Demonstrating Low VOC Emissions

For the Silver level, one of the following or an equivalent must be used to demonstrate low VOC emissions:

1. Schemes that are recognized at the general level by BREEAM for the VOC Emissions from Building Products credit. **Formaldehyde emissions must be ≤10 µg/m³ at 28 days or sooner following storage in a ventilated test chamber.** [REF: GN22: BREEAM Recognized Schemes for Emissions from Building Products, Table 2, version 2.1 of October 2016 or later]

2. Schemes that are recognized at the general level by the BREEAM International New Construction 2016 or later Technical Standard. **Formaldehyde emissions must be ≤10 µg/m³ at 28 days or sooner following storage in a ventilated test chamber.** [REF: BREEAM International New Construction 2016 or later Technical Standard, Hea 02 Indoor Air Quality, table 17.]

3. Certifications and labels recognized for LEED v4 or later EQ Credit Low Emitting Materials. [REF: LEED v4 EQ Credit Low Emitting Materials Third Party Certifications and Labels - version of June 2017 or later] Any mentioned additional requirements, supplemental to the respective program must also be fulfilled.

4. Per LEED v4 or LEED v4.1 General emissions evaluation, option 1 - compliance with CDPH Standard Method v1.1 or later, including a statement of the exposure scenarios and disclosure of the TVOC range.

5. Per LEED v4 or LEED v4.1 General emissions evaluation, option 2 - compliance with AgBB (2015 or later), including formaldehyde emissions ≤10 µg/m³. The TVOC range must be disclosed if complying with LEED v4.1.

6. For textile floor coverings: Schemes and labels listed in DGNB System 2018 or later, ENV 1.2 Local and Environmental Impact, Appendix 1 Criteria Matrix (all quality levels). **Formaldehyde emissions must be ≤10 µg/m³ at 28 days or sooner following storage in a ventilated test chamber.**

7. For resilient/elastic floor coverings: Compliance with RAL UZ 120 and formaldehyde ≤10 µg/m³ at 28 days or sooner following storage in a ventilated test chamber (note: this also fulfills the Gold level requirement below).

8. For composite wood (not in finished products such as furniture or flooring): Compliance with CARB ULEF or NAF requirements, or 100% of the European E1 formaldehyde class as tested per EN 717 or EN 16516.

9. For furniture: Compliance with ANSI/BIFMA e3-2014 or later version Furniture Sustainability Standard, Section 7.6.2 or 7.6.3 (note: this also fulfills the Gold level requirement below).

Demonstrating Very Low to No VOC Emissions

For the Gold and Platinum levels, one of the following or an equivalent must be used to demonstrate very low to no VOC emissions:

1. Schemes that are recognized at the exemplary level by BREEAM for VOC Emissions from Building Products credit. [REF: GN22: BREEAM Recognized Schemes for Emissions from Building Products, Table 2, version 2.1 of October 2016 or later]
2. Schemes that are recognized at the exemplary level by the BREEAM International New Construction 2016 or later Technical Standard. [REF: BREEAM International New Construction 2016 or later Technical Standard, Hea 02 Indoor Air Quality, table 17]

3. Per LEED v4 or LEED v4.1 General emissions evaluation, option 1 - compliance with CDPH Standard Method v1.1 or later and TVOC emissions no higher than 0.5 mg/m³ (500 µg/m³) at a time point no later than 14 days of storage in a ventilated test chamber, or after 10 days conditioning and 4 days of storage in a ventilated test chamber.

4. Per LEED v4 or LEED v4.1 General emissions evaluation, option 2 - compliance with AgBB (2015 or later), including formaldehyde emissions ≤10 µg/m³ and TVOC emissions ≤ 0.3 mg/m³ (300 µg/m³) at a time point not later than 28 days of storage in a ventilated test chamber.

5. Schemes and labels listed in DGNB System 2018 or later, ENV 1.2 Local and Environmental Impact, Appendix 1 Criteria Matrix as follows:
   a. For textile floor coverings: compliance with any quality level and demonstration that formaldehyde is ≤10 µg/m³ at 28 days or sooner following storage in a ventilated test chamber.
   b. For primers, precasts, fillers, and adhesives under wall and floor coverings, compliance with quality levels 2, 3, or 4.
   c. For barrier coatings, resin screeds, and seals under tiles, compliance with quality levels 3 or 4.
   d. For polyurethane and silane modified polymers used as sealing compounds, compliance with quality levels 3 or 4.

6. For resilient/elastic floor coverings: Compliance with RAL UZ 120 and formaldehyde ≤10 µg/m³ at 28 days or sooner following storage in a ventilated test chamber.

7. For composite wood (not in finished products such as furniture or flooring): Compliance with CARB ULEF or NAF requirements, or 50% of the European E1 formaldehyde class as tested per EN 717 or EN 16516.

8. For furniture: Compliance with ANSI/BIFMA e3-2014 or later version Furniture Sustainability Standard, Sections 7.6.2 or 7.6.3.

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