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Durch die Deutsches Akkreditierungssystem Prüfwesen GmbH
nach DIN EN ISO/EC 17025 akkreditiertes Prüflaboratorium

DAP-PL-1033.00

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Dresden, 28 November 2008
70-em/ha/pe

Test report Order No. 278289

Customer: CV Jati Makmur
Jalan Raya Bukir No 55
Pasuruan, - Jawa Timur
Indonesia

Date of order: 09 September 20087

Order: Testing of parquets for CE-labelling

Institution: EPH – Laboratory Surface Testing

Engineer in charge: Dipl.-Ing. (FH) M. Hanitzsch

Dr.-Ing. R. Emmeler
Head of Laboratory Surface Testing

The test report contains 3 pages and 1 annex with 42 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 (Nr. 766) Entwicklungs- und Prüflabor für Holztechnologie GmbH (EPH) was instructed by CV Jati Makmur (Indonesia) to carry out selected tests of parquets for CE-labelling according to EN 14342.

2 Test material

The costumer has sent two different variants of parquets (arrival at the EPH-laboratory: 10 September and 16. October 2008). The variant was marked as following for the test of:

- Var. 1: Solid Wood parquet, Merbau, lacquered, dimensions: 600 x 90 x 15 mm
- Var. 2: Solid Wood parquet, Teak, lacquered, dimensions: 450 x 90 x 15 mm

3 Test performance

3.1 Test of the fire resistance

The fire resistance tests were carried out according to EN ISO 11925-2 and EN ISO 9239-1 at the Notified Fire Testing Body MPA Dresden. The results were classified according to EN 13501-1.

3.2 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 during the period from 17.10.2008 until 29.11.2008.

Four pieces of the parquet with the dimension 280 mm x 200 mm were jointed back to back and the edges were sealed. In each case, 2 of those samples with a total surface of 0,224 m² were put into the 0,225 m³ test chamber.

The formaldehyde emission was determined at the following conditions:

- Test start 20.10.2008 (Var. 1), 24.11.2008 (Var. 2)
- 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).

4 Results

4.1 Fire resistance

Variant	Critical heat flux in kW / m ²	Integral smoke obscuration in % x min	Fire classes according to EN 13501-1 or EN 14342
1	9,06	5,77	B _{fl} -s1
2	4,45	26,94	D _{fl} -s1

A classification report with the results of the variants 1 and 2 is Annex 1 to this test report.

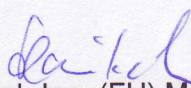
4.2 Formaldehyde emission according to the test chamber method

Variant	Formaldehyde emission in:	
	mg/m ³	ppm
1	0,01 (288 h)	0,01 (288 h)
2	< 0,01 (96 h)	< 0,01 (96 h)

5 Evaluation

The tested variants of parquets can be classified regarding to several properties according to the CE-labelling (EN 14342) as follows:

Variant	Property	Result	Declaration according to EN 14342
1	Fire resistance according to EN 13501-1		
	Critical heat flux:	9,06 kW / m ²	B _{fl} -s1
	Smoke obscuration:	5,77 % x min	
2	Critical heat flux:	4,45 kW / m ²	D _{fl} -s1
	Smoke obscuration:	26,94 % x min	
1	Formaldehyde emission according to EN 717-1	0,01 ppm	class E1
2		< 0,01 ppm	class E1


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