

Fraunhofer WKI | Bienroder Weg 54 E | 38108 Braunschweig | Germany

AGROP NOVA a.s.
Ptensky Dvorek 99
798 43 Pteni
Czech Republic

Fraunhofer Institute for Wood Research
Wilhelm-Klauditz-Institut WKI

Director (acting)
Prof. Dr. Tunga Salthammer

Dipl.-Ing. Harald Schwab
Head of the Testing, Supervision and
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Quality Assessment QA
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Your reference

Your message dated

Our reference
Mey

Braunschweig, 15 June 2010

Test report No. QA-2010-1621

Customer:	AGROP NOVA a.s. Ptensky Dvorek 99 798 43 Pteni Czech Republic	
Receipt of sample:	12 May 2010	
WKI-ID-No.:	560/10	
Date of test:	14 June 2010	
Objective of the test:	Determination of formaldehyde release	
Content of the test report:	1. Task and test material	Page 2
	2. Execution of the test	Page 2
	3. Test results	Page 2

This test report comprises 2 pages and 1 table.

This test report is not permitted to be published incompletely. A publication in extracts is in any case subject to the previous consent of Fraunhofer-Institut für Holzforschung, Wilhelm-Klauditz-Institut (WKI), Bienroder Weg 54E in Braunschweig (Germany).

The test results exclusively refer to the objects of the test. The test material was used up.

Durch die oberste Bauaufsichtsbehörde anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle CARB notified TPC 4 EC notified 0765	Akkreditierte Inspektionsstelle DAC-IS-0009-08 Prüfstelle DAP-PL-2071.00
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Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V., München
Executive Board
Univ.-Prof. Dr.-Ing. habil. Prof. e.h. mult. Dr. h.c. mult. Hans-Jörg Bullinger, President
Prof. Dr. rer. nat. Ulrich Buller
Prof. (Univ. Stellenbosch) Dr. rer. pol. Alfred Gossner

Cheques and transfers payable to:
Deutsche Bank, München
Account 752193300 BLZ 700 700 10
IBAN DE86 7007 0010 0752 1933 00
BIC (SWIFT-Code) DEUTDEMM
V.A.T. Ident No. DE129515865
Tax Number 143/215/20392

1. Task and test material

The Fraunhofer-Institut für Holzforschung, Wilhelm-Klauditz-Institut (WKI), was entrusted by Messrs. AGROP NOVA a.s. in 798 43 Pteni (Czech Republic) with the determination of the formaldehyde release, description of sample(s) see table(s) enclosed. The test material was selected, marked by the client and delivered to the WKI for examination.

2. Execution of the test

The test material arrived at WKI packed in polyethylene foil on 12 May 2010, was marked with WKI-ID-No. "560/10" and stored under room conditions before starting the four-week conditioning period.

The determination of the formaldehyde release was carried out after a four-week conditioning period of the samples according DIN 50 014 – 20/65- using the gas analysis method DIN EN 717-2:1995-01. The sample size was 400 mm x 50 mm x thickness. The edges of the test pieces were coated with self-adhesive aluminium tape before testing. Moisture content was determined according to DIN EN 322:1993-08.

3. Test results

The table enclosed to the test report shows the formaldehyde values of the tested sample(s). They are specified as individual values and as a mean value of repeated determinations.

According to the German Prohibition for Chemical Products – "Chemikalien- Verbotsverordnung" – annex § 1, para 3, in relation with the publication of the Federal Health Office in the journal "Bundesgesundheitsblatt", issue October 1991 (p. 487 – 489), the limit value for uncoated plywood and blockboard samples after a four-week conditioning period is a gas analysis value of ≤ 3.5 mg HCHO/(h·m²).

We draw your attention to the fact that the effected test was made as a material parameter and not as a classifying test.



Bettina Meyer
Official in charge



Dipl.-Ing. Harald Schwab
Head of Testing, Supervision and
Certifying Body

Table: Formaldehyde release of (a) sample(s) ordered by
Messrs. AGROP NOVA a.s. in 798 43 Ptení (Czech Republic)

Date of receipt: 12 May 2010

Date of test: 14 June 2010

WKI-ID- No.	Specimen	thick- ness mm	moisture content %	gas analysis value* mg HCHO/(h·m ²)	
				individual values	average value
560/10	"Agrop sample 1 Product code: 1216/2545/4490 Manufacturer: Agrop Nova a.s. Date stamp: 24.3.2010" - three layer board, uncoated	19	10.9	0.4 0.3	0.4

* tested with sealed edges after 4 week preconditioning

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Mey

Braunschweig, 15 June 2010

Test report No. QA-2010-1622

Customer:	AGROP NOVA a.s. Ptensky Dvorek 99 798 43 Pteni Czech Republic	
Receipt of sample:	12 May 2010	
WKI-ID-No.:	561/10	
Date of test:	14 June 2010	
Objective of the test:	Determination of formaldehyde release	
Content of the test report:	1. Task and test material	Page 2
	2. Execution of the test	Page 2
	3. Test results	Page 2

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The test results exclusively refer to the objects of the test. The test material was used up.

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2. Execution of the test

The test material arrived at WKI packed in polyethylene foil on 12 May 2010, was marked with WKI-ID-No. "561/10" and stored under room conditions before starting the four-week conditioning period. The determination of the formaldehyde release was carried out after a four-week conditioning period of the samples according DIN 50 014 – 20/65- using the gas analysis method DIN EN 717-2:1995-01. The sample size was 400 mm x 50 mm x thickness. The edges of the test pieces were coated with self-adhesive aluminium tape before testing. Moisture content was determined according to DIN EN 322:1993-08.

3. Test results

The table enclosed to the test report shows the formaldehyde values of the tested sample(s). They are specified as individual values and as a mean value of repeated determinations.

According to the German Prohibition for Chemical Products – "Chemikalien- Verbotsverordnung" – annex § 1, para 3, in relation with the publication of the Federal Health Office in the journal "Bundesgesundheitsblatt", issue October 1991 (p. 487 – 489), the limit value for uncoated plywood and blockboard samples after a four-week conditioning period is a gas analysis value of ≤ 3.5 mg HCHO/(h·m²).

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Messrs. AGROP NOVA a.s. in 798 43 Ptení (Czech Republic)

Date of receipt: 12 May 2010

Date of test: 14 June 2010

WKI-ID- No.	Specimen	thick- ness mm	moisture content %	gas analysis value* mg HCHO/(h·m ²)	
				individual values	average value
561/10	"Agrop sample 2 Product code: 1216/2532/4490 Manufacturer: Agrop Nova a.s. Date stamp: 24.3.2010" - three layer board, uncoated	19	11.3	0.2 0.4	0.3

* tested with sealed edges after 4 week preconditioning