



INSTYTUT TECHNOLOGII DREWNA

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AB 088



CHEMICAL TESTING SECTION

WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE, WOODEN CONSTRUCTIONS AND WORKING MACHINE TESTING LABORATORY

Poznan, 23rd March, 2017

TEST REPORT No. 815/2017 (S.C)

Subject of the order Determination of formaldehyde content with the perforator
method in *fibreboard* (3.2mm)
(INTERNAL ORDER No 971/CCWPD/2017, 10th March, 2017)

Order No A- 815-BMD/2017

**Name and address
of the client/manufacturer
producer** Centrum Certyfikacji Wyrobów Przemysłu Drzewnego.
ul. Winiarska 1
60-654 Poznań

Performance date 22nd March, 2017

Operators

First name and surname	Signature
Karolina Mytko	

Laboratory stamp
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Authorised representative

Assoc. Prof. Iwona Frąckowiak, PhD(Eng)

1 IDENTIFICATION (DESCRIPTION) OF THE TESTED OBJECT/OBJECTS

The tested object was fibreboard. Three samples of the board of the dimensions of 500x500mm and nominal thickness of 3.2mm were taken for tests. The board producer is „Uniplyt” Zavodskaya str. 4, UA-77552 Vygoda, Dolina district, Ivano-Frankivsk region, Ukraine. Samples were taken by ITD auditor, date of sampling: 1st March, 2017.

2 DATE THE OBJECTS WERE RECEIVED FOR TESTING

10th March, 2017

3 SYMBOLS AND NAMES OF THE TEST METHODS APPLIED

Tests were conducted in accordance with the PN-EN ISO 12460-5:2016-02 Wood-based panels- Determination of formaldehyde release – Part 5: Extraction method (called the perforator method) - 1C method and according to IOS-TM-0010 (version AA-325858-2) dated 13 May 2011.
EN 322: 1993 *Wood-based panels- Determination of moisture content*

4 LIST OF MEASURING AND TEST APPARATUSES/MATERIALS

The following equipment was used for the tests:

- laboratory scales - WPS 360 – RADWAG; room A217, testing stand C2,
- spectrophotometer - SPEKOL 1500 – Analytik Jena , room A217 testing stand C8,

5 TEST RESULTS

Test results are shown in Table 1.

According to EN 622-1 : 2003 *Fibreboards – Specifications – Part1: General requirements* – formaldehyde content (perforator value) for class E1 should be ≤ 8 mg/100 g.

Perforator value refers to panels with moisture content H = 6,5%.

According to IKEA Specification “ISO-MAT-0003:2009-10-09, Version no AA-10899-9” the limit values are as follows:

– perforator method: uncoated boards:

- ≤ 4.0 mg HCHO/100g oven-dry board for particleboard
- ≤ 5.0 mg HCHO/100g oven-dry board for dry process fibreboard excluding for flooring, e.g. MDF, HDF, LMDF
- ≤ 8.0 mg HCHO/100g oven-dry board for dry process fibreboard used for IKEA flooring, e.g. MDF, HDF
- ≤ 4.0 mg HCHO/100g oven-dry board for wet process fibreboard if produced with formaldehyde resins (UF, MUF), e.g. hardboard, medium board, softboard and OSB
- ≤ 2.0 mg HCHO/100g oven-dry board for OSB and wet process fiberboard produced with PF or EPI resins (see Table 2.1.A, part 1 and 2, Table 2.1.E, Table 2.1.F)

finished material (tested after removing the coating):

- ≤ 5.0 mg HCHO/100g oven-dry board for finished particleboard
- ≤ 6.0 mg HCHO/100g oven-dry board for finished MDF/HDF non-flooring
- ≤ 10 mg HCHO/100g oven-dry board for finished MDF or HDF for flooring (see Table Appendix 2)

6 STATEMENT

Test results shown in Table 1 refer only to the tested samples. Test report can be copied only in its entire form and cannot be copied in parts. We draw the attention to the fact that the effected test was made as a material parameter and not as a classifying test.

Order No. : A-815-BMD/2017

Tested material: **fibreboard** – 3.2mm thick

Producer: „Uniplyt” Zavodskaya str. 4, UA-77552 Vygoda, Dolina district, Ivano-Frankivsk region, Ukraine.

Date of sampling: 1st March, 2017

Table 1

Formaldehyde content (perforator value)

Tested material	Date of test	Moisture (%)	Perforator value (mg/100g dry board)	
			A	B
fibreboard	22 nd March, 2017	1.9	0.2*	-

*Uncertainty extended of the results is $\pm 0,04$ at confidence level of 0,95.

A – determined perforator value

B – calculated perforator value at a moisture content of 6,5%

Operators:

K. Mytko



Supervised by:

I. Frąckowiak.....



Poznan, 23rd March, 2017

THE END