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Dresden, 07/04/2022
MPET/USOK

Test Report Order No. 2721668

Client: ACCSYS TECHNOLOGIES (EXP)
Westervoortsedijk 73
6827 AV Arnhem
The Netherlands

Date of order: 09/02/2022

Order: Determination of slip resistance of floor coverings -
Methods of evaluation according to EN 16165:2021-10, Annex A
(Barefoot ramp test)

Contractor: EPH - Laboratory Surface Testing

Engineer in charge: Dipl.-Ing. (FH) M. Peter



Dipl.-Ing. Andreas Möschner
Head of Laboratory Surface Testing

The test report contains 4 pages. Any duplication, even in part, requires written permission of EPH.
These test results are exclusively related to the tested material.

1 Task

The accredited Entwicklungs- und Prueflabor Holztechnologie GmbH (EPH) was instructed by ACCSYS TECHNOLOGIES (EXP) in Arnhem / Netherlands to carry out testing of slip resistance of floor coverings - Methods of evaluation according to EN 16165:2021-10, Annex A (Barefoot ramp test).

NOTE: All numerical values within this document are given with a comma as decimal.

2 Test material

For testing, the following flooring samples were selected by the client and sent to the contractor with receipt at EPH laboratory on: 28/03/2022

- Variant 1: Accoya planed
- Variant 2: Accoya fine sawn
- Variant 3: Accoya brushed
- Variant 4: Accoya Color grey - decking profile planed with rounded edge
- Variant 5: Bangkira boards - one side planed
- Variant 6: Ipe boards planed

3 Determination of slip resistance of floor coverings - Methods of evaluation according to EN 16165:2021-10, Annex A (Barefoot ramp test)

The determination of slip resistance of floor coverings - Methods of evaluation was carried according to EN 16165:2021-10, Annex A (Barefoot ramp test) with requirements from National Annex NB.

Test principle:

In the process, a test person moves forwards and backwards in an upright position on the floor covering to be tested, the inclination of which is increased starting from the horizontal state to the angle (angle of slip) at which the test person begins to become slip occurs. The angle of slip is determined on the floor covering continuously flooded with water containing wetting agent (see Fig. 1). This angle of slip is determined by two testers four times each, starting from the horizontal condition of the floor covering to be tested. The mean inclination angle of corrected ramp test values (corrected by a calibration procedure) from 2 walkers is used to assess this angle of slip.

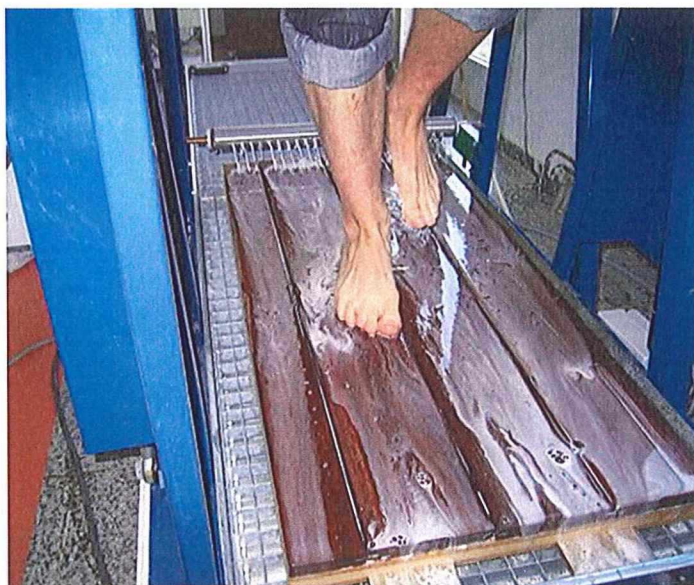


Fig. 1: Wet deck boards during the test on the ramp test

Performance of the tests: 05/04/2022

4 Test result

4.1 Slip resistance of floor coverings - Methods of evaluation according to EN 16165:2021-10, Annex A (Testing by walking barefoot on an inclined plane)

Variant	Mean angle of the slip α_{barefoot} in °	Anti-slip class* according to EN 16165:2021-10, National Annex NB (informative), Table NB.1
1	27	C
2	32	C
3	26	C
4	24	C
5	24	C
6	26	C

* Statements on conformity assessment/classification were made on the basis of the measurement results obtained. Measurement uncertainties were not included in the assessment (ILAC G8 03/2009 "Guidelines on the Reporting of Compliance with Specification" Section 2.7).

Anti-slip classes according to EN 16165:2021-10, National Annex NB (normative), Table NB.1

Test result α_{barefoot}	Anti-slip class
$12^\circ \leq \alpha_{\text{barefoot}} < 18^\circ$	A
$18^\circ \leq \alpha_{\text{barefoot}} < 24^\circ$	B
$24^\circ \leq \alpha_{\text{barefoot}}$	C

5 Evaluation

The requirements according to EN 16165:2021-10 Annex A (test by walking barefoot on an inclined plane) for the class of slip resistance **C** (angle of slip $24^\circ \leq \alpha_{\text{barefoot}}$) are met by tested **variants 1 to 6**.



Dipl.-Ing. (FH) M. Peter
Engineer in charge