

TECHNICAL DATA SHEET

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Product Name: **POLY-ELAST PV 250 S5**
Torch-Applied, Polymer Modified Bituminous Cap Sheet

Product Code: TN687009

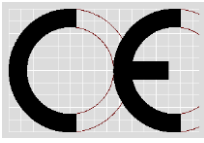
Roll Dimensions: 5 x 1.00 m

Weight: 7.2 kg/m²

Product description: POLY-ELAST PV 250 S5 is a torch-applied, bituminous cap sheet which is saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. It has a 250g/m² polyester fleece reinforcement, a thermofusible polyethylene film on the underside and has a slate surfaced finish. The product also incorporates a special graphite additive within the coating to provide exceptional fire protection properties, and has been fully fire tested as part of a designated system in accordance with EN 13501-5 and DD CEN/TS 1187:2012, Broof Test 4.

Product use: POLY-ELAST PV 250 S5 is designed for use as a high performance cap sheet, and can be used as the final waterproofing layer on a variety of built-up roofing systems (e.g. Torch-Hybrid and full Torch-On specifications). The product is compatible with all common bituminous underlay membranes.

Properties	Test Method	Unit	Declared Performance
Length	DIN EN 1848-1	m	≥ 5.00
Width	DIN EN 1848-1	m	≥ 1.00
Straightness	DIN EN 1848-1	mm/10 m	≤ 20
Mass per unit area	DIN EN 1849-1	kg/m ²	7.2 (± 5%)
Thickness	DIN EN 1849-1	mm	5.20 (± 0.2)
Water tightness	DIN EN 1928 Method B	-	passed
Tensile properties: maximum tensile force	DIN EN 12311-1	N	≥ 800 / 800
Tensile properties: elongation	DIN EN 12311-1	%	4 (± 2 abs)
Dimensional stability	DIN EN 1107-1	%	≥ 35 /35
Flexibility at low temperatures	DIN EN 1109	°C	≤ - 25
Flow resistance at elevated temperatures	DIN EN 12311-1	°C	≥ +100
External fire performance	Fire tested as part of a system in accordance with EN 13501-5 and		



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Properties	Test Method	Unit	Declared Performance
	DD CEN/TS 1187:2012, Broof Test 4 as certified by Warringtonfire*		
Reaction to fire	DIN EN 11925-2	-	Class E according to DIN EN 13501-1

*As outlined in Warringtonfire Classification Report Nos. 19901D & 19901H

Features & benefits:

- Torch-on application
- Incorporates graphite technology which actively prevents spread of flames on roof
- Excellent low temperature flexibility at -25°C
- SBS modified bitumen
- Tough 250gsm polyester reinforcement
- Tested as part of a system to achieve Broof Test 4 fire classification as certified by Warringtonfire
- BBA Approved - Certificate No: 21/5879

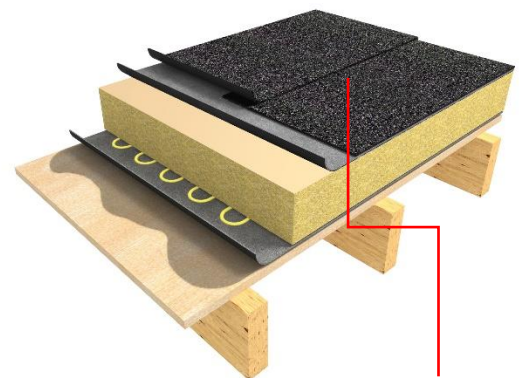


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Application Overview:

POLY-ELAST PV 250 S5 should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217: 2005 – the code of practice for reinforced bitumen membranes for roofing.

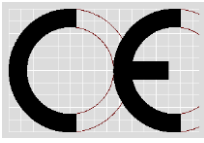
Roofing contractors should also be fully conversant with the guidelines set out in the National Federation of Roofing Contractors (NFRC) 'Safe2Torch' campaign. All operatives using torch guns or hot air guns during installation should be competent, conversant and capable of using such items in a safe and responsible manner. Care must also be taken when using torches and hot air guns in close proximity to combustible materials, decorative coatings and heat sensitive materials.



POLY-ELAST PV 250 S5

In order to install the POLY-ELAST PV 250 S5 membrane correctly, ensure that the surface is dry, free of oil, fat and dust and other impurities. When setting out the field area, rolls should always be laid in the same direction. Side lap width should be at least 8 cm with end laps of at least 10 cm. A minimum 5 cm link with the waterproofing layers at all detailing and upstand abutments must also be achieved, with the completed detailing entirely encapsulating the insulation.

The POLY-ELAST PV 250 S5 membrane must be fully bonded to the prepared substrate by using the torch-on application method, ensuring that a constant flow of bitumen is maintained across the whole width of the roll and that a continuous bead of bitumen (5-15 mm) is exuded from all side and end laps to demonstrate that a good seal has been achieved. The lower surface has a thermofusible film which rapidly melts during the torching operation. When addressing an angle where the membrane will change from a horizontal to a vertical configuration, press the product firmly into place and ensure that a full bond is achieved throughout the detail. NB: The granule colour may vary during its useful life due to the effect of the weather and other outside agents.



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Chemical Resistance:

POLY-ELAST PV 250 S5 is water-resistant and is resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons, as well as chlorine hydrocarbons, oils and greases may loosen the product and should therefore be avoided.

Storage:

Store in a cool, dry place and protect from direct sunlight

Health & Safety:

Health and Safety should be observed at all times in accordance with HSE and industry guidance. Specific Risk Assessments and Method Statements should be produced by contractors where necessary to ensure Working at Heights, Fire Safety and Manual Handling rules are compliant with current law and regulations. Health and safety data sheets are available for all materials on request from Technical Service Department.

Quality Assurance:

POLY-ELAST PV 250 S5 is manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.