AIDIMME
Technology Institute

Sample reference: 2504055-01
Order Sheet: 22501772

TEST REPORT 221.I.2506.725.EN.01

AT THE REQUEST OF:

COMPANY:	**GREENMOOD HQ**
ADDRESS:	**ATOMIUMSQUARE 1**
TOWN (COUNTRY):	**1020 – BRUSSELS (BELGIUM)**

1. DESCRIPTION AND IDENTIFICATION OF THE SAMPLE. INSPECTION BEFORE TESTING

The test is carried out on a sample of covering panel. The sample is received packed in polyethylene film.

Sample data (information provided by the client):

Kind of product:	COVERING PANEL
Type:	FIREPROOF CORK DECORATIVE PANEL
Thickness:	5-21 mm
Density:	406,7 kg/m^3
Date of production:	The client does not refer additional information.
Application:	WALL/CEILING COVERING

The sample is referenced by AIDIMME as:

- Ref. 2504055-01

2. ORIGIN OF THE SAMPLES

The sample was supplied by the client.

3. TESTS REQUESTED

Determination of Volatile Organic Compounds (VOC) emission according to the standards ISO 16000 [3-6-9-11], Grenelle Law (Décret Nº 2011-321 du 23 mars 2011 relatif à l'étiquetage des produits de construction ou de revêment de mur ou de sol et des peintures et vernis sur leurs émissions de polluants volatils).

4. STANDARD TEST METHOD

- ISO 16000-3:2001
- UNE ISO 16000-6:2004
- UNE-EN ISO 16000-9:2006
- UNE-EN ISO 16000-11:2006
- UNE-EN 16516:2018+A1:2021

5. MATERIALS AND METHODOLOGY

The sample was unwrapped and cutted on 22nd April 2025 (9:00 a.m.). The dimensions of the sample reach a total area of 0,225 m^2 (table 1). It is introduced into the emission chamber without sealing any of its parts.

Overview of the test method parameters are shown in the next tables:

Start date	22nd April 2025
Relative Humidity (%)	50 ± 5
Temperature (ºC)	23 ± 2
Clean air change rate (h^{-1})	0,5
Air speed (m/s)	0,2
Sample area (m^2)	0,225
Chamber volume (m^3)	0,225
Loading ratio (m^2/m^3)	1[1]

[1]Parameters from the Grenelle Law and UNE-EN 16516:2018+A1:2021 for wall materials.

Table 1.- Test data and chamber parameters.

Sampling date	20th May 2025
Sampling tube VOC	Tenax
Sampling tube for aldehydes	DNPH
VOC analysis	TD[2] GC-MS[3]
Aldehydes analysis	HPLC[4]

[2]Thermal desorption
[3]Gas chromatography – mass spectrum
[4]High-performance liquid chromatography

Table 2.- Analytical parameters.

6. TEST RESULTS

The results are shown in the next table:

Compound	Nº CAS	Concentration (μg/m^3)
Formaldehyde[5]	50-00-0	5
Acetaldehyde[5]	75-07-0	< 34
Toluene[6]	108-88-3	5
Tetrachloroethylene[6]	127-18-4	< 2
Xylene[6]	1330-20-7	13
1,2,4-Trimethylbenzene[6]	1330-20-7	4
1,4-Dichlorobenzene[6]	106-46-7	< 2
Ethylbenzene[6]	100-41-4	6
2-Butoxyethanol[6]	111-76-2	6
Styrene[6]	100-42-5	< 2
Total Volatile Organic Compounds (TVOC)[6]		466

Table 3.- VOC emission

[5] Identification by standard solution and retention time, confirmed by spectrum library and specifically calibrated.
[6] Identification by comparison with spectrum library and plausibility declaration, calibrated as toluene equivalent.

7. COMMENTS

According to the French regulation:

French VOC classes

Classes	C	B	A	A+
TVOC	> 2000	< 2000	< 1500	< 1000
Formaldehyde	> 120	< 120	< 60	< 10
Acetaldehyde	> 400	< 400	< 300	< 200
Toluene	> 600	< 600	< 450	< 300
Tetrachloroethylene	> 500	< 500	< 350	< 250
Xylene	> 400	< 400	< 300	< 200
1,2,4-Trimethylbenzene	> 2000	< 2000	< 1500	< 1000
1,4-Dichlorobenzene	> 120	< 120	< 90	< 60
Ethylbenzene	> 1500	< 1500	< 1000	< 750
2-Butoxyethanol	> 2000	< 2000	< 1500	< 1000
Styrene	> 500	< 500	< 350	< 250

Limit values: µg/m³, tested in accordance with ISO 16000 standards after 28 days, calculated for the European Reference Room

Table 4.- French Regulation Classification (Grenelle Law)

The sample referenced as 2504055-01 can be labelled as **A+**

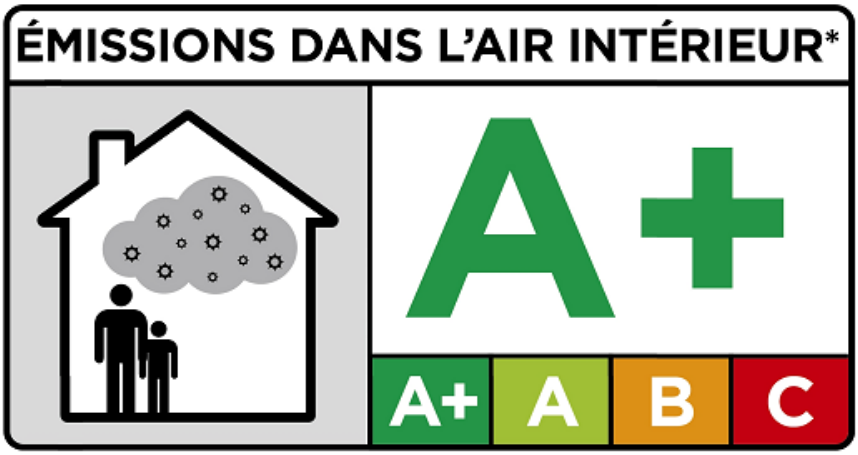

Figure 1.- Grenelle Law label.

According to the decision rule defined in the contract, for the above statements of conformity the measurement uncertainty was not taken into account. A binary statement (pass /not pass) is made for a Simple Acceptance Rule, without taking uncertainty into account. (maximum probability of acceptance / rejection: 50%).

The uncertainty of the test is shown in the following table,

Compound	Uncertainty ($\mu g/m^3$)
Formaldehyde	0,3
Acetaldehyde	1,6
Other VOCs	0,6

Table 5.- Uncertainty of the VOC measurement.

The results of the tests apply only to the tested samples.

The Laboratory is not responsible for any information provided by the client that may be included in this report, identified as such, and in the case of accredited tests, this information is not covered by accreditation.

Date: 26th May, 2025

Signed:

Julián Moratalla
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