

DECLARATION OF PERFORMANCE

No. 004-02-CPR-2013-12-19

1. Unique identification code of the product-type:

**Product elastomeric
modified reinforced bitumen sheet Technoelast K-MS 170/3000**

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

Technoelast K-MS 170/3000

Size	Protective coating	Product number
1,0 x 10 m	sand - sand	770445
		001660

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Designed for installation as the bottom layer of roof cladding on buildings and constructions and for waterproofing of engineering structures. Used for new roofing construction and for repair of old roof. Can be used for waterproofing of the foundations. Can be used as under layer for a bitumen shingles with mechanical fastening. Not recommended to use as one-layer roofing cladding or one-layer waterproofing.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

**TechnoNicol-Vyborg Ltd.,
Ruberoïdnaya St., 7, Leningradskaya region, Vyborg, 188804, RUSSIA
Tel. +78137839072
Fax. +78137839091
Email: Main@vbg.tn.ru**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

**TechnoNicol-Construction systems LLC,
Gilyarovskogo St., 47/5, Moskow 129110, RUSSIA
Tel. +74959255575
Fax. +74959805249
Email: europa@tn.ru
Website: www.tn-europe.com**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 2+

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

Notified certification body No. 0809 - VTT Expert Services Ltd. performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.

**This certificate №0809-CPD-0559 was first issued on August 20.2006, updated on June 27.2013;
updated certificate №0809-CPR-1033 on December 19.2013. (EN 13707)
Certificate №0809-CPD-0805 was first issued on June 27.2013,
Updated certificate 0809-CPR-1025 on November 15.2013. (EN 13969)**

9. Declared performance

Technoelast K-MS 170/3000

№	The indicator name		Test method	Unit of measure	Norm	Harmonised technical specification	
Полиэстр / Polyester, 170 g/m²							
1		Защита верхней стороны	Protection of the top side		See item number 2	<p style="text-align: center;">EN 13707:2004+A2:2009</p> <p style="text-align: center;">EN 13969: 2004+A1:2006</p> <p style="text-align: center;">EN 13970:2009</p>	
2		Защита нижней стороны	Protection of the bottom side				
3	MLV	Длины	Rolls length,	EN 1848-1	mm		≥10000
4	MLV	Ширины	Rolls width	EN 1848-1	mm		≥1000/ /700/500
5	Pass	Прямолинейность	Straightness	EN 1848-1	mm		Pass
6	MDV	Масса на единицу площади	Mass per unit area	EN 1849-1	kg/m ²		3.0-0.15
7	MDV	Толщина	Thickness	EN 1849-1	mm		2.5±0.2
8		Видимые дефекты	Visible defects	EN 1850-1	-		Visible defects
9	MLV	Гибкость в холодном состоянии	Cold flexibility, -25 °/ø 30 mm- upper face and lower face	EN 1109-1	°C		≤-25/30
10	MLV	Испытание на теплостойкость	Flow resistance at elevated temperature +100 °C/2 h - upper face	EN 1110	°C		≥100
11	MDV	Сцепление посыпки с покровным слоем	Adhesion of granules	EN 12039	%		-
12	MDV	Относительное удлинение	Elongation, L/T	EN 12311-1	%		50/50 ±25
13	MDV	Разрывные показатели	Tensile strength, L/T	EN 12311-1	N/50mm		700/500 ±100
14	MLV	Стабильность размеров	Dimensional stability, +80 °C/24 h, L, L	EN 1107-1	%		≤±0,6
15	MDV	Сопротивления на распространение трещин (при помощи штифта)	Nail shank tear resistance, L/T	EN 12310-1	N		180/180 ±30
16	Pass	Водонепроницаемость	Watertightness	EN 1928	kPa		300
17	MDV	Сопротивление отслаивания на стыках	Peel resistance of joints, A/M	EN 12316-1	N/50mm		80/100± 50
18	MDV	Сопротивление соединений разрезу	Shear resistance of joints	EN 12317-1	N/50mm		450±50
19	MLV	Сопротивление удару при +23 °C	Resistance to impact-impact resistance at +23 °C/ø12.7 mm (500 g/h.mm). method B	EN 12691	mm		h≥800
20	MLV	Сопротивление удару при +23 °C	Resistance to impact-impact resistance at +23 °C/ø12.7 mm (500 g/h.mm). method A	EN 12691	mm		h≥500
21	MLV	Сопротивление статическому нагружению,	Resistance to static loading, 200 N (20 kg) Method A (EPS support)	EN 12730	kg		≥ 20
22		Пожарные испытания	External fire exposure	EN 13501-5 ENV			B _{Roor} (t ₂)
23		Паропроницаемость	Water vapour transmission properties (+23 °C. 0/75 % R.H.)	EN 1931; W	Kg/m ² s Pa μ		1.48 x10 ⁻¹² 54200
Properties after artificial ageing/ EN 1296. 12 weeks at +70 °C							
24	MDV	Теплостойкость	Flow resistance at elevated temperature +80 °C/2 h - upper face	EN 1110	°C		≥80
25	MDV	Гибкость в холодном состоянии	Cold flexibility, -15 °/ø 30 mm- upper face and lower face	EN 1109-1	°C		≤-20/30
26	MDV	Водонепроницаемость	Watertightness	EN 1928	kPa		≥300
27	MDV	Относительное удлинение	Elongation, L/T	EN 12311-1	%		50/50 ±25
28	MDV	Разрывные показатели	Tensile strength, L/T	EN 12311-1	N/50mm		700/500 ±100
29	MLV	Сопротивление удару при +23 °C	Resistance to impact-impact resistance at +23 °C/ø12.7 mm (500 g/h.mm). method A	EN 12691	mm		h≥600
30		Паропроницаемость	Water vapour transmission properties (+23 °C. 0/75 % R.H.)	EN 1931; W	Kg/m ² s Pa μ	0.44 x10 ⁻¹² 171300	

Dangerous substances:

Does not include dangerous substances

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

General director

Vladimir Savenko

(name and function)

19.12.2013 г
(place and date of issue)

(signature)