

Bruno Srl  
 Corso Francia 7/G  
 Mondovi  
 ITALY

Eurofins Product Testing A/S  
 Smedeskovvej 38  
 8464 Galten  
 Denmark

CustomerSupport@eurofins.com  
 www.eurofins.com/VOC-testing

## VOC EMISSION TEST REPORT


### Indoor Air Comfort GOLD<sup>®</sup>

20 August 2019

#### 1 Sample Information

Sample name	multistrato / multilayer CARB LegnoAria+
Batch no.	-
Production date	10/06/2019
Product type	Wooden parquet
Sample reception	24/06/2019

#### 2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation		Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
Italian CAM	Pass	Decree 11 January 2017 (GU n.23 del 28-1-2017)
AgBB/ABG	Pass	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes (ABG), Entwurf 31.08.2017
Belgian Regulation	Pass	Royal decree of May 2015 (C-2014/24239)
Indoor Air Comfort <sup>®</sup>	Pass	Indoor Air Comfort 6.0 of February 2017
Indoor Air Comfort GOLD <sup>®</sup>	Pass	Indoor Air Comfort GOLD 6.0 of February 2017
Formaldehyde Emission Class <sup>§</sup>	E1	EN 16516 - October 2017
BREEAM International	Compliant	GN22 v2.3 (March 2018): BREEAM Recognised Schemes for VOC Emissions from Building Products
LEED v4 (outside U.S.)	Compliant	LEED v4 for Building Design and Construction (April, 2015)
BREEAM <sup>®</sup> NOR	Pass	BREEAM-NOR New Construction v1.1 (May 2017)

Full details based on the testing and direct comparison with limit values are available in the following pages



Maria Pelle Madsen  
 Analytical Chemist



Janne Rothmann Norup  
 Analytical Service Manager

The results are only valid for the tested sample(s).

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# Attestation

On 24 June 2019, Eurofins Product Testing A/S received a sample of wooden parquet with the product name:

**multistrato / multilayer CARB LegnoAria+**

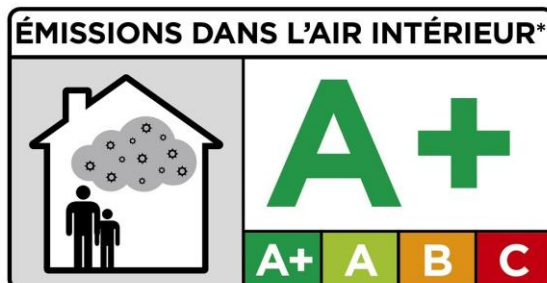
supplied by

**Bruno Srl**

The product was tested for VOC emissions according to the requirements of the French legislation (order of April 2011) concerning the labeling of construction products or coverings of walls or floors and paint and varnishes on their emissions of volatiles pollutants.

Sampling, testing and evaluation were performed according to ISO 16000 in its latest versions, see test report no. 392-2019-00245701\_A\_EN.

**In accordance with legislative requirements, the test results can be summarized as follows:**



\*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

The product was assigned a VOC emission class without taking into account the measurement uncertainty associated with the result. As specified in French Decree no. 2011-321 of March 23, 2011, correct assignment of the VOC emission class is the sole responsibility of the party responsible for distribution of the product in the French market.

20 August 2019



Maria Pelle Madsen  
Analytical Chemist



Janne Rothmann Norup  
Analytical Service Manager

# Attestation

## DE-UZ 176

On 24 June 2019, Eurofins Product Testing A/S received a sample of wooden parquet with the product name:

**multistrato / multilayer CARB LegnoAria+**

supplied by

**Bruno Srl**

The emissions were tested according to DE-UZ 176. Sampling, testing and evaluation were performed according to EN 16516, ISO 16000-3, ISO 16000-6, ISO 16000-9, ISO 16000-11, ISO 16017-1 in the latest versions, see the test report no. 392-2019-00245701\_A\_EN.

### **Evaluation of the emission test result according to DE-UZ 176:**

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- Carcinogenic substances were not detectable after 3 and after 28 days.
- The sum of VOC ("TVOC") after 3 days was below the limit of 3 mg/m<sup>3</sup>.
- The sum of VOC ("TVOC") after 28 days was below the limit of 0.3 mg/m<sup>3</sup>.
- The sum of SVOC after 28 days was below the limit of 0.1 mg/m<sup>3</sup>.
- After 28 days the value R was calculated from the detected VOC with single concentrations above 5 µg/m<sup>3</sup>. This value R was below the limit of 1.
- The sum of VOC without LCI-value after 28 days was below the limit of 0.1 mg/m<sup>3</sup>.
- The sum of formaldehyde after 28 days was below the limit of 0.05 ppm.

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This attestation does not entitle to use the Blue Angel DE-UZ 176 label. For the use of the DE-UZ 176 label a license has to be applied for at the RAL.

A license can only be granted for ready-to use products if some additional requirements on contents of certain chemicals are fulfilled.

3 September 2019



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Janne Rothmann Norup  
Analytical Service Manager