

DECLARATION OF PERFORMANCE
No. 275-02-CPR-2016-05-31

1. Unique identification code of the product-type:

**Product elastomeric
 modified reinforced bitumen sheet Technoelast K-MS 170/4000 K (FL) GREEN**

Size	Protective coating	Product number
10x1	Sand-Film	TN459503

2. 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. Used for new roofing construction and for repair of old roof. Not recommended to use as one-layer roofing cladding or one-layer waterproofing. The membrane is root resistant and it can be used for waterproofing of roof gardens.

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

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

4. 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: europe@tn.ru
 Website: www.tn-europe.com**

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

System 2+

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

6a. **EN 13707:2004 + A1:2009**

EN 13969:2004 + A1:2006

6b. 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.

7. Declared performance

Technoelast K-MS 170/4000 K (FL) GREEN

№		The indicator name	Test method	Unit of measure	Norm	
Полиэстр / Polyester, 170 g/m²						
1		Защита верхней стороны	Protection of the top side		See item number 2	
2		Защита нижней стороны	Protection of the bottom side			
3	MLV	Длины	Rolls length,	EN 1848-1		mm
4	MLV	Ширины	Rolls width	EN 1848-1	mm	
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	4,0-0,20
7	MDV	Толщина	Thickness	EN 1849-1	mm	3.3±0.2
8		Видимые дефекты	Visible defects	EN 1850-1	-	no
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 and lower 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. method B	EN 1107-1	%	≤±0,6
15	MDV	Сопrotивления на распространение трещин (при	Nail shank tear resistance, L/T	EN 12310-1	N	180/180 ±30
16	Pass	Водонепроницаемость	Watertightness	EN 1928	kPa	300
17	MDV	Сопrotивление отслаивания на стыках	Peel resistance of joints, A/M	EN 12316-1	N/50mm	80/100± 50
18	MDV	Сопrotивление соединений разрезу	Shear resistance of joints	EN 12317-1	N/50mm	450±50
19	MLV	Сопrotивление удару при +23 °C	Resistance to impact-impact resistance at +23 °C/ø12.7 mm (500	EN 12691	mm	h≥1000
20	MLV	Сопrotивление 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	Сопrotивление статическому нагружению, метод А	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_{ROOF}(t2)
23		Паропроницаемость	Determination of water vapor transmission properties	EN 1931	—	μ=20000
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 and lower 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	≤-15/30
26	MDV	Водонепроницаемость	Watertightness	EN 1928	kPa	≥300

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by: [name]...GENERAL MANAGER.....

At [place]... TechnoNicol-Vyborg, Ltd.....on [date of issue]...2016.05.31.....

[Signature]..........Vladimir Savenkov.....