

## Declaration: 9.5 VOC emissions

*to be completed by the Applicant or component part/material suppliers*

*Applicable for furniture with leather or coated fabric upholstery or >5% by weight of components (excluding packaging) that do not comply with criterion 3.2(c) or criterion 5.3 for wood-based or metal based components respectively.*

*I the undersigned, hereby declare that the following furniture product / component part/material (please delete as appropriate and insert name of product/part/material tested) complies with criterion 9.5 according to reasons A, B or C below (please indicate which and delete the other parts):*

*A: VOC testing is not required because no leather or coated fabric upholstery is used and that any coated wooden or metal components comply with criterion 3.2(c) or criterion 5.3 respectively.*

*B: The assembled furniture product has been tested for VOC emissions, in accordance with ISO 16000 or equivalent methodology and relevant test parameters defined below.*

*Results for testing of entire furniture product:*

Test Parameter		Armchairs and sofas		Office chairs		Other
Chamber volume		In the range of 2-10 m³				
Loading rate		Product should occupy approx. 25% of chamber volume				*0.5-1.5 m²/m³
Ventilation rate		4.0 m³/h		2.0 m³/h		*0.5-1.5 h⁻¹
Substance / test time		3d	28d	3d	28d	28d
Formaldehyde	Limit	n/a	60 µg/m³	n/a	60 µg/m³	60 µg/m³
	Result					
TVOC	Limit	≤ 3000 µg/m³	≤ 400 µg/m³	n/a	≤ 450 µg/m³	≤ 450 µg/m³
	Result					
TSVOC	Limit	n/a	≤ 100 µg/m³	n/a	≤ 80 µg/m³	≤ 80 µg/m³
	Result					
C-substances**	Limit	≤ 10 µg/m³ (sum total)	≤ 1 µg/m³ (per substance)	≤ 10 µg/m³ (sum total)	≤ 1 µg/m³ (per substance)	≤ 1 µg/m³ (per substance)
	Result					
R-value***	Limit	n/a	≤ 1	n/a	≤ 1	≤ 1
	Result					

\* Although there is scope to vary the loading rate and ventilation rate for other furniture items, the ratio between the loading rate (m<sup>2</sup>/m<sup>3</sup>) and the ventilation rate (h<sup>-1</sup>) shall be maintained at 1.0.

\*\* Formaldehyde is excluded from consideration within cumulative carcinogenic VOC emission calculations and instead has its own individual limit.

\*\*\* R value = total of all quotients ( $C_i / LCI_i$ ) < 1 (where  $C_i$  = substance concentration in the chamber air,  $LCI_i$  = LCI value of the substance as defined by the latest data defined under the European Collaborative Action "Urban air, indoor environment and human exposure").

C: Representative samples of leather upholstery, coated fabric upholstery and/or coated wooden and/or metal components used in the furniture product have been tested for VOC emissions, in accordance with ISO 16000 or equivalent methodology and relevant test parameters defined below.

Results for testing of relevant component parts/materials:

Test Parameter		Coated components		Leather or coated fabric upholstery	
Chamber volume		$\geq 200$ L for wood-based components, $\geq 20$ L for other components		$\geq 20$ L	
Ventilation rate		$0.5 \text{ h}^{-1}$		$1.5 \text{ m}^3/\text{m}^2.\text{h}$	
Substance / test time		3d	28d	3d	28d
Formaldehyde	Limit	n/a	$60 \mu\text{g}/\text{m}^3$	n/a	$60 \mu\text{g}/\text{m}^3$
	Result				
TVOC	Limit	$\leq 3000 \mu\text{g}/\text{m}^3$	$\leq 400 \mu\text{g}/\text{m}^3$	n/a	$\leq 450 \mu\text{g}/\text{m}^3$
	Result				
TSVOC	Limit	n/a	$\leq 100 \mu\text{g}/\text{m}^3$	n/a	$\leq 80 \mu\text{g}/\text{m}^3$
	Result				
C-substances*	Limit	$\leq 10 \mu\text{g}/\text{m}^3$ (sum total)	$\leq 1 \mu\text{g}/\text{m}^3$ (per substance)	$\leq 10 \mu\text{g}/\text{m}^3$ (sum total)	$\leq 1 \mu\text{g}/\text{m}^3$ (per substance)
	Result				
R-value**	Limit	n/a	$\leq 1$	n/a	$\leq 1$
	Result				

\* Formaldehyde is excluded from consideration within cumulative carcinogenic VOC emission calculations and instead has its own individual limit.

\*\* R value = total of all quotients ( $C_i / \text{LCI}_i$ )  $< 1$  (where  $C_i$  = substance concentration in the chamber air,  $\text{LCI}_i$  = LCI value of the substance as defined by the latest data defined under the European Collaborative Action "Urban air, indoor environment and human exposure").

Signature of person bearing legal responsibility	
Position held	
Company Name in CAPITALS:	
Date:	
Company Stamp:	

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