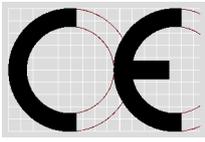


Product name:	<b>ELMO-Flex 4K</b> Elastic polymer bitumen torch-on membrane
Product code:	10630
Product standard:	EN 13707 EN 13969
Roll dimensions:	5.00 x 1.00 m
Protective coating: upper side bottom side	Slate Fleece
Reinforcement:	Polyester compound
Product description:	Characteristics and requirements of polymer bitumen torch-on membrane with combined reinforcement as a top layer of roof insulation or as a single layer roof insulation. It also can be used to seal buildings against rising damp and water.
Product use:	<p>ELMO-Flex 4K is an elastomer polymer bitumen torch-on membrane with a compound reinforcement. It consists of a combination of synthetic, rubber and bitumen with modifying and stabilising additives to ensure a high resilience together with a good recovery after deformation.</p> <p>Within the flat roof layered system ELMO-Flex 4K is used on any angle as a premium insulation layer. Together with other polymer bitumen membranes or bitumen underlay membranes it mostly serves as a cap sheet according to EN 18531. Furthermore, ELMO-Flex 4K can serve as a single roof insulation layer on a lightweight roof structure with a slope of at least 2%.</p> <p>Due to an additional graphite component ELMO-Flex 4K with compound reinforcement possesses fire retardant characteristics that can significantly improve the fire protection requirements.</p>

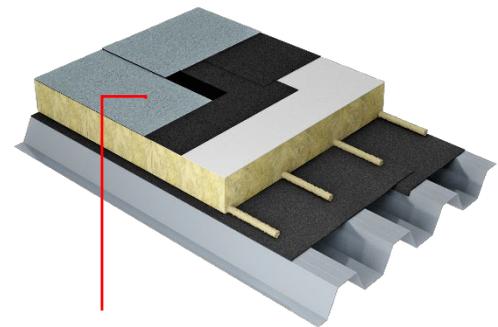
Properties	Test method	Unit	Declared performance
Visible defects	EN 1850-1	-	no visible defects
Length	EN 1848-1	m	≥ 5.00
Width	EN 1848-1	m	≥ 1.00
Straightness	EN 1848-1	mm/10 m	≤ 20



Properties	Test method	Unit	Declared performance
Mass per unit area	EN 1849-1	kg/m <sup>2</sup>	unverifiable result
Thickness	EN 1849-1	mm	≥ 4.50
Water tightness at 200 kPa	EN 1928 Method B	-	passed
Tensile properties: maximum tensile force	EN 12311-1	N	1000 / 1000 (+10 %)
Tensile properties: elongation	EN 12311-1	%	30 / 30 (± 5)
Flexibility at low temperatures	EN 1109	°C	≤ - 35
Flow resistance at elevated temperatures	EN 12311-1	°C	≥ +120
Reaction to fire	EN 11925-2	-	Class E according to DIN EN 13501-1
Dimensional stability	EN 1107-1	%	≤ 0.3
External fire performance	CEN/TS 1187	-	Broof (t1), (t4) (see tested system)

**Features & benefits:**

- Universal application – torch-on / adhered / mechanically fastened to suitable substrates
- Provides a completely flame-free waterproofing solution where required
- Incorporates graphite technology, actively preventing spread of flames on roof
- Robust single layer solution
- Exceptional low temperature flexibility at -35°C

**ELMO-Flex 4K****Application Overview:**

ELMO-Flex 4K 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.

Within a multiple layered flat roof system, the membrane is completely torched-on.

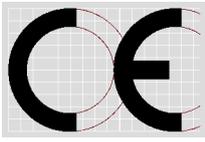
With a single layered system the membrane as a loose applied system with mechanical fixing can be torched-on to additional fixing stripes or directly mechanically fixed onto the substructure. The joint overlap is approximately 12 cm. Loose laying or mechanical fixing of the membrane as well as spots or stripes of heating/adhesion on the surface followed by heating/adhesion of the joint overlaps can cause corrugation if the outside temperature and/or surface temperature are too low.

Please note that the colour of the granules can vary during their useful life due to the effect of weather and other outside agents.

**Chemical resistance:**

ELMO-Flex 4K is water-resistant as well as resistant to watery solutions of salt, diluted non-oxidising acids and bases.

Aliphatic and aromatic hydrocarbons as well as chlorine hydrocarbons, oils and greases loosen ELMO-Flex 4K.



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### Storage:

Store upright 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 GEORG BÖRNER Technical Service Department.

### Certification number:

1724 - CPD - 041101

1724 - CPD – 041201