



Deutsche
Akkreditierungsstelle
D-PL-11027-04-01
D-PL-11027-04-02

Test Report

Determination of sliding properties and friction

Report-No.: 903 9722 000/Sgm

Client: Berger-Seidle GmbH
Maybachstr. 2
67269 Grünstadt / Weinstr.

Order-No. (Client): -

Order-No. (MPA): 903 9722 000 /Sgm

Test Item: „SolvSeal LT Export Extra“ on oak parquet

Specification Applied: [1] DIN V 18032-2:2001-04
Sport halls - Halls for gymnastics, games and multi-purpose use -
Part 2: Floors for sporting activities; Requirements, testing
[2] DIN EN 14904:2006-06
Surfaces for sports areas –Indoor surfaces for multi-sports use -
Specification

Date of Receipt of Test Item: 04.03.2021

Date of Test: 11.03.2021

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Enclosures : 1

Supplements: -

Total Number of Pages: 4

Number of Reports: 2

The test results relate only to the items tested.

Publication of this report in full or partly is only allowed with written authorization by MPA University of Stuttgart.
In compliance with DIN EN ISO/IEC 17025 accredited Testing Laboratory recognized by Deutsche Akkreditierungsstelle (DAkkS).
Accreditation valid for testing methods listed in the certificates.

1 Purpose of Investigation

You commissioned us with testing of the sliding properties according to DIN V 18032-2 [1] and friction according to DIN EN 14904 [2] of a surface for sports areas. Therefor we received two oak parquet samples (size approx. 20 cm x 70 cm) which were treated with the product "SolvSeal LT Export Extra".

According to the client, the product "SolvSeal LT Export Extra" was applied to the oak parquet floor in three coats of 100 ml/m² each.

2 Testing procedure

The testing of the sliding behaviour was carried out according to the procedure described in DIN V 18032-2 [1] and the determination of the friction according to the procedure described in DIN EN 14904 [2].

These tests are accredited procedures according to DIN EN ISO/IEC 17025:2005 (DAkkS registration number D-PL-11027-04-02). When assessing conformity, the measurement uncertainty of the test results is not taken into account.

3 Test results

Table 1 below summarises the measurement results of the sliding behaviour and compares them with the requirements of DIN V 18032-2 [1].

The individual measured values can be seen in Table 3, Enclosure 1.

Table 1: Test results of sliding properties according to DIN V 18032-2 [1] of the product „SolvSeal LT Export Extra“ on oak parquet

| Test according to DIN V 18032-2 [1] | Test results | | Requirements according to DIN V 18032-2 [1] |
|--|---------------|---------------|--|
| | min. value | max. value | |
| Sliding properties | 0,55 | 0,57 | min. 0,4; max. 0,6 |


Table 2 below summarises the measurement results of friction and compares them with the requirements of DIN EN 14904 [2].


The individual measured values can be seen in Table 4, Enclosure 1.

Table 2: Test results of friction according to DIN EN 14904 [2] of the product „SolvSeal LT Export Extra“ on oak parquet

| Test according to DIN EN 14090 [2] | Test results | | Requirements according to DIN EN 14904 [2] |
|---------------------------------------|--------------|---------------------------|---|
| | | | |
| friction (EN 13036-4) | 106 | max. deviation +2 / -2 | 80 – 110 (max deviation of single value +/- 4 units of mean value) |

The requirements of DIN V 18032-2 [1] for sliding behaviour and DIN EN 14904 [2] for friction were met by the tested sample of oak parquet flooring with "SolvSeal LT Export Extra".


Oliver Konrad
Testing Engineer




Dr.-Ing. Michael Stegmaier
Head of section
Building Envelope, Energy Efficiency
Floor Constructions

Table 3: Test results of sliding properties according to DIN V 18032-2 [1]

| Test spot No. | Sliding coefficient μ |
|---------------|---------------------------|
| 1 | 0,55 |
| 2 | 0,56 |
| 3 | 0,55 |
| 4 | 0,57 |
| 5 | 0,55 |

Table 4: Test results of friction according to DIN EN 14904 [2]

| Test spot | friction (PTV-value) | |
|----------------|----------------------|--------|
| | along | across |
| 1 | 108 | 104 |
| 2 | 106 | 105 |
| 3 | 107 | 105 |
| 4 | 108 | 105 |
| 5 | 108 | 106 |
| along/across Ø | 107 | 105 |
| total Ø | 106 | |

