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Dresden, 18/01/2021
MPET

Test Report Order No. 2721007/2

Client: HEMEL EMPRENYE SANAYI VE TICARET A.S.
I.D.O.S.B VAKUM CAD. NO:25 B1 OZEL PARSEL
TUZLA, 34957, ISTANBUL
TURKEY

Date of order: 07/01/2021

Order: Determination of the resistance against scratching
according to EN 15186:2012 procedure B

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 Development and Examination Laboratory for Wood Technology Ltd. (EPH) was instructed by HEMEL EMPRENYE SANAYI VE TICARET A.S. in ISTANBUL, TÜRKİE to carry out the resistance against scratching according to EN 15186:2012 procedure B.

2 Material

For testing, the following samples were selected by the client and sent to the contractor with receipt at EPH laboratory on: 07/01/2021

The oak wood veneer floor covering samples were labelled as follows:

Hemel Invisible

3 Determination of the resistance to scratching according to DIN EN 15186:2012

The test was carried out according to EN 15186:2012 procedure B with a universal Scratch Tester Model 413 (Erichsen, Germany).

Performance of the test: 14/01/2021 – 15/01/2021

4 Results

Scratching load in N, which causes an in itself closed mark			
Single values			Mean value
0.6	0.8	0.7	0.7

5 Evaluation

Normative requirements for the resistance against scratching of lacquered parquets are no existing. That's why the result will be compared with the "IHD-Requirement Profile for wooden flooring - lacquered surfaces" in level of use (LU 1: private living area with moderate use....LU 6: area of object with heavy use) as following:

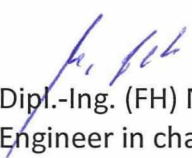
Property	Result	Assessment* in level of use (LU)
Resistance against scratching according to EN 15186:2012 procedure B	0.7 N	1 – 4 are fulfilled

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

Property	Minimum requirements for the levels of use					
	1	2	3	4	5	6
Scratching resistance according to EN 15186:2012	≥ 0.5 N		≥ 0.7 N		≥ 1.0 N	

Level of use (LU) for lacquered wooden floorings according to IHD-profile:

LU	Area of use	Intensity / description of requirements	Examples for use
1	domestic	moderate / rare use	Bedroom, guestroom
2	domestic	general / often normal use	Living room, dining room, studying room
3	domestic	heavy / intensive use	Entry-corridor, children's room, kitchen
4	commercial	moderate / rare use	Hotel room
5	commercial	general / often normal use	boutiques or small stores
6	commercial	heavy / intensive use	department stores and multipurpose halls


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