marked to show the correct overlap on one side, this side is to be placed where it will be covered by the next sheet
- The membrane installation begins at the bottom of walls although each section of sheet membrane is placed so that it can hang during the installation process
- Remove the paper cover sheet from the top edge of the sheet and place in position on the surface. Check the sheet will hang in the correct position and carefully remove the paper facing while pressing the sheet onto the surface
- Carefully smooth the surface to remove air bubbles as the sheet is adhered to the surface from the top down



Once the bituminous sheet membrane has been applied, the top edge termination of the membrane shall be secured one of the following systems;

- [ARDEX Pressure Seal](#) mechanically fixed in position including a suitable sealant to the top edge (e.g. [ARDEX ST Silicone](#) or [ARDEX RA 040 Polyurethane](#))
- Liquid applied flashing such as the [ARDEX WPM 179](#) Bituminous latex

Protection

The bituminous sheet membrane must be protected from sunlight and mechanical damage by covering with suitable protective materials such as;

- Corflute protection board prior to backfilling
- 5mm geotextile fabric prior to backfilling
- Approved proprietary drainage cell systems with geotextile wrapping

Note: this 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).