



ARDEX WPM 612

Flexible TPO Roofing Membrane

Heat-weldable Thermoplastic Polyolefin roofing membrane for low-slope applications

Lightweight with superior flexibility

High energy and heat efficiency

No plasticisers or chlorinated ingredients

1.14mm thickness



BRANZ Appraised
Appraisal No.728 [2017]

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Flexible TPO Roofing Membrane

DESCRIPTION

ARDEX WPM 612 is a flexible Thermoplastic PolyOlefin roofing membrane made from the incorporation of a ethylene propylene rubber into a polypropylene matrix and produced with a polyester weft inserted reinforcement.

USE

ARDEX WPM 612 is suitable for a variety of low-slope roofing applications.

SUBSTRATE PREPARATION

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm wide shall be properly filled with an acceptable fill material.

Refer to the relevant ARDEX Substrate Specification document for further information.

APPLICATION

Place the TPO as close as possible to its final position. Inspect the wrapper and TPO roll for damage before and during the installation. Unroll the TPO membrane and prior to any attachment, cutting or welding, allow each panel to relax a minimum of 30 minutes. Cut a cross-shaped opening above every drain to evacuate excess ponding water, in case of sudden rainfall.

The TPO panels shall be installed in a fashion so that field and flashing splices are installed to shed water. Straight cuts are very important for a neat and easy application.

Allow ample material for splicing determined by the type of seam and tie-ins.

Temporary ballasting during installation may be required to keep the membrane in place until it is secured to the substrate. Suggested temporary ballasting includes sand bags and other non-abrasive materials such as rubber tires, etc. Never leave the project without temporary ballasting loose laid sheets.

COVERAGE

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (75 mm for standard seams – 150 mm for seams with mechanical anchoring in the seam) and upstands. Provide an additional length (150 mm) at upstands for easy manipulation.

PACKAGING

ARDEX WPM 612 comes in rolls of 3.05m x 30.5m x 1.14mm.

STORAGE

ARDEX WPM 612 has an indefinite shelf life when stored in good conditions, between 5°C and 30°C. Store rolls horizontally in dry conditions out of direct sunlight. Store away from sources of puncture and physical damage. Store

away from ignition sources and open flame.

PRECAUTIONS

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

Contact ARDEX Technical Services Department for specific recommendations regarding chemical or waste product compatibility with ARDEX WPM 612.

For further information, please consult the latest Safety Data Sheet.

TECHNICAL CHARACTERISTICS

Property	Test Method	Typical Value
Watertightness	EN 1928 (A)	Pass
Tensile Strength (both directions)	EN 12311-2	≥ 800 MPa
Elongation at reinforcement break	EN 12311-2	≥ 20%
Resistance to static loading (EPS & concrete)	EN 12730 (B)	≥ 25 kg
Resistance to impact (EPS & concrete)	EN 12691	≥ 10 mm
Tear resistance L/T	EN 12310-2	≥ 400 / 400 N
Joint peel resistance	EN 12316-2	≥ 100 N/50 mm
Joint shear resistance	EN 12317-2	≥ 800 N/50 mm
UV exposure	EN 1297	Pass
Foldability at low temperature	EN 495-5	≥ -45°C
External fire performance	EN 13501-5	BROOF(t1)
Reaction to fire	EN 13501-1	E
Root resistance	EN 13948	Pass

Toll Free Technical Services:
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