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Test Report No. QA-2017-2665

Client:

SIA "KRONOSPAN Riga"
Daugavgrivas soseja 7B
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**Method and object
of the test:**

External supervision of wood based materials regarding formaldehyde
content

**Content of the
test report:**

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The test report comprises 3 pages and 1 appendix.

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



1. Task

External supervision of wood based materials according to the "Regulation on the classification and external supervision of wood-based panels regarding formaldehyde emission (DIBt-Richtlinie 100)" version June 1994 resp. to the "Regulation on the Prohibition of Chemicals [Chemikalien-Verbotsverordnung (ChemVerbotsV)]" using the perforator method.

The supervision is done according to the contract 0737 dated 19 October 2009 between the client and the WKI; corresponding to this contract the attestation no. 737 is valid for the supervision period mentioned.

2. Material

Type of wood-based panels:	particleboard, melamine-urea-formaldehyde (MUF), unfaced
Technical type:	EN 312, P3; DIBt 100, E1
Plant category:	Particleboard type P3
Thickness [mm]:	16
Thickness range [mm]*:	$12 \leq 25$
Identity No.:	8299

*Reference note:

According to the DIBt-Richtlinie 100 the manufacturer is allowed to differentiate between the following thickness ranges in order to enable him to restrict test and evaluation criteria: up to 12 mm, more than 12 mm up to 25 mm, more than 25 mm up to 40 mm, more than 40 mm up to 60 mm, more than 60 mm.

The boards were sampled on 29 August 2017 by a WKI's representative. Referring to the information given by the customer the samples were produced on 17 August 2017. The sampling was carried out in accordance with the DIBt-Guideline 100. The tests were carried out on 13 October 2017. The test material was used up.

3. Test methods

The determination of formaldehyde content was carried out without a prior conditioning of the samples according to the perforator method EN ISO 12460-5. Moisture content was determined according to ISO 16979.

4. Test results

The test results are made up in the following table. The perforator values are mean values of a double testing. Non of the three mean values of the boards may exceed the limit value of 8.0 mg HCHO/100 g dry board by more than 10 %. (General limit values see appendix)

Identity No.	Thickness [mm]	Density [kg/m ³]	Moisture content [%]	Perforator value [mg HCHO/100 g dry board]	
				A	B
8299/1	16	692	6.2	4.5	4.7
8299/2	16	640	6.3	4.4	4.5
8299/3	16	691	6.4	4.1	4.1
\bar{x}		674	6.3	4.3	4.4

A = determined perforator value

B = perforator value converted to 6,5 % moisture content

Concerning the formaldehyde release the requirements were fulfilled.



Dipl.-Ing. (FH) Kathrin Huslage
Official in charge



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

Appendix (Assessment criteria)

According to the German Prohibition for Chemical Products – “Chemikalien-Verbotsverordnung“ (ChemVerbotsV) – annex § 1, para 3, in relation with the publication of the Federal Health Office in the journal "Bundesgesundheitsblatt", issue October 1991 (p. 487 – 489) and the "Regulation on the classification and external supervision of wood-based panels regarding formaldehyde emission (DIBt-Richtlinie 100)" version June 1994 the limit values are as follows:

	Formaldehyde content ^{*)}	
	Perforator method [mg HCHO/100 g dry board]	
	average value	single value
uncoated particleboard	6,5	8,0
uncoated fibreboard	7,0	8,0

^{*)} the average value is defined as rolling half year value, the single value is defined as 95% percentile

The values are valid after a conversion to a material humidity of 6.5 %.

Uncoated boards with perforator values > 8 and < 10 mg HCHO/100 g dry board may only be put in circulation with special labeling.