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TEST REPORT No. BBC 14-235

12 10 2014
Vilnius

Determination of formaldehyde release of the edge glued pine wood panel according to IKEA specification *IOS-MAT-0003* requirements

Customer	ECOBIRCH AS
Address of customer	Niidu 11, 80010, Pärnu, Estonia
Application for test	07 10 2014
Date of selected test object	07 10 2014
Date of receive test object	09 10 2014
Manufacturer	ECOBIRCH AS
Address of manufacturer	Niidu 11, 80010, Pärnu, Estonia
Indication of normative document for test method	EN 717-2:1994 with corrigendum EN 717-2:1994/AC:2002, EN 322:1993
Date of test	10 10 2014 (beginning) 12 10 2014 (end)

Conclusion:

On the basis of the results presented in the Table 1 it is stated that the tested edge glued pine wood panel, 18 mm thickness, **fulfills** the IKEA requirements, specified *IOS-MAT-0003 version No AA-10899-9 of 2009-10-09 „Formaldehyde requirements of wood based materials and products”*, because the formaldehyde release from the tested product does not exceed the limit value of 0,6 mg/m³h.



Test object's description:

235/01 – edge glued pine wood panel, 18 mm thickness, production date – 02 10 2014.
 Glue: AKZO NOBEL Casco adhesives 3353 PVAc

Before the tests samples were stored without unpacking in the atmosphere of $(23 \pm 2)^\circ\text{C}$.

Test method:

EN 717-2:1994 with corrigendum EN 717-2:1994/AC:2002 Wood-based panels – Determination of formaldehyde release – Part 2: Formaldehyde release by the gas analysis method.
 EN 322:1993 Wood-based panels – Determination of moisture content.

Test apparatuses:

Gas analysis test apparatus - samples tested either with FAPE/+60, made by Weiss Umwelttechnik GmbH, Germany and with TimberTest CCAM-4000, New Zeland.
 Spectrophotometer – type CT-2300 , made by ChromTech, Thailand.
 Precision balance – Competence CP 323 S-OCE, made by Sartorius, Germany.
 Water bath – WB-7, made by Memmert, Germany.
 Universal oven – BASIC UFB 400, made by Memmert, Germany.

Test results:

Table 1. Formaldehyde emission

Sample's description	Moisture content, %	Test date	Gas analysis value, HCHO mg /m ² h	
			individual value	mean value
235/01 – edge glued pine wood panel, 18 mm thickness	10,2	10 10 2014	0,34	0,4
		10 10 2014	0,39	
Confidence interval of the actual formaldehyde concentration with probability of 95%, k=2 (0,4 ± 0,02) mg/m²h				

Head of furniture testing centre

J. Mickiene

Tests were carried by chemist

J. Giedriene



The test results is relate only to the tested items.

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