

Entwicklungs- und Prüflabor Holztechnologie GmbH - Zellescher Weg 24 - 01217 Dresden - Germany

QINGDAO HSIAN WOOD CO., LTD.

Wu. Fu Lu
Dachang Town
Hongshan District
Qingdao City
Shandong Province
266104 China

Entwicklungs- und Prüflabor
Holztechnologie GmbH
Zellescher Weg 24
01217 Dresden - Germany

Phone: +49 351 4662 0
Fax: +49 351 4662 211
info@eph-dresden.de
www.eph-dresden.de

Dresden, 12/07/2018

MPET

Test Report Order No. 278003/111/1

Client:

QINGDAO HSIAN WOOD CO., LTD.
Wu. Fu Lu
Dachang Town
Hongshan District
Qingdao City
Shandong Province
266104 China

Date of order:

06/06/2018

Order:

Testing of a Engineered wood flooring
according to EN 14342:2013 for CE-labelling

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 Notified Body (No. 0766) Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) was instructed by QINGDAO YIMAN WOOD CO., LTD. in Qingdao City / CHINA to carry out selected tests of a Engineered wood flooring according to EN 14342:2013 for CE-labelling.

2 Test material

The client has sent following variant of a Engineered wood flooring (arrival at the EPH-laboratory 06/06/2018):

Engineered wood flooring
Top layer: Oak 3 mm
Basic layer: Plywood (Birch) 7 mm
Dimensions: 1200 mm x 160 mm x 10 mm

Furthermore a manufacturer's information report with an overview about the collection was sent.

3 Test performance

3.1 Determination of the formaldehyde emission according to the test chamber method

The determination of the formaldehyde emission was carried out according to the test chamber method DIN EN 717-1:2005 during the period from 18/06/2018 to 27/06/2018.

Two pieces of the Engineered wood flooring with the dimensions 280 mm x 200 mm were jointed back to back and the edges were sealed. Two of those samples with a total surface of 0.224 m² were put into the test chamber.

The formaldehyde emission was determined at the following conditions:

Test start:	19/06/2018
Temperature:	23 °C ± 0.5 K
Relative air humidity:	(45 ± 3) %
Air flow velocity:	0.3 m/s

The detection limit of the applied method is 0.01 ppm formaldehyde (1 ppm = 1.24 mg HCHO/m³).

3.2 Determination of the PCP content

The determination of the PCP content of Engineered Wood Flooring was carried out according to CEN/TR 14823:2004 in connection with the institute's standard IHD-W-409 by gas chromatography and ECD-detection subsequent to extraction of the material. Quantification was made using external standards.

The detection limit (d. l.) of the analysis method is 0.05 mg/kg.

The test was carried out on 19/06/2018.

4 Results

4.1 Formaldehyde emission according to EN 717-1:2005

Formaldehyde emission in	
mg/m ³	ppm
< d. l. (216 h)	< d. l.

d. l. = detection limit

4.2 PCP content according to CEN/TR 14823:2004


PCP content in mg/kg
< d. l.

d. l. = determination limit

5 Evaluation

The tested variant of a Engineered wood flooring can be classified regarding to both properties according to EN 14342:2013 for the CE-labelling as follows:

Property	Results	Declaration according to EN 14342:2013
Formaldehyde emission according to EN 717-1:2005	undetectable	class E1
Content of PCP according to CEN/TR 14823:2004	undeterminable	PCP $\leq 5 \times 10^{-6}$ n


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