

## **Compliance of Altro flooring and wall sheet products to BREEAM 2018**

Altro flooring and wall sheets are compliant to the requirements of the following sections of BREEAM 2018:

### **HEA 02 – Indoor Air Quality**

Emission criteria by product type – 1 credit BREEAM 2018 Table 5.11

<b>Emission limit*</b>			<b>Testing requirement</b>	<b>Additional requirements</b>
<b>Formaldehyde</b>	<b>Total volatile organic compounds (TVOC)</b>	<b>Category 1A and 1B carcinogens</b>		
Flooring materials (including floor levelling compounds and resin flooring)				
≤ 0.06 mg/m <sup>3</sup>	≤ 1.0 mg/m <sup>3</sup>	≤ 0.001 mg/m <sup>3</sup>	ISO 10580 / ISO 16000-9 / ISO 16516	N/A
Ceiling, wall, and acoustic and thermal insulation materials				
≤ 0.06 mg/m <sup>3</sup>	≤ 1.0 mg/m <sup>3</sup>	≤ 0.001 mg/m <sup>3</sup>	ISO 16000-9 / EN 16516 / CDPH Standard Method v1.1	N/A

Emission criteria by product type – 1 credit Exemplary Level BREEAM 2018 Table 5.12

<b>Emission limit*</b>				<b>Testing requirement</b>	<b>Additional requirements</b>
<b>Formaldehyde</b>	<b>Total volatile organic compounds (TVOC)</b>	<b>Total semi-volatile organic compounds (TSVOC)</b>	<b>Category 1A and 1B carcinogens</b>		
Flooring materials (including floor levelling compounds and resin flooring)					
≤ 0.01 mg/m <sup>3</sup>	≤ 0.3 mg/m <sup>3</sup>	≤ 0.1 mg/m <sup>3</sup>	≤ 0.001 mg/m <sup>3</sup>	ISO 10580 / ISO 16000-9 / ISO 16516 / CDPH Standard Method v1.1	N/A
Ceiling, wall, and acoustic and thermal insulation materials					
≤ 0.01 mg/m <sup>3</sup>	≤ 0.3 mg/m <sup>3</sup>	≤ 0.1 mg/m <sup>3</sup>	≤ 0.001 mg/m <sup>3</sup>	ISO 10580 / ISO 16000-9 / ISO 16516 / CDPH Standard Method v1.1	N/A

### **Compliance of Altro safety flooring, smooth flooring & modular flooring (LVT)**

All Altro safety flooring, smooth flooring & modular flooring (LVT) comply with the requirements of HEA 02 under BREEAM 2018.

For compliance to these BREEAM credits, floor coverings should satisfy the limits for formaldehyde, TVOC and category 1A and 1B carcinogens. For exemplary level credits they should also satisfy the limits for TSVOC.

*Compliance is as follows:*

1. Formaldehyde – formaldehyde is not used in the manufacture of raw PVC, compounding of dry blend or production sheets. Formaldehyde  $\leq 0.01$  mg/m<sup>3</sup>.
2. TVOC – Tested in accordance with ISO 16000-9. TVOC  $\leq 0.3$  mg/m<sup>3</sup>.
3. TSVOC - Tested in accordance with ISO 16000-9. TVOC  $\leq 0.1$  mg/m<sup>3</sup>.
4. Category 1A & 1B carcinogens – no category 1A & 1B carcinogens are present in Altro floor coverings.

### **Compliance of Altro Whiterock & Altro Fortis Titanium wall sheet**

All Altro Whiterock and Altro Fortis Titanium wall sheet products comply with the requirements of HEA 02 under BREEAM 2018.

For compliance to these BREEAM credits, wall coverings should satisfy the limits for formaldehyde, TVOC and category 1A and 1B carcinogens. For exemplary level credits they should also satisfy the limits for TSVOC.

Altro Whiterock & Altro Fortis Titanium products are rigid un-plasticised PVC sheets and both comply with the requirements of these standards as detailed below.

*Compliance is as follows:*

1. Formaldehyde – formaldehyde is not used in the manufacture of raw PVC, compounding of dry blend or production sheets. Formaldehyde  $\leq 0.01$  mg/m<sup>3</sup>.
2. TVOC – Tested in accordance with ISO 16000-9. TVOC  $\leq 0.3$  mg/m<sup>3</sup>.
3. TSVOC - Tested in accordance with ISO 16000-9. TVOC  $\leq 0.1$  mg/m<sup>3</sup>.
4. Category 1A & 1B carcinogens – no category 1A & 1B carcinogens are present in Altro wall sheet.

## MAT 02 – Environmental impacts from construction products – Environmental Product Declarations (EPD)

Individual Environmental Product Declarations are available for all safety and smooth flooring products, and wall sheet products.

Table 9.8 EPD points for different types of EPD

Recognised types of EPD	Validity	EPD points
EPD applicable to more than one product in the same product category, and more than one manufacturer.	<ul style="list-style-type: none"> <li>– EPD unexpired at the point of specification.</li> <li>– Product installed in the building by the end of construction.</li> <li>– EPD issued or registered by an ISO 14025 compliant programme operator.</li> <li>– For products covered by the Construction Product Regulations, the EPD must have been generated using product category rules based on either BS EN 15804 or ISO 21930.</li> </ul>	0.5
EPD applicable to more than product in the same product category, and a single manufacturer.		0.75
EPD applicable to a single product*, and a single manufacturer (the product may be manufactured in more than one location) *Or variations of a single product that only differ in terms of colour or pattern.		1.5

### Compliance of Altro safety flooring, smooth flooring & modular flooring (LVT)

Our ISO 14025 compliant EPDs contribute up to 1.5 points under Mat 02.

### Compliance of Altro Whiterock & Altro Fortis Titanium wall sheet

Our ISO 14025 compliant EPDs contribute up to 1.5 points under Mat 02.

## MAT 03 – Responsible Sourcing of construction products

Altro is not certified to BES 6001 – Responsible Sourcing of Construction Products, however Altro is certified to the environmental management standard ISO 14001:2015. A copy of this certificate is available upon request or can be downloaded from our website [www.altro.com](http://www.altro.com)



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## WST 01 Construction Waste Management

Altro is a co-founder of Recofloor, the UK's vinyl take back scheme. Recofloor can be used in conjunction with a Site Waste Management Plan to divert vinyl flooring waste from landfill and potentially earn BREEAM credits.

If you require any further information about compliance of our products to BREEAM please contact me here at Letchworth.

Kind regards

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