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Dresden, 23/07/2020
MPET

Test Report
Order No. 2720402

Client:	MODECOR INTERNATIONAL GmbH
	Neuer Wall 63
	20354 Hamburg
Date of order:	16/07/2020
Order:	Determination of scratch resistance
	according to EN 438-2:2019 chapter 25
Contractor:	EPH – Laboratory Surface Testing
Engineer in charge:	Dipl.-Ing. (FH) M. Peter

i.V. R. Pilz

Dr.-Ing. Rico Emmler
Head of Laboratory Surface Testing

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1 Task

The authorized laboratory Entwicklungs-und Prüflabor Holztechnologie GmbH (EPH) was commissioned by MODECOR INTERNATIONAL GmbH in Hamburg to carry out of the determination of scratch resistance according to EN 438-2:2019 chapter 25

2 Test material

For testing, the following samples were selected by the client and sent to the contractor with receipt at EPH laboratory on: 20/07/2020

HPL Modecor 201 Midnight Black Ultramatt AFP

Thickness: 0.8 mm

3 Determination of the resistance to scratching according to DIN EN 438-2:2019 chapter 25

The determination of the scratch resistance was carried out according to EN 438-2:2019, chapter 25.

A Universal Scratch Tester Model 413 from the Erichsen company was used as a testing device.

The evaluation of the results was carried out with the help of comparison samples according to EN 438-2:2019, Figure 22, as well as the evaluation scale from Table 6, chapter 25.7.

Performance of the test: 23/07/2020

4 Result

Scratch resistance in N		**Scratch resistance* according to EN 438-2:2019 Table 6 in Rating**
Discontinuous scratches, or faint superficial marks, or no visible marks	**≥ 90 % continuous double circle of scratch marks clearly visible**	
2	4	3

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

EN 438-2:2019, Table 6 - Scratch resistance rating scale		
Rating scale	Discontinuous scratches, or faint superficial marks, or no visible marks	≥ 90 % continuous double circle of scratch marks clearly visible
Rating 5	6 N	> 6 N
Rating 4	4 N	6 N
Rating 3	2 N	4 N
Rating 2	1 N	2 N
Rating 1	-	1 N

5 Evaluation

The tested product reached a scratch resistance rating 3 according to EN 438-2:2019 Table 6.

i. V.

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Engineer in charge