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Dresden, 29/11/2019  
MPET

## Test Report Order No. 2719627

**Client:** Unilin bvba division Panels  
Ooigemstraat 3  
8710 Wielsbeke  
Belgium

**Date of order:** 31/10/2019

**Order:** Determination of anti-slip property according to DIN 51130:2014

**Contractor:** EPH – Laboratory Surface Testing

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



Dr.-Ing. Rico Emmler

Head of Laboratory Surface Testing

The test report contains 3 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material.

## 1 Task

The authorized laboratory Entwicklungs- und Prüflabor für Holztechnologie GmbH (EPH) was commissioned by Unilin bvba division Panels in Wielsbeke / Belgium to carry out testing of the anti-slip property according to DIN 51130:2014.

## 2 Test material

For testing, the following samples were selected by the client and sent to the contractor with receipt at EPH laboratory on: 07/11/2019

Sample No.: L1 ESD R10

Sample No.: D1 ESD R10



Fig. 1: Sample D1

## 3 Determination of anti-slip property according to DIN 51130:2014

The determination of the anti-slip property was carried out according to DIN 51130:2014 (Workrooms and fields of activities with slip danger, Walking method – Ramp test) and BGR 181, updated version from October 2003.

A test person with test shoes, in an upright position, is walking on the floor covering to be tested in forward and backward direction while the inclination of the flooring is increasing from the initial horizontal state until an acceptance angle (inclination angle) is reached. The determination of that angle will be done after coating the floor covering with lubricant before. The average inclination angle is used to assess the degree of slipping.

Subjective influences are limited by a calibration procedure (Fig. 2).



Fig. 2: Calibration board on Ramp test device

Performance of the test: 26/11/2019.

#### 4 Results

Sample No.	Angle of acceptance in °	Anti-slip class according to DIN 51130:2014*	
L1 ESD R10	13.9	R10	R10
D1 ESD R10	18.2	R10	


\* 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 DIN 51130:2014

- Angle of acceptance for class R9 above 6° until 10°
- Angle of acceptance for class R10 above 10° until 19°
- Angle of acceptance for class R11 above 19° until 27°
- Angle of acceptance for class R12 above 27° until 35°
- Angle of acceptance for class R13 above 35°

#### 5 Evaluation

The tested product meet the requirements of BGR 181, updated version October 2003, Table 1 and of DIN 51130:2014, for the anti slip class R10 (angle of acceptance 10° until 19°).

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