A-7/2022

PERFORMANCE ASSESSMENT REPORT

FOR ISSUING THE NATIONAL TECHNICAL ASSESSMENT

Name of the product:	**Plastic profile made of recycled plastic** **JB-Green_01**
Intended area of use of the product:	**The plastic profiles are used outdoors as fence posts.**
Product range:	**Other (36)**
Manufacturer of the product:	**JB Pro Quality Korlátolt Felelősségű Társaság** **H-9800 Vasvár, Szentmihályfalvi utca 10. 3. em 10.**

13/06/2022

The Performance Assessment Report consists of 4 pages and 4 annexes.

DATA

1.1. Manufacturer of the product and manufacturing site(s)

1.1.1. Manufacturer of the product

In accordance with the work program No. A-7/2022, dated on 28/02/2022.

1.1.2. Manufacturing site(s) of the product

In accordance with the work program No. A-7/2022, dated on 28/02/2022.

1.2. Description of the product

In accordance with the work program No. A-7/2022, dated on 28/02/2022.

1.3. Description of the intended use of the product

In accordance with the work program No. A-7/2022, dated on 28/02/2022.

1. TECHNICAL ASSESSMENT OF PRODUCT CHARACTERISTICS

2.1. Essential characteristics and assessment of the performance of the product

2.1.1. Mechanical resistance and stability

2.1.2. Safety in case of fire

Essential characteristics	Performance	Assessment method	Origin of performance
Product code: **JB-Green_01**			
Class of reaction to fire (fire protection class)	NPD*	MSZ EN 13501-1:2019	According to Section 13 (2) of the National Fire Protection Regulations of Hungary, and in accordance with Section 3.8 of the Fire Protection Technical Directive No. TvM1 11.3: 2022.06.13., the determination of fire protection class can be omitted.

***** NPD – No Performance Determined

2.1.3. Hygiene, health and environment protection

2.1.4. Safe use and accessibility

Essential characteristics	Performance	Assessment method	Origin of performance
Product code: **JB-Green_01**			
Dimensional change due to heat (R)(ΔL)[1]	0.008% 0.017 m	MSZ EN 479:2018	Based on laboratory Test Report No. MN-A181A-24320-2022 of ÉMI
Impact resistance against falling mass, degree of damage -before UV aging 1.[2] - before UV aging 2.[3] after UV aging [4]	 no change no change no change	MSZ EN 477:2018	Based on laboratory Test Report No. MN-A181A-24320-2022 of ÉMI
Characteristic value of load capacity $F_{5\%}$ [5]	2.597 kN	MSZ EN 12839:2012 B.1.1.5.	Based on laboratory Test Report No. MN-A181A-24319-2022/1 of ÉMI
Dimensional accuracy [6]	± 2 mm	MSZ EN 12839:2012 5.1.2.1.	Based on laboratory Test Report No. MN-A181A-24319-2022/1 of ÉMI

[1] 70 °C, 60 min
[2] 23 °C, 52 % RH
[3] - 10 °C
[4] after 1000 h of UV, 23 °C, 52 % RH
[5] 23,6 °C – 40 % RH
[6] 4-point bending (distance between supports: 2200 mm, distance between two upper forces 450 mm), speed of increasing load force: 100±20 N/s; 23.6 °C – 40 % RH

2.1.5. Protection against noise

2.1.6. Energy economy and thermal protection

2.1.7. Sustainable use of natural resources

Essential characteristics	Performance	Assessment method	Origin of performance
Product code: **JB-Green_01**			
Weather resistance (UV resistance), 1000 hours of exposure [1] Bending strength due to UV aging	14.7±1,92 MPa	MSZ EN 513:2018 MSZ EN ISO 178:2019	Based on laboratory Test Report No. MN-A181A-24319-2022/2 of ÉMI
Aging due to heat[2] Bending strength due to heat	15±1.86 MPa	EAD 030350-00-0402 2.2.10. MSZ EN ISO 178:2019	Based on laboratory Test Report No. MN-A181A-24319-2022/2 of ÉMI

[1] Cycle composition: 114 minutes of dry irradiation, 6 minutes of water spray; UV irradiation at 340 nm: 0.51±0.02 W/(m2nm); black standard temperature: 65±3 °C; white standard temperature: 45-50 °C; relative humidity 65±10%; duration: 1,000 hours
[2] Temperature: 80±2 °C; duration: 50 days

2.2. Characteristics of raw materials, determination of component characteristics and dimensional tests

The main characteristics of the product's raw material:

Characteristics	Value	Assessment method	Origin of the value
Raw material: **Recycled plastic**			
Density	0.987±0.010 g/cm^3	MSZ EN ISO 1183-1:2019 Method A	Based on laboratory Test Report No. MN-A181A-24319-2022/2 of ÉMI
Bending strength*	13.7±1.58 MPa	MSZ EN ISO 178:2019	Based on laboratory Test Report No. MN-A181A-24319-2022/2 of ÉMI

* Three-point bending, cross head speed: 2 mm/min

2. ANNEXES

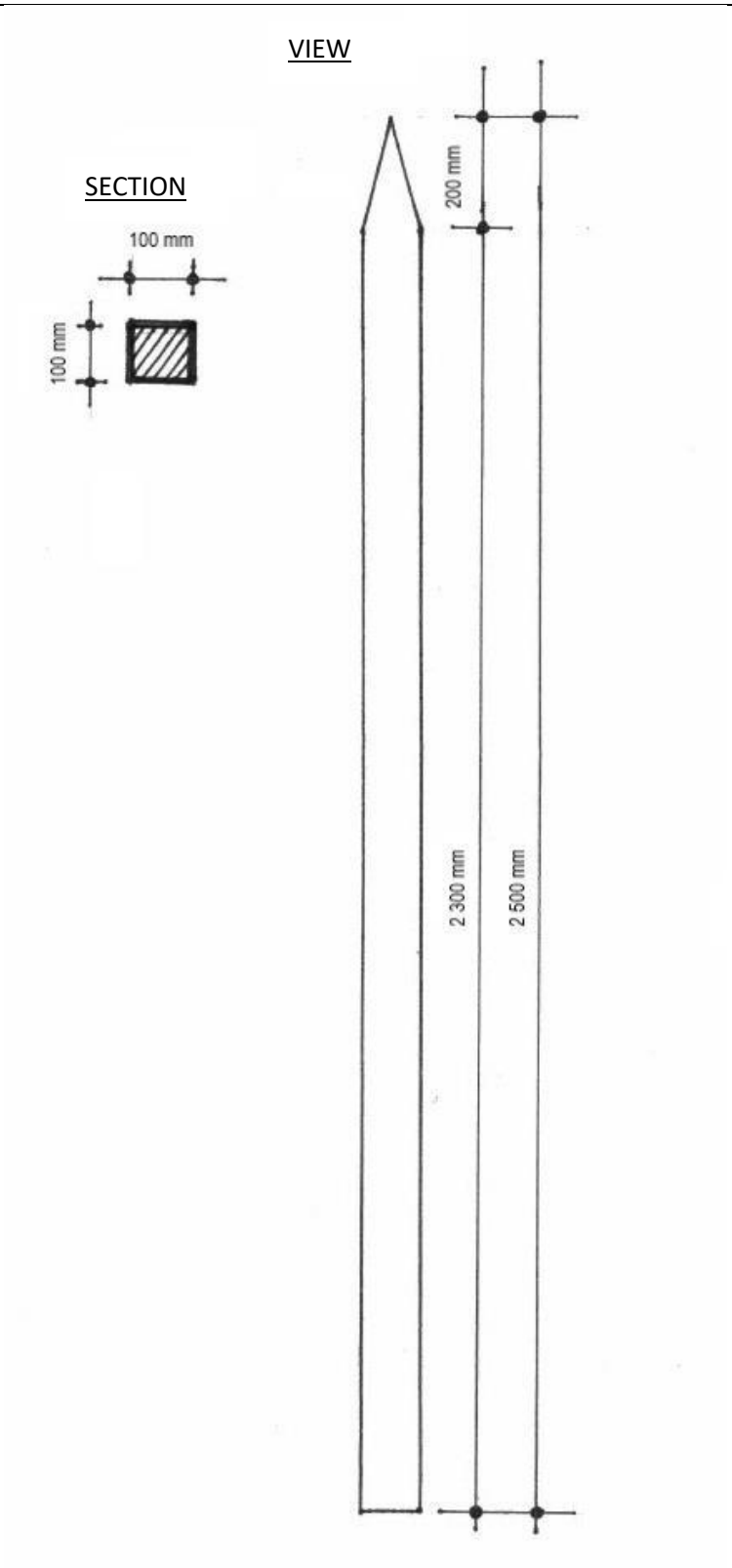
3.1. Annex 1: Scaled drawing of the product (1 page)
3.2. Annex 2: Laboratory Test Report No. MN-A181A-24320-2022 of ÉMI (6 pages)
3.3. Annex 3: Laboratory Test Report No. MN-A181A-24319-2022/1 of ÉMI (3 pages)
3.4. Annex 4: Laboratory Test Report No. MN-A181A-24319-2022/2 of ÉMI (5 pages)

The Performance Assessment Report was prepared by:

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Professionally checked and approved by:

Mr Péter Tóth
Product Manager



Scaled drawing of the product	**Annex 1**