

VOC Emissions Test report

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Date
12/01/2012

Your ref.

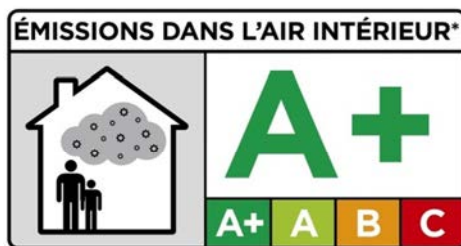
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1. Sample Information

Sample identification	EC
Product type	Wall covering # 12561
Batch no.	11-09-02
Production date	14 September 2011
Date when sample was received	20/09/2011
Testing (start - end)	21/11/2011 - 19/12/2011

2. Resulting VOC Emissions Class Label

This recommendation is based on French regulation as published on 25 March 2011 (décret DEVL1101903D) and on 13 May 2011 (arrêté DEVL1104875A). For details please see www.eurofins.com/france-voc



*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).

3. Test Method

Method	Principle	Parameter	Detection limit	Uncertainty	
ISO 16000 parts -3, -6, -9, -11 Internal method numbers: 9810, 9811, 9812, 2808, 8400	GC/MS HPLC/UV	VOC Volatile aldehydes	5 µg/m ³ 5 µg/m ³	22% (RSD) Um = 2 x RSD= 45 %	
Test chamber parameter					
Chamber volume (L):	119	Temperature (C):	23	Relative humidity (%):	50
Air change rate (per hour):	0.5	Loading ratio(m ² /m ³)	1		
Test condition: Sample stayed in test chamber during the whole 28 days testing period.					
Sample preparation					
Sample was cut out and transferred immediately to the chamber					

4. Results

EC	Concentration after 28 days $\mu\text{g}/\text{m}^3$	C	B	A	A+
TVOC	83	>2000	<2000	<1500	<1000
Formaldehyde	<3	>120	<120	<60	<10
Acetaldehyde	<3	>400	<400	<300	<200
Toluene	<2	>600	<600	<450	<300
Tetrachloroethylene	<2	>500	<500	<350	<250
Ethylbenzene	<2	>1500	<1500	<1000	<750
Xylene	<2	>400	<400	<300	<200
Styrene	<2	>500	<500	<350	<250
2-Butoxyethanol	<2	>2000	<2000	<1500	<1000
Trimethylbenzene	<2	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	<2	>120	<120	<90	<60

< Means less than
> Means higher than



Thomas Neuhaus
Head of product emission test centre



Søren Ryom Villadsen
Analytical Service Manager

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

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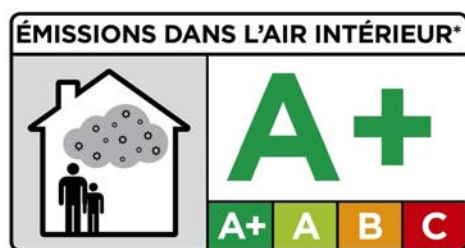
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Your ref.
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1. Sample Information

Sample identification	ET
Product type	Wall Covering # VP 730-14
Batch no.	11-09-02
Production date	14 September 2011
Date when sample was received	20/09/2011
Testing (start - end)	21/11/2011 - 19/12/2011

2. Resulting VOC Emissions Class Label

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Test condition: Sample stayed in test chamber during the whole 28 days testing period.					
Sample preparation					
Sample was cut out and transferred immediately to the chamber					

4. Results

ET	Concentration after 28 days $\mu\text{g}/\text{m}^3$	C	B	A	A+
TVOC	89	>2000	<2000	<1500	<1000
Formaldehyde	<3	>120	<120	<60	<10
Acetaldehyde	<3	>400	<400	<300	<200
Toluene	<2	>600	<600	<450	<300
Tetrachloroethylene	<2	>500	<500	<350	<250
Ethylbenzene	<2	>1500	<1500	<1000	<750
Xylene	<2	>400	<400	<300	<200
Styrene	<2	>500	<500	<350	<250
2-Butoxyethanol	<2	>2000	<2000	<1500	<1000
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