

1 Introduction

This test report describes:

- Determination of slip resistance (DIN 51097)

executed on a kind of product sent to the CertiMaC Laboratory in Faenza, by the company Innovatív Térburkolatfejlesztő Kft (Ref. 2-a, 2-b).

2 References

- Estimate: ref. n. 20009/lab on 16/01/2020.
- Order confirmation: e-mail on 17/01/2020.
- DIN 51097. Testing of floor coverings. Determination of the anti-slip property. Wet-loaded barefoot areas. Walking method. Ramp test.

3 Test object

Test has been executed on 6 surface layers [Figure 1] from 6 corresponding paving blocks with an integrated photovoltaic system, named:

- PLATIO SOLAR PAVER WITH OPAL SURFACE

with size approximately of 34 x 34 x 1 cm³. The specimens were selected from a sampling sent to the laboratory by the Customer on 22/01/2020.

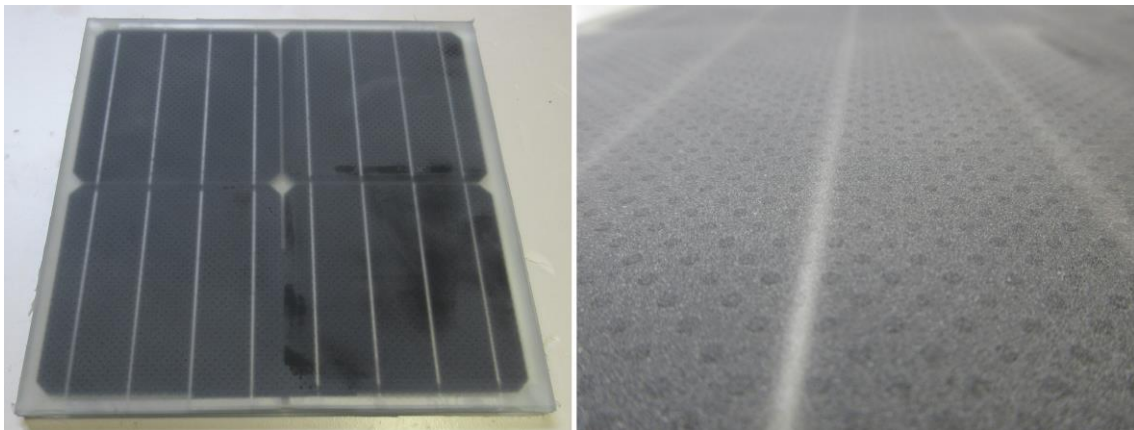


Figure 1 Platio solar paver with "Opal" surface

4 Determination of slip resistance: DIN 51097

Walking test method described by the German standard on Ref. 2-c is used for wet areas exposed to the risk of slipping with barefoot.

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According to standard on Ref.2-c, test has been executed by an operator, walking on a ramp test made by a panel of size 120 x 60 cm with attached tiles of the product to test. Both before and during the test, water is poured on ramp test.

The slope of the ramp is increased during test with constant speed (1°/second) until the operator start to slip. Then, the angle of inclination of ramp test is recorded. Test has been repeated several times, in order to define, with the maximum accuracy, the value of the slipping angle.

4.1 Results

Table 1 shows the results achieved.

Product	Average Slipping Angle	belonging group
Platio solar paver with "Opal" surface	$\geq 24^\circ$	C

Table 1. Slip resistance (DIN 51097): Average slipping angle and belonging group.

4.2 Analysis of results

According to standard on Ref. 2-c, product are classified on the basis of the value of the minimum slipping angle, as showed in table below.

Belonging group	Average Slipping Angle
A	$\geq 12^\circ$
B	$\geq 18^\circ$
C	$\geq 24^\circ$

Table 2 classification on the basis of the slipping angle (Ref. 2c)

The product named "**Platio solar paver with Opal surface**" has an average slipping angle of $\geq 24^\circ$ and it is than classifiable in **class C** according to Ref. 2-c.

5 Distribution List

ENEA	Archives	1 copy
CertiMaC	Archives	1 copy
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