




## FACT SHEET



# EPS is suitable for interiors

Building materials applied in interiors should have the least possible emissions of volatile organic compounds (VOC). All EPS insulation materials are distinguished exactly by this property and fulfil easily the most stringent European specifications, such as those of the Finnish quality label M1 for low-emission building materials or the Austrian “ÖkoBau” criteria for sustainable insulation materials.

Regulation or protocol	Conclusion	Version of regulation or protocol
Finnish quality label	Pass	<a href="#">Criteria for emission class M1</a> <sup>1</sup>
Austrian “ÖkoBau” criteria	Pass	<a href="#">Threshold values for VOC und SVOC emissions from insulation materials</a> <sup>2</sup>
French VOC regulation		Regulation of March and April 2011 ( <a href="#">DEVL1101903D</a> and <a href="#">DEVL1104875A</a> ) <sup>3</sup>
German AgBB	Pass	<a href="#">AgBB</a> of February 2015 <sup>3</sup>
Belgian VOC regulation	Pass	Royal decree of May 2015 ( <a href="#">C-2014/24239</a> ) <sup>3</sup>
Indoor Air Comfort®	Pass	<a href="#">Indoor Air Comfort 5.3a</a> of March 2015 <sup>3</sup>
EN 717-1 “Determination of formaldehyde release”	E1	October 2004
BREEAM International	Compliant	<a href="#">GN22: BREEAM Recognised Schemes for VOC Emissions from Building Products</a>

Source: baubook, RTS and PlasticsEurope

- Testing of VOC emissions from EPS insulation materials was performed by the well-recognised laboratory Eurofins in Denmark. 21 representative samples from the European market demonstrated that the total volatile organic compounds (TVOC) gave a maximum emission of 58 µg/m<sup>3</sup> after 28 days and so undercut the most stringent European threshold value by 71 %, with formaldehyde not detected at all. For further details see [Eurofins Report 392-2016-00418900](#) from 21 November 2016.
- In France EPS is widely used for internal insulation (“doublage”).

<sup>1</sup> TVOC threshold value: 200 µg/m<sup>3</sup> after 28 days

<sup>2</sup> TVOC threshold value: 300 µg/m<sup>3</sup> after 28 days

<sup>3</sup> TVOC threshold value: 1.000 µg/m<sup>3</sup> after 28 days