Attestation

AgBB

On 21/03/2016, Eurofins Product Testing A/S received a sample of a PVC flooring with the product name:

**sphera**
supplied by

**Forbo Novilon B.V.**

The emissions were tested according to AgBB and the guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology). Sampling, testing and evaluation were performed according to ISO 16000-3, ISO 16000-6, ISO 16000-9, ISO 16000-11, ISO 16017-1 in the latest versions, see the test report no. 392-2016-00117101_D_EN.

**Evaluation of the emission test result according to AgBB:**

- Carcinogenic substances were not detectable after 3 and after 28 days.
- The sum of VOC ("TVOC") after 3 days was below the limit of 10 mg/m³.
- The sum of VOC ("TVOC") after 28 days was below the limit of 1 mg/m³.
- The sum of SVOC after 28 day was below the limit of 0.1 mg/m³.
- After 28 days the value R was calculated from the detected VOC with single concentrations above 5 µg/m³. 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/m³.
- Formaldehyde after 28 days was below the limit of 120 µg/m³.

**The tested product complies with the requirements of DiBt (October 2010) in combination with the NIK values from AgBB (February 2015) for use in the indoor environment.**

09 May 2016

Janne R. Norup
Chemist

Søren Ryom Villadsen
Analytical Service Manager
Attestation

On 21/03/2016, Eurofins Product Testing A/S received a sample of a PVC flooring with the product name:

sphera
supplied by
Forbo Novilon B.V.

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. 392-2016-00117101_E_EN.

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

*ÉMISSIONS DANS L'AIR INTÉRIEUR*

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.

09 May 2016

Janne R. Norup  
Chémist

Søren Ryom Villadsen  
Analytical Service Manager
On 21/03/2016, Eurofins Product Testing A/S received a sample of PVC flooring with the product name:

sphera

supplied by

Forbo Novilon B.V.

The sample was supplied as being representative of the manufactured product, and it has been tested as flooring in accordance with the relevant ISO 16000 and CDPH testing standards and against specific additional VOC as listed in CDPH of 2004 Section 9 §1a) "Section 01350 / CRI Green Label Plus" (See test report no. 392-2016-00117101_H_EN).

The test results of the tested flooring indicate that the product qualifies for LEED v4 and LEED 2009 specifications on VOC emissions by complying with:

VOC emissions specifications in LEED EQ credit "Low-emitting products":
- the requirements of DIBt (October 2010) and AgBB (June 2012), and the formaldehyde limit of 10 μg/m² after 28 days
- the requirements of CDPH-IAQ (California Department of Public Health, Feb 2010); and a TVOC below 0.5 mg/m³ in both office and class room.

9 May 2016

Janne R. Norup
Chemist

Søren Ryom Villadsen
Analytical Service Manager
VOC TEST REPORT
Belgian Regulation
09 May 2016

1 Sample Information

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2 Brief Evaluation of the Results

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

Jannie R. Norup
Chemist

Søren Ryom Villadsen
Analytical Service Manager

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Forbo Novilon B.V.
De Holwert 12
7741 KC Coevorden
NETHERLANDS

VOC TEST REPORT
AgBB
09 May 2016

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Janne R. Norup
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VOC TEST REPORT
CDPH
09 May 2016

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Jannie R. Norup
Chemist

Søren Ryom Villadsen
Analytical Service Manager
VOC TEST REPORT
French VOC Regulation
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