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Ha-50  
Dresden, 18 August 2016

## Test Report

### Order no. 2516356

**Client:** Unilin Flooring BVBA  
Oigemstraat 3  
08710 Wielsbeke; Belgium

**Date of order:** 21 July 2017

**Order:** Determination of the formaldehyde release of engineered wood flooring based on the test chamber method DIN EN 717-1

**Contractor:** Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH)  
Zellescher Weg 24  
01217 Dresden

**Engineer in charge:** Dipl.-Ing. (FH) S. Hahn



Prof. Dr. habil. M. Beyer  
Head of Laboratory Chemical Testing

The test report contains 2 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material.

## 1 Assignment

The laboratory chemical testing of the EPH was instructed to determine the formaldehyde release of one variant of engineered wood flooring (Parquet) based on the test chamber method DIN EN 717-1.

## 2 Sample material

<b>Sample No.</b>	<b>1</b>
<b>Material:</b>	engineered wood flooring (Parquet)
<b>Description:</b>	14mm Unilin Engineered Wood Flooring
<b>Dimension LWH [mm]:</b>	4 pcs. à 915 x 290 x 14

Delivery date: 21 June 2016 (airtight wrapped)

The test material is stored for 3 months.

## 3 Investigations carried out

The determination of the formaldehyde release based on DIN EN 717-1 was carried out under the following test conditions:

<b>Sample 1</b>	<b>Test Piece Size [mm]:</b>	280 x 200 x 14 (2 x 2 pcs. back to back)	
<b>Test chamber:</b>	KT-40 (V = 0.225 m <sup>3</sup> )	<b>Temperature:</b>	23°C ± 0.5 K
<b>Test period:</b>	2016/08/08 – 2016/08/17	<b>Rel. air humidity:</b>	45 ± 3 %
<b>Start tests:</b>	2016/08/09	<b>Air exchange ratio:</b>	1.0 ± 0.05/ h
<b>Edge sealing:</b>	Full	<b>Loading ratio:</b>	1.0 ± 0.02 m <sup>2</sup> /m <sup>3</sup>

## 4 Test results and valuation

Sample	Formaldehyde release DIN EN 717-1		Criteria E1 – Quality <sup>1</sup> fulfilled	
	[ppm]	[mg/m <sup>3</sup> ]	YES	NO
1	0.02 (216 h)*	0.02 (216 h)*	X	

Abort criteria acc. to DIN EN 717-1: the linear regression curve from the results of 4 days does not rise more than 2 µg/m<sup>3</sup>

Detection limit (DL) of test method: 0.01 ppm (1 ppm = 1.24 mg/m<sup>3</sup>)

Dipl.-Ing. (FH) S. Hahn  
Engineer in charge

<sup>1</sup> Valuation basis Formaldehyde DIN EN 14342, Annex A.1	Limit value ≤ 0.124 mg/m <sup>3</sup> (EN 717-1)
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