

The requirements of BREEAM International (2016) SD233 issue 2.0(as described above) are the same as for BREEAM-DE (2018) SDBNBDE02 and BREEAM UK New construction 2018, Technical Manual SD5078, although the credit names and numbers may be different.

Detailed overview of Environmental sections with paint relevant issues:

Issue	Credits	Paint relevant issue
Health and wellbeing	23	
Hea 01 Visual comfort	Up to 6	
Hea 02 Indoor air quality	5	1
Hea 03 Safe containment in laboratories	2	
Hea 04 Thermal comfort	3	
Hea 05 Acoustic performance	Up to 4	
Hea 06 Accessibility	2	
Hea 07 Hazards	1	
Hea 08 Private space	1	
Hea 09 Water quality	1	
Materials	12	
Mat 01 Life cycle impacts	Up to 6	1
Mat 02 Hard landscaping and boundary protection	N/A	
Mat 03 Responsible sourcing of construction products	4	
Mat 04 Insulation	N/A	
Mat 05 Designing for durability and resilience	1	
Mat 06 Material efficiency	1	

Health and wellbeing

To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.

Hea 02 Indoor air quality

At least four of the five product types meet the emission limits, testing requirements and any additional requirements. Product types:

Product types
Interior paints and coatings
Wood-based products
Flooring materials (including floor levelling compounds and resin flooring)
Ceiling, wall, and acoustic and thermal insulation materials
Interior adhesives and sealants (including flooring adhesives)

VOC Emission limits:

Product types	mg/m ³		
	Formaldehyde	TVOC	Carc cat 1A&1B
Interior paints and coatings	≤0.06	≤1,0	≤0.001

Exemplary level	mg/m ³			
	Formaldehyde	TVOC	TSVOC	Carc cat 1A&1B
Interior paints and coatings	≤0.01	≤0.3	≤0.1	≤0.001

VOC content limits:

Coating Category	VOC Content g/l
Interior matt walls and ceilings (Gloss <25@60°)	10
Interior glossy walls and ceilings (Gloss >25@60°)	40
Interior trim and cladding paints for wood and metal	90
Interior trim varnishes and wood stains, including opaque wood stains	65
Interior minimal build wood stains	50
Primers	15
Binding primers	15
One-pack performance coatings	100
Two-pack reactive performance coatings for specific end use such as floors	80
Multi-coloured coatings	80
Decorative effect coatings	80

Testing requirement:

Testing requirement	Evidence
EN 16402	Letter from or copies of the manufacturer's literature confirming testing standards and emissions achieved.
ISO 16000-9	Testing results for formaldehyde and TVOCs.
CEN/TS 16516	Testing results for formaldehyde and TVOCs.
CDPH method v1.1	Testing results for formaldehyde and TVOCs.

Paints used in wet areas should protect against mould growth.

Materials

This category encourages steps taken to reduce the impact of construction materials through design, construction, maintenance and repair. Issues in this section focus on the procurement of materials that are sourced in a responsible way and have a low embodied impact over their life including extraction, processing and manufacture, and recycling.

Mat 01: One credit - Environmental product declarations (EPD)

Where a range of at least five products specified at Design Stage (DS1) and installed by Post-Construction Stage (PCS2) are covered by verified EPD

Exemplary level criteria

The requirements for exemplary level criteria outlined in Table 41 on the previous page within the assessment criteria above have been achieved.

Where a range of at least 10 products specified at DS and installed by Post-Construction Stage (PCS) are covered by verified manufacturer specific EPD.

Only two EPDs per classification group may be counted. This is to encourage a range of EPDs from different construction product sectors.

At present, we do not seek to benchmark performance. This is likely to be included as LCA matures and BRE Global have collated enough building performance data to establish robust benchmarks.

Verified EPD

An EPD is an independently verified environmental label (i.e. ISO Type III label) according to the requirements of ISO 14025. For construction products, the EPD must be produced to either EN 158041, ISO140252 or ISO 219303. EPDs shall be classified according to:

1. Timber or timber-based products
2. Concrete or cementitious
3. Metal
4. Stone or aggregate

5. Clay-based
6. Gypsum
7. Glass
8. Plastic, polymer, resin, paint, chemicals and bituminous
9. Animal fibre, skin, cellulose fibre
10. Other.