

JSC Cherepovets Plywood & Furniture Plant
 Proyezhaya Str. 4
 162604 Cherepovets
 Russia

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Your reference

Your message dated

 Our reference
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 Braunschweig,
 15 August 2016

Test Report No. QA - 2016 - 2134

Client:

JSC Cherepovets Plywood & Furniture Plant
 Proyezhaya Str. 4
 162604 Cherepovets
 Russia

Objective of the test:

Supervision of uncoated wood based materials according to the Final Regulation Order of Airborne Toxic Control Measure to Reduce Formaldehyde Emission from Composite Wood Products, 93120-93120.12, title 17, California Code of Regulations, § 93120 -Quarterly gas analysis test - Quarter 2/2016.

Product name:

Birch Plywood

WKI-Identity-Number:

3187

Content of the test report:

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The test report comprises 3 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 38108 Braunschweig (Germany). The test results exclusively refer to the objects of the test. The test material was used up.



1. Task

Messrs. JSC Cherepovets Plywood & Furniture Plant in 162604 Cherepovets (Russia) assigned WKI to determine by measurements the formaldehyde emission potential of wood based panels according to the requirements published by CARB referring to the Final Regulation Order of Airborne Toxic Control Measure to Reduce Formaldehyde Emission from Composite Wood Products, 93120-93120.12, title 17, California Code of Regulations, § 93120.

A supervision contract with No. 0697 dated 6 January 2009 was signed by the customer.

According to § 93120, Appendix 2 (f)(3)(A) the quarterly chamber test has to be carried out for uncoated wood based panels by using the primary or secondary test method for each production line of each plant - see test report Nr. QA-2016-2133 dated 15 August 2016.

Additionally the determination of formaldehyde release was carried out according to gas analysis method EN 717-2:1995-01 used as factory quality control test method.

A correlation has been established between the quality control test method and the primary, secondary, or alternate secondary test method. The correlation was based on a minimum sample size of five data pairs (Appendix 2 (f)(2)) - see test report No. QA-2009-0004 dated 7 January 2009.

2. Test material and data of receipt

Product:	plywood,unfaced
Product name:	Birch Plywood
Technical class:	CARB Phase 2
Plant:	JSC Cherepovets Plywood & Furniture Plant in 162604 Cherepovets, Russia
Thickness (mm):	18
Thickness range (mm):	2 ≤ 40
WKI-Identity-Number:	3187
Production date:	21 June 2016

The sample material was selected and marked by a WKI's representative on 22 June 2016 and sent to the WKI for examination.

The samples arrived at WKI packed separately in polyethylene plastic foil and stored under room conditions. Table 1 shows the data of receipt and test. The test material was used up.

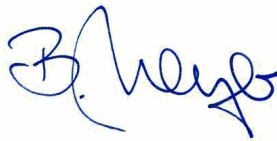
3. Execution of the test

The determination of formaldehyde release was carried out without a prior conditioning according to 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. The determination of formaldehyde release was carried out for samples after receipt without a prior conditioning.

4. Test results

In the table enclosed to the test report the data of receipt are mentioned and the formaldehyde release value of the tested sample is specified as an average value representing three boards tested.

A supervision contract exists.



Bettina Meyer
Official in charge



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

Table: Test material, data of receipt, test results
- Quarterly gas analysis test - 2/2016

Product: plywood,unfaced
 Product name: Birch Plywood
 Technical class: CARB Phase 2
 Plant: JSC Cherepovets Plywood & Furniture Plant
 in 162604 Cherepovets, Russia
 Thickness (mm): 18
 WKI-Identity-Number: 3187
 Production date: 21 June 2016
 Audit date: 22 June 2016

Test material, data of receipt and test			
Sample-ID	Number of boards	Data of receipt	Test date
			Gas analysis method EN 717-2:1995-01
3187	3	1 July 2016	7 July 2016

Test results formaldehyde release according to gas analysis method EN 717-2			
Sample-ID	Thickness [mm]	Moisture content [%]	Formaldehyde release* [mg HCHO/(h·m ²)]
3187	18	5.2	0.1

* average value of 3 boards tested; tested with sealed edges and without preconditioning as single determinations