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Technical and Test Institute for Construction Prague, SOE

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Notified Body 1020
Branch 0100 – Praha

REPORT

on the assessment of performance

according to the Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011
(the Construction Products Regulation or CPR), Art. 1.4 of the Annex V (system 3)

No. 1020-CPR-010040454

Trade name:

Monofilament polypropylene fibre for concrete - STAVON
according to EN 14889-2:2006

type / variation: **diameter: 18 µm - length: 3 mm, 6 mm, 12 mm a 18 mm**
diameter: 32 µm - length 6 mm, 12 mm a 18 mm

Manufacturer:

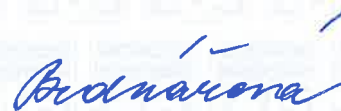
TREVOS Košťálov s.r.o.

INo: 47473291
Address: Košťálov 145, 512 02 Košťálov
Plant: TREVOS Košťálov s.r.o.
Address: Košťálov 145, 512 02 Košťálov
Order: Z010180148

Number of report pages including title-page: 4

Number of annexes: 3

The person taking responsibility for the content of this report:



Ing. Klára Bednářová
Chief assessor

The person taking responsibility for the correctness of this report:

Stamp of the Notified Body 1020

Praha, November 28, 2018




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1. Specification of tested subject

1.1. Description and intended use of the product

Monofilament polypropylene fibre for concrete (withou static function) STAVON according to EN 14889-2:2006

type / variation:

-diameter: 18 µm - length: 3 mm, 6 mm, 12 mm a 18 mm

-diameter: 32 µm - length 6 mm, 12 mm a 18 mm

Class Ia: Microfibres with diameter < 0.30 mm

1.2. Technical specification:

EN 14889-2:2006 - Fibres for concrete - Part 2: Polymer fibres - Definitions, specifications and conformity

ČSN EN ISO 2062:2010 - Textiles - Yarns from packages - Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester

ČSN EN 12350-3:2009 - Testing fresh concrete - Part 3: Vebe test

ČSN EN 14845-1:2008 - Test methods for fibres in concrete Part 1: Reference concretes

1.3. Manufacturer and plant:

Manufacturer and plant: TREVOS Košťálov s.r.o.

Address: Košťálov 145, 512 02 Košťálov

2. Sampling

Date of delivery to the testing laboratories: 19.07.2018 a 13.11.2018

Place of sampling: warehouse of the manufacturer

Type of shipping: shipping company

Date of overtaking: 19.07.2018 a 13.11.2018

Evidence sample numbers:

VZ010180318/A diameter 18 µm, length 3 mm

VZ010180318/B diameter 18 µm, length 6 mm

VZ010180318/C diameter 18 µm, length 12 mm

VZ010180318/D diameter 18 µm, length 18 mm

VZ010180319/E diameter 32 µm, length 6 mm

VZ010180319/F diameter 32 µm, length 12 mm

VZ010180319/G diameter 32 µm, length 18 mm

T-113-18-E (diameter of endless fibre: 18 µm)

T-114-18-E(diameter of endless fibre: 32 µm)

3. The assessment of performance on basis of testing, calculation, tabuled values, descriptive documentation

The assessment was carried out on the basis of testing.

3.1 The assessment on the basis of the testing

3.1.1. Effect on consistence of concrete

Determination was performed on the basis of the below stated testing methods:

ČSN EN 12350-3:2009 - Testing fresh concrete - Part 3: Vebe test

ČSN EN 14845-1:2008 - Test methods for fibres in concrete Part 1: Reference concretes

Technicians: RNDr. Vojtěch Hötzel, Jiří Novák

Date of finishing of testing: 18.09.2018

Dosage: 900 g/m³

Table No. 1: Test results – effect on consistence of concrete

Specification of test sample	Obtained results			Test report
	Type of settlement	Value of settlement [mm]	Vebe time [s]	
Reference concrete without fibres	correct	30	7,3	010-040249
VZ010180318/A diameter 18 µm, length 3 mm	correct	25	8,1	
VZ010180318/B diameter 18 µm, length 6 mm	correct	25	8,3	
VZ010180318/C diameter 18 µm, length 12 mm	correct	25	8,1	
VZ010180318/D diameter 18 µm, length 18 mm	correct	25	9,1	
VZ010180319/E diameter 32 µm, length 6 mm	correct	25	8,5	010-040250
VZ010180319/F diameter 32 µm, length 12 mm	correct	25	8,3	
VZ010180319/G diameter 32 µm, length 18 mm	correct	20	9,4	

3.1.2 Tensile properties – tenacity

Determination was performed on the basis of the below stated testing method:

ČSN EN ISO 2062:2010 - Textiles - Yarns from packages - Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester

Technician: Vaňoučková

Date of testing: 13.11.2018-26.11.2018

Table No. 2: Test results – tenacity

Specification of test sample	Obtained results [cN/dtex]	Test report
diameter 18 μ m	5,02	M-069-18-E
diameter 32 μ m	4,13	

4. Annexes

Test report No. 010-040249 of 18.09.2018, TZÚS Praha, s.p., Central laboratory – Testing department Praha

Test report No. 010-040250 of 18.09.2018, TZÚS Praha, s.p., Central laboratory – Testing department Praha

Test report No. M-069-18-E of 26. 11.2018, Sintex, a.s., Testing laboratory of textile materials