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Test Report

Projekt/ project: **P 9465 b**

order: Determination of anti-slip properties and displacement space
evo- floor
according to DIN 51130

sample description: Black plastic plates with bumps and holes

sample receipt date: 12.03.2015

test period: March 2015

this report consists of: 5 pages

Flörsheim-Wicker, 26.03.2020



i. V. Dipl.-Ing (FH) N. Machill
head of the institute



i. A. P. Stein
person in charge

Die Prüfergebnisse beziehen sich ausschließlich auf die genannten Prüfgegenstände. Ohne schriftliche Genehmigung des Prüflaboratoriums ist eine auszugsweise Vervielfältigung des Prüfberichts nicht gestattet.

^{a)} Angaben des Auftraggebers ^{k)} Änderung

Geschäftsführer: Prof. Dr. Roland Hüttl
Amtsgericht Hamburg, HRB 130568, St.Nr.: 46/736/03268



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1 SUBJECT

Polymer Institut has been charged by IBS international GmbH, Sulzfeld im Grabfeld, to carry out tests on

evo- floor

The following test program has been carried out in accordance with the client.

Overview: test program

Kapitel/ chapter	Prüfmethode/ test method	Prüfnorm/ standard
3.1	Determination of the acceptance angle and assignment to a slip resistance class	DIN 51130
3.2	Determination of the displacement space and assignment to a class of displacement space	

2 RECEIPT OF SPECIMENS

The following samples were delivered to the Polymer Institute on March 12, 2015.

Overview:

number	label	description	dimensions (l x w x h) [mm]
2	evo- floor	Black plastic plates with bumps and holes	500 x 500 x 27

3 TESTS

3.1 Testing the anti-slip properties

The tests have been carried out in accordance with DIN 51130:2014. The tester walks upright backwards and forwards along the floor covering to be tested wearing test shoes. The inclination of the test specimen is being increased during walking until the acceptance angle is reached. Subjective influences are limited by means of a calibration method and a second tester.

The attribution of the adjusted mean acceptance angles to the slip resistance classes is given in following overview.

Overview: slip resistance classes in accordance with DIN 51130:2014

adjusted mean acceptance angle α_{ges}	slip resistance class
6° - 10°	R 9
> 10° bis 19°	R 10
> 19° bis 27°	R 11
> 27° bis 35°	R 12
> 35°	R 13

3.2 Measuring the displacement space

The displacement space has been measured in accordance with clause 6 of DIN 51130:2014. The class of the displacement space is attributed in accordance with table 4 of DIN 51130:2014. In following overview the area-related volume of the displacement space of the test specimens is attributed to a class of the displacement space.

Overview: attributing the area-related volume to a class of displacement space in accordance with table 4 of DIN 51130:2014

area-related minimum volume of the displacement space [cm ³ /dm ²]	class of the displacement space
4	V 4
6	V 6
8	V 8
10	V 10

4 RESULTS

Table 1: mean total corrected acceptance angle
classification of slip resistance in accordance with DIN 51130:2014

description	adjusted mean acceptance angle α_{ges} [°]	slip resistance class
evo- floor	6,8	R 9

Table 2: Displacement space in accordance with DIN 51130:2014

description	displacement space [cm ³ /dm ²]	class of the displacement space
evo- floor	6,5	V 6



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