

**Intent**

To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

**Requirements**

All flooring must comply with the following as applicable to the project scope:

- All carpet installed in the building interior must demonstrate equivalence to the emissions test criteria of the CRI Green Label Plus Carpet Program (<http://www.carpet-rug.org/commercial-customers/green-building-and-the-environment/green-label-plus/carpet-and-adhesive.cfm> or [http://www.carpet-rug.org/pdf\\_word\\_docs/071028\\_Carpet\\_GLP\\_Criteria.pdf](http://www.carpet-rug.org/pdf_word_docs/071028_Carpet_GLP_Criteria.pdf)) using the ICC Evaluation Service (ICC-ES) Evaluation Guideline for Determination of Volatile Organic Compound (VOC) Content and Emissions of Floor Covering Products, EG107, as a testing protocol (<http://www.saveprogram.icc-es.org/guidelines/pdf/EG107.pdf>). For more information, see the Reference Guide, Figure 1, Sample Product Information for CRI Green Label Plus Carpeting.
- All carpet cushion installed in the building interior must demonstrate maximum emissions factors less than stated below (from <http://www.carpet-rug.org/commercial-customers/green-building-and-the-environment/green-label-plus/cushion.cfm>). The testing protocol must follow the ICC Evaluation Service (ICC-ES) Evaluation Guideline for Determination of Volatile Organic Compound (VOC) Content and Emissions of Floor Covering Products, EG107 (<http://www.saveprogram.icc-es.org/guidelines/pdf/EG107.pdf>).

<b>Maximum Allowance</b>	
<b>TVOCs</b>	<b>1000 µg/m<sup>2</sup> per hour</b>
<b>BHT</b>	<b>300 µg/m<sup>2</sup> per hour</b>
<b>Formaldehyde</b>	<b>50 µg/m<sup>2</sup> per hour</b>
<b>4-PCH</b>	<b>50 µg/m<sup>2</sup> per hour</b>

- All carpet adhesive must meet the requirements of IEQ Credit 4.1: Adhesives and Sealants, which includes a volatile organic compound (VOC) limit of 50 g/L (0.4 lb/gal).
  - All hard surface flooring must demonstrate maximum emissions factors less than or equal to those stated below, as shown with testing by an independent third party. Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut stone without integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any IAQ testing requirements. However, associated site-applied adhesives, grouts, finishes and sealers must be compliant for a mineral-based or unfinished/untreated solid wood flooring system to qualify for credit. The testing protocol to determine the emissions factors must follow the ICC Evaluation Service (ICC-ES) Evaluation Guideline for Determination of Volatile Organic Compound (VOC) Content and Emissions of Floor Covering Products, EG107 (<http://www.saveprogram.icc-es.org/guidelines/pdf/EG107.pdf>).
- a. ▫ Formaldehyde, 1.65 µg/m<sup>3</sup> per hour
  - b. ▫ Acetaldehyde, 9 µg/m<sup>3</sup> per hour
  - c. ▫ All other organic chemicals with established Chronic Reference Exposure Levels (CRELs) less than or equal to 1/2 CREL as listed in the latest edition of the Cal/EPA OEHHA list of chemicals with noncancer CRELs ([http://www.oehha.ca.gov/air/chronic\\_rels/AllChrels.html](http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html)).
- Concrete, wood, bamboo and cork floor finishes such as sealer, stain and finish must not exceed the VOC limits listed in IEQ Credit 4.2: Paints and Coatings.
  - Tile setting adhesives and grout must not exceed the VOC limits listed in IEQ Credit 4.1: Adhesives and Sealants.