



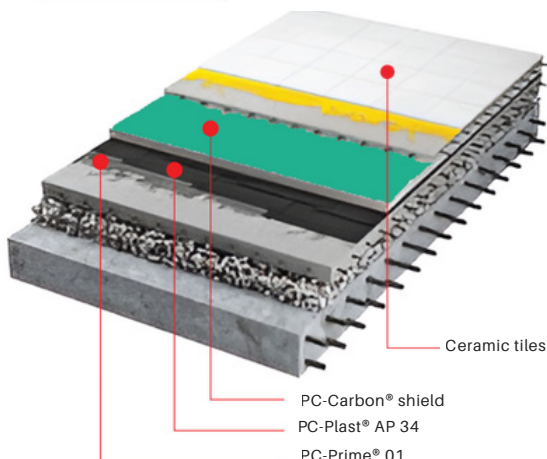
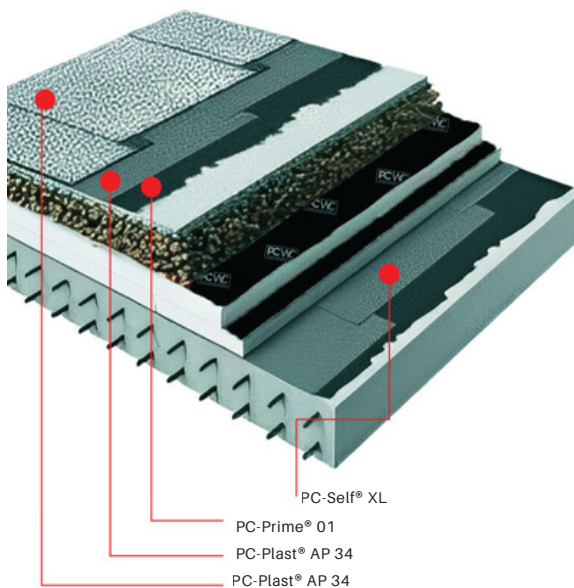
PC-Plast® AP 34

Torch applied waterproofing membrane

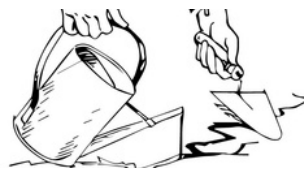
The **PC-Plast® AP 34** APP-modified bitumen membrane is meticulously designed for the foundational layer within a dual-layer roofing system, catering to a diverse range of buildings and structures. Its primary function is to provide waterproofing for foundations and engineering structures, serving as an ideal substrate for bitumen shingles on pitched roofs in both new construction and renovation projects. This material exhibits exceptional resilience to temperature fluctuations and significant mechanical stress, ensuring long-lasting, reliable, and effective waterproofing. The incorporation of APP polymer enhances its resistance to deformation, making it particularly suitable for use in warmer climates. Additionally, the underside is safeguarded by a polymer film featuring distinct graphic elements that melt upon reaching the appropriate temperature during application, while the top surface is similarly protected by a polymer film.

GENERAL REQUIREMENTS:

- Ensure that rolls of the material are stored indoors in a dry environment, maintaining them in their original packaging until transportation to the construction site is necessary.
- Store the rolls vertically to prevent stacking pallets.
- Adequately prepare the application surface by removing any dust, debris, grease, leaves, or oil, and meticulously inspect for gaps, cracks, or irregularities that may hinder proper membrane adhesion.
- Prior to installing the waterproofing material, apply a primer to the surface to optimize adhesion.



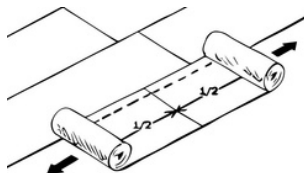
INSTALLATION



Thoroughly clean the surface and rectify any gaps or cracks. Verify that it is both level and dry before proceeding.



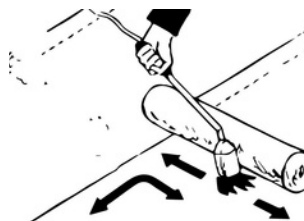
Apply a bitumen primer to the surface to improve the adhesion of the bitumen membrane.



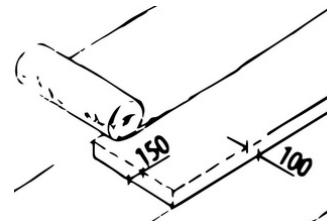
Roll out the membranes, align them, and proceed to roll them tightly from both ends toward the center.



Heat both the base and underside of the material simultaneously to induce a slight flow of bitumen.



Heat the material and the base evenly across the entire width of the roll, applying extra heat to any overlapping sections.



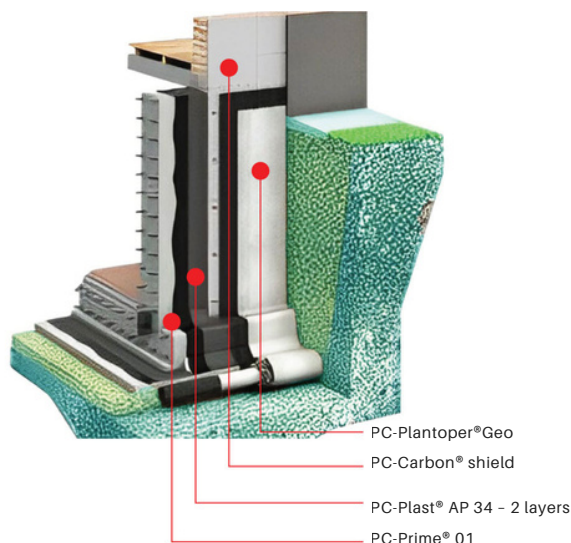
Longitudinal overlaps should measure 100 mm, with end overlaps requiring a minimum of 150 mm.

THICKNESS

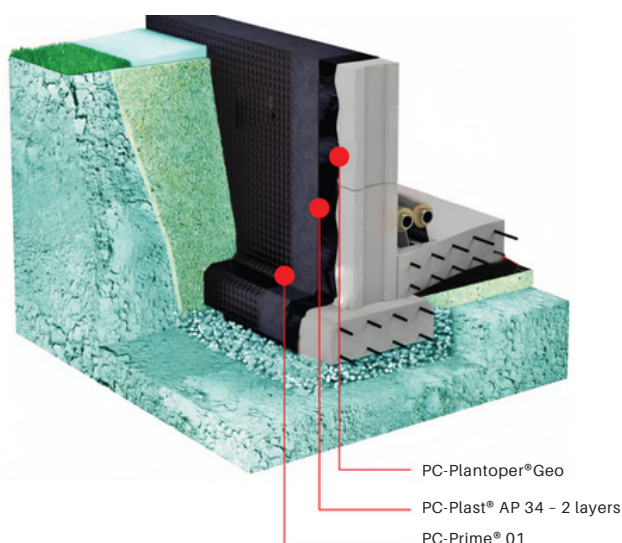
3 mm

SYSTEM SOLUTIONS

FOUNDATION WITH THERMAL INSULATION



FOUNDATION WITHOUT THERMAL INSULATION



DECLARED PERFORMANCE

Essential characteristics	Test Method	Performance	Essential characteristics	Test method	Performance
Protection of the top side	-	polymer film	Softening point, °C	ASTM D36	≥+145
Protection of the bottom side	-	polymer film	Flexibility at low temperature, °C	EN 1109-1	≤-2
Length, m	EN 1848-1	≥15.0 (2 mm thick) ≥10.0 (3 mm thick) ≥10.0 (4 mm thick)	Flow resistance at elevated temperature, °C	EN 1110	≥+120
Width, m	EN 1848-1	≥1.0	Watertightness at 0.1 MPa for 24 hours	EN 1928	Pass
Straightness	EN 1848-1	≤10 mm / 5 m	External fire performance	EN 13501-5	NPD
Mass per unit area, kg/m ²	EN 1849-1	2.8±0.28 3.8±0.38 5.1±0.48	Reaction to fire	EN 13501-1	Euroclass E
Thickness, mm	EN 1849-1	2.0±0.20 3.0±0.20 4.0±0.20	Dimensional stability, %	ASTM D5147	1.0
Type of carrier	-	polyester	Adhesion of granules, %	EN 12039	1.0
Tensile properties: maximum tensile force L / T, N/50mm	ASTM D5147	750±150 / 600±120	Visible defects	EN 1850-1	pass
Tensile properties: elongation L / T, %	ASTM D5147	40±8 / 45±9	Water vapor transmission properties	EN 1931	μ=20000
Tear resistance L / T, N	ASTM D4073	300±100 / 300±100	Dangerous substances	Does not contain dangerous substances	Does not contain dangerous substances

Footnotes: L / T - Longitudinal / Transverse; NPD - No Performance Determined.

Shelf life if all storage requirements are met: 12 months from the date of production.

All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our [website www.pc-wc.com](http://www.pc-wc.com)

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TDS/PC-PLAST® AP 34/20