



KAINDL FLOORING GmbH
Kaindlstraße 2
5071 Wals
Austria

Your Reference
Customer Number 50017
Contact Person Grumböck Sandra
E-Mail sgrumboeck@kaindl.com

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Test Report VN721 184197.1

Application

Determination of dynamic coefficient of friction according to EN 13893.

Test Material

See Point 2

The test material used for testing was made anonymous for laboratory purposes.
A detailed sample list is included in the document.

Issuing

Original Issuing, 14.04.2021
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Translation

OETI - Institute for Ecology, Technology and Innovation GmbH

A handwritten signature in blue ink, appearing to read 'Vitteck'.

Ing. Hannes Vittek

Manager Flooring Technology & Interior Design

OETI - Institut fuer Oekologie, Technik und Innovation GmbH | Siebenhirtenstrasse 12A, Objekt 8, 1230 Vienna, Austria
tel +43 1 5442543-0 | e-mail office@oeti.biz | www.oeti.biz | FN 326826 b | VAT No. ATU65149029 | EORI ATEOS1000015903
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1 Application

Date of Order	Scope of Order
15.02.2021	Description of the specimen Determination of dynamic coefficient of friction according to EN 13893

2 Samples

No.	Receipt	Sample Identification
1	23.02.2021	Surface "HB – Historic Bevel"
2	23.02.2021	Surface "CB – Cabana Bevel"
3	23.02.2021	Surface "LU – Ultramatt"
4	23.02.2021	Surface "RC – Royal Cordoba"
5	23.02.2021	Surface "EG – Epic Grain"

(Unless otherwise stated samples are provided by the customer.)

3 Tests Performed / Results

3.1 Description of the specimen

Samples 1, 2, 4 and 5 are laminate floors (substrate, HDF carrier board) with an all-round "click connection" in accordance with EN 13329.

Sample 3 is a veneered floor covering ("veneer floor") with an all-round "click connection" in accordance with EN 14354.

4 Measurement of dynamic coefficient of friction

According to EN 13893

Test apparatus: GMG 200 SC

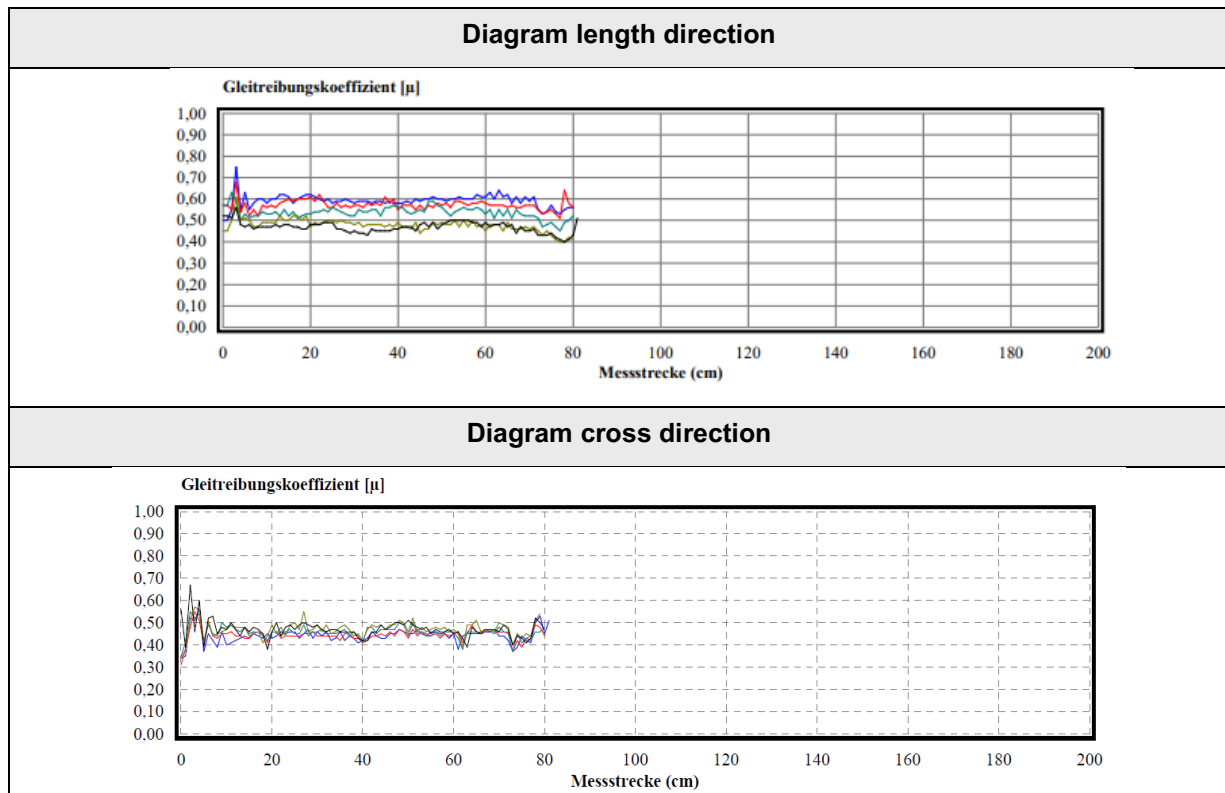
Sliders: Group consisting of two leather- and one rubber-slider (dry measurement)

Number of measurements: 5 each, evaluation is taken only from measurements 3 - 5

Test climate: $23 \pm 2^\circ\text{C}$ / $50 \pm 5\%$ relative air humidity

Tested sample: **Surface “HB – Historic Bevel”**

dynamic coefficient of friction [μ]		
Measurement	length direction	cross direction
1	0.59	0.59
2	0.57	0.52
3	0.54	0.48
4	0.48	0.48
5	0.46	0.50
Mean value	0.49	0.49



Evaluation

The tested sample can be classified into the **technical class DS** according to EN 14041.

4.1 Measurement of dynamic coefficient of friction

According to EN 13893

Test apparatus: GMG 200 SC

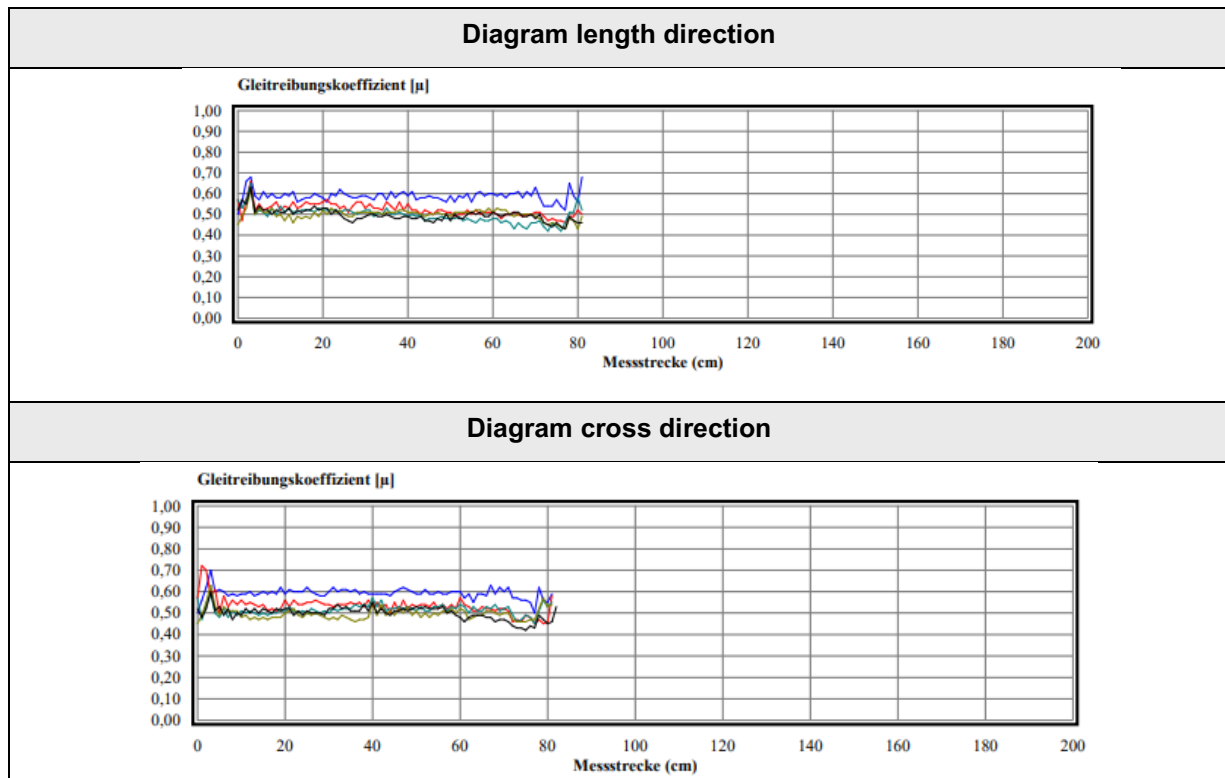
Sliders: Group consisting of two leather- and one rubber-slider (dry measurement)

Number of measurements: 5 each, evaluation is taken only from measurements 3 - 5

Test climate: $23 \pm 2^\circ\text{C}$ / $50 \pm 5\%$ relative air humidity

Tested sample: **Surface “CB – Cabana Bevel”**

dynamic coefficient of friction [μ]		
Measurement	length direction	cross direction
1	0.58	0.59
2	0.53	0.53
3	0.50	0.51
4	0.50	0.49
5	0.49	0.51
Mean value	0.50	0.50



Evaluation

The tested sample can be classified into the **technical class DS** according to EN 14041.

4.2 Measurement of dynamic coefficient of friction

Based on EN 13893

Test apparatus: GMG 200 SC

Sliders: Group consisting of two leather- and one rubber-slider (dry measurement)

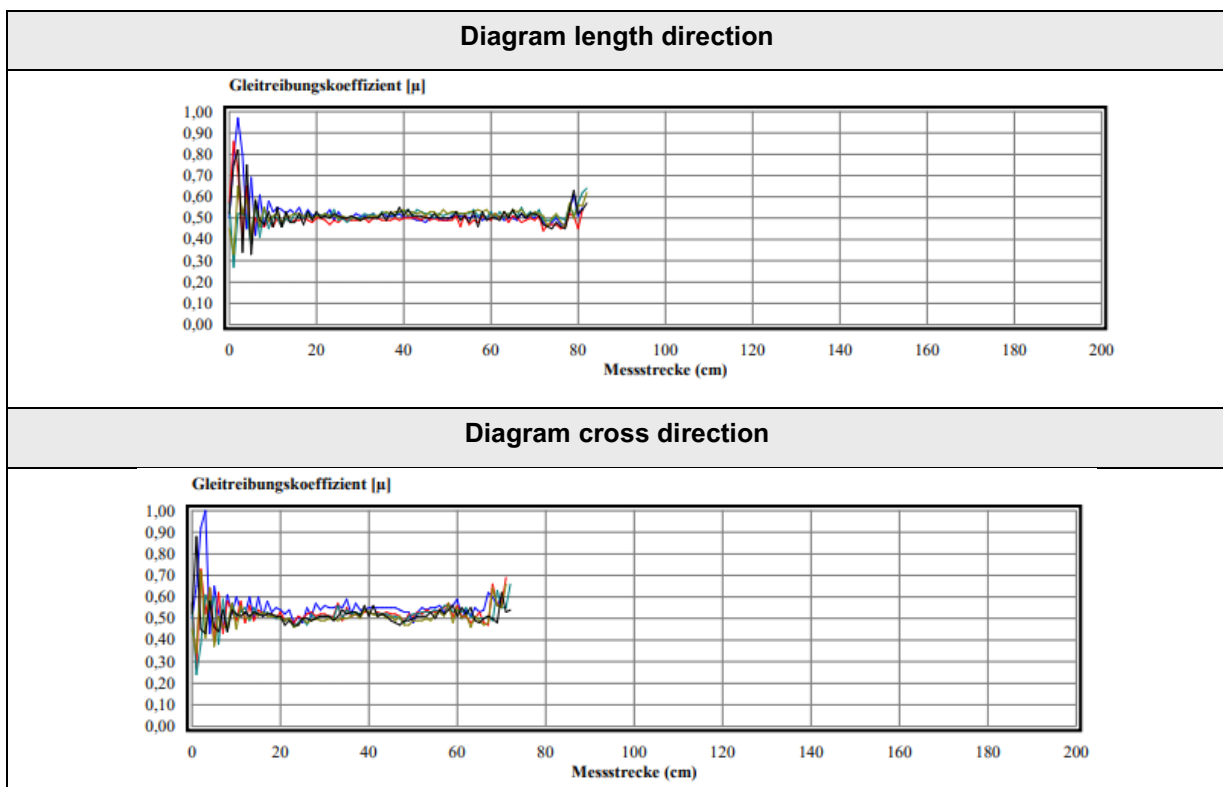
Number of measurements: 5 each, evaluation is taken only from measurements 3 - 5

Test climate: $23 \pm 2^\circ\text{C}$ / $50 \pm 5\%$ relative air humidity

Deviation from the standard: a veneer floor based on EN 14353 was tested.

Tested sample: **Surface "LU Ultramatt"**

dynamic coefficient of friction [μ]		
Measurement	length direction	cross direction
1	0.51	0.54
2	0.49	0.52
3	0.51	0.51
4	0.51	0.50
5	0.50	0.50
Mean value	0.51	0.50



4.3 Measurement of dynamic coefficient of friction

According to EN 13893

Test apparatus: GMG 200 SC

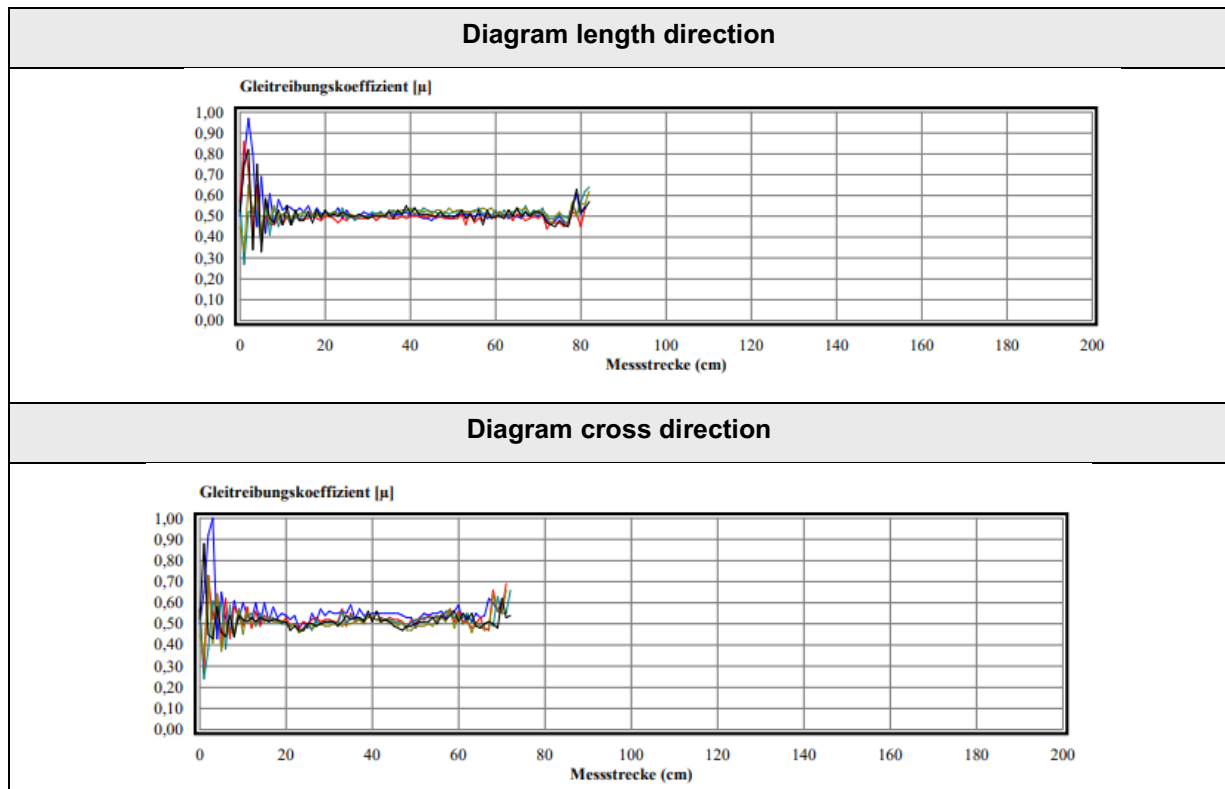
Sliders: Group consisting of two leather- and one rubber-slider (dry measurement)

Number of measurements: 5 each, evaluation is taken only from measurements 3 - 5

Test climate: $23 \pm 2^\circ\text{C}$ / $50 \pm 5\%$ relative air humidity

Tested sample: **Surface "RC – Royal Cordoba"**

dynamic coefficient of friction [μ]		
Measurement	length direction	cross direction
1	0.64	0.61
2	0.58	0.57
3	0.54	0.55
4	0.54	0.56
5	0.54	0.56
Mean value	0.54	0.56



Evaluation

The tested sample can be classified into the **technical class DS** according to EN 14041.

4.4 Measurement of dynamic coefficient of friction

According to EN 13893

Test apparatus: GMG 200 SC

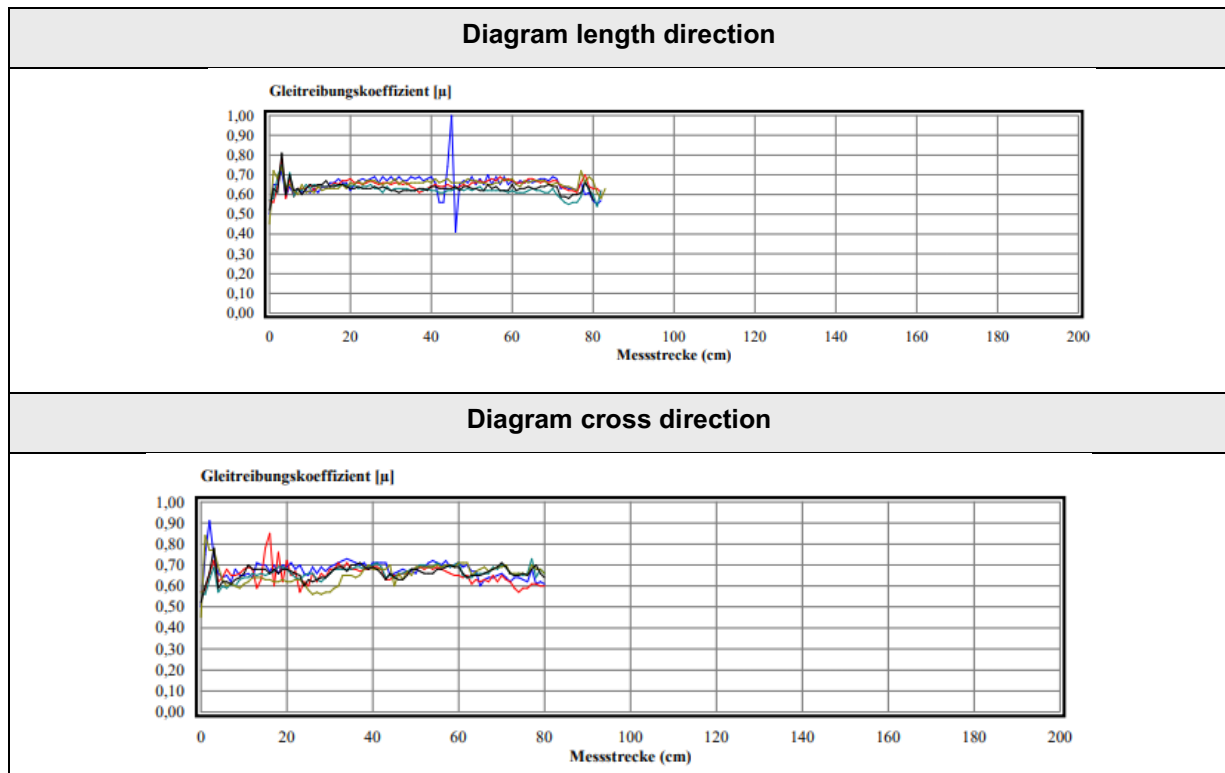
Sliders: Group consisting of two leather- and one rubber-slider (dry measurement)

Number of measurements: 5 each, evaluation is taken only from measurements 3 - 5

Test climate: $23 \pm 2^\circ\text{C}$ / $50 \pm 5\%$ relative air humidity

Tested sample: **Surface “EG – Epic Grain”**

dynamic coefficient of friction [μ]		
Measurement	length direction	cross direction
1	0.66	0.68
2	0.64	0.67
3	0.63	0.66
4	0.65	0.63
5	0.63	0.66
Mean value	0.64	0.65



Evaluation

The tested sample can be classified into the **technical class DS** according to EN 14041.

5 Remarks

Period of Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or OETI. The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product is produced unchanged. Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

Sample Material

Results of performed tests only refer to the sample material provided. Without explicit written other agreement testing is destructive and the sample material is transferred to the property of OETI, which is entitled to freely decide on storage and disposal.

Issuing

This test report is only issued as a PDF. Translations will be marked accordingly on the cover sheet.

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All tests and services are performed under a quality management system according to EN ISO/IEC 17025. OETI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body (NB0534). (see <http://ec.europa.eu/enterprise/newapproach/nando/>). Accreditation was provided by Akkreditierung Austria. The scope of accreditation is listed on www.oeti.biz. Due to the system for the mutual recognition of national accreditations (ILAC/IAF), this accreditation is valid worldwide.

Statements of conformity are based on the specifications of the specified standard. The “simple acceptance rule” applies, that means the measurement uncertainty is stated for the statement of conformity, but not taken into account.

In this report individual non-accredited test procedures are marked with *. Nevertheless, the analysis was also carried out for these parameters at the same level of quality as for the accredited parameters.

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End of Report