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I.D.O.S.B VAKUM CAD. NO:25 B1 OZEL PARSEL  
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Dresden, 16/01/2019  
MPET

## Test Report Order No. 2718577

**Client:** HEMEL EMPRENYE SANAYI VE TICARET A.S.  
I.D.O.S.B VAKUM CAD. NO:25 B1 OZEL PARSEL  
TUZLA,34957, ISTANBUL  
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**Date of order:** 03/01/2019

**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 Emmmler

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 the test, the customer has sent per variant three samples of lacquered parquet (entrance at the EPH laboratory 07/01/2019)

The samples were labelled as follows:

Variant 1: HEMEL Home Mat, ipek Mat, Parlak

Variant 2: HEMEL Home Mat, ipek Mat, Parlak

Variant 3: HEMEL Home Mat, ipek Mat, Parlak

Variant 4: HEMEL Home Mat, ipek Mat, Parlak

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

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

The tests were carried out on: 15/01/2019 – 16/01/2019.

## 4 Results

Variant	Scratching load in N, which causes an in itself closed mark		
	Single values		Mean value
1	0.8	0.8	0.8
2	0.8	0.8	0.8
3	0.8	0.8	0.8
4	0.8	0.8	0.8

## 5 Evaluation

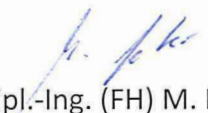
Normative requirements for the resistance against scratching of lacquered parquets are no existing. That's why the result will be compared with the "IHD-Requirement Profile for wooden flooring - lacquered surfaces" in level of use (LU 1: private living area with moderate use....LU 6: area of object with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

Variant	Property	Result	Assessment in level of use
1	Resistance against scratching according to DIN EN 15186:2012 procedure B	0.8 N	LU 1 – 4 fulfilled*
2		0.8 N	LU 1 – 4 fulfilled*
3		0.7 N	LU 1 – 4 fulfilled*
4		1.3 N	LU 1 – 6 fulfilled*

- \* Requirement for the LU1-LU2:  $\geq 0.5$  N  
 Requirement for the LU3-LU4:  $\geq 0.7$  N  
 Requirement for the LU5-LU6:  $\geq 1.0$  N

Level of use for lacquered wooden floorings according to IHD-profile

Level of use	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