



# LEED 2009 for Core and Shell Development

## IEQ CREDIT 4.3: LOW-EMITTING MATERIALS FLOORING SYSTEMS

All fields and uploads are required unless otherwise noted.

### ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

Select all that apply:

- ☐ **Option 1.** Combination of Carpet and Rug Institute, South Coast Air Quality Management District, and FloorScore referenced standards.
- ☐ **Option 2.** California Department of Health Services standard.

Note: For projects using Options 1 and 2, complete the "Combination of Referenced Standards" section for all products using Option 1, and the "California Department of Health Services Standard" section for all products using Option 2.

### COMBINATION OF REFERENCED STANDARDS

The project team is attempting IEQc4.1 and has selected "One or more of the adhesives or sealants used on the interior of the building exceeds the allowable VOC limit".

Note: This field is read only. The yes/no is derived from the All Options selection in IEQc4.1. If IEQc4.1 has not been attempted, or the VOC budget option is not selected, No will be displayed.

The VOC budget option is not permissible for this credit. All flooring adhesives and sealants must not exceed the allowable VOC limit.

**Table L-5.** Flooring Adhesives and Sealants

| Product Type                            | Product Manufacturer | Product Name / Model | Product VOC Content | Allowable VOC Content | Source of VOC Data (letter, cutsheet, MSDS sheet, etc.) | Source of VOC Data Provided |
|---|----------------------|----------------------|---------------------|-----------------------|---|-----------------------------|
|   |                      |                      |                     |                       |   | <input type="checkbox"/>    |
| All products meet allowable VOC content |                      |                      |                     |                       |   |                             |

For this compliance path, all products listed must have a VOC content equal to or less than the allowable VOC limit for the selected product type.

Percentage of Source of VOC Data provided for items listed in the table above:  
(Must be at least 20% of total items)

**Table L-6.** Flooring Adhesives and Sealants VOC Budget

| Product Type | Product Manufacturer | Product Name / Model | Product VOC Content | Allowable VOC Content | Source of VOC Data (letter, cutsheet, MSDS sheet, etc.) | Source of VOC Data Provided | Volume of product used (L) | Baseline Case VOC (g) | Design Case VOC (g) |
|--------------|----------------------|----------------------|---------------------|-----------------------|---|-----------------------------|----------------------------|-----------------------|---------------------|
|              |                      |                      |                     |                       |   | <input type="checkbox"/>    |                            |                       |                     |
| Totals       |                      |                      |                     |                       |   |                             |                            |                       |                     |

Note: The design case VOC total must be less than or equal to the baseline case VOC total.

For this credit, all products listed must have a VOC content equal to or less than the allowable VOC limit for the selected product type. Projects using the VOC budget for IEQc4.1 are ONLY eligible for this credit if the VOC limit is exceeded for a non-flooring adhesive and sealant.

Percentage of Source of VOC Data provided for items listed in the table above:  
(Must be at least 20% of total items)

**Table IEQc4.3-1. Flooring Materials and Finishes**

| Product Type <sup>2</sup>  | Product Manufacturer | Product Name / Model | Referenced Standard | Meets Referenced Standard | Source of Compliance or Certification Data | Doc Prov                 |
|--|----------------------|----------------------|---------------------|---------------------------|--|--------------------------|
|  |                      |                      |                     | <input type="checkbox"/>  |  | <input type="checkbox"/> |
| Percentage of products with compliance or certification data provided<br>(Must be at least 20% of total items) |                      |                      |                     |                           |  |                          |

<sup>1</sup> Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut stone without any integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any IAQ testing requirements.

<sup>2</sup> Concrete, wood, bamboo floor finishes such as sealer, stain and finish may be included in both IEQc4.2 and IEQc4.3.

## CALIFORNIA DEPARTMENT OF HEALTH SERVICES STANDARD

**Table IEQc4.3-2. Flooring Adhesives & Finishes**

| Product Type <sup>2</sup>  | Product Manufacturer | Product Name / Model | Meets CA Dept of Health Standard | Source of Compliance or Certification Data | Doc Prov                 |
|--|----------------------|----------------------|----------------------------------|--|--------------------------|
|  |                      |                      | <input type="checkbox"/>         |  | <input type="checkbox"/> |
| Percentage of products with compliance or certification data provided<br>(Must be at least 20% of total items) |                      |                      |                                  |  |                          |

<sup>1</sup> Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut stone without any integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any IAQ testing requirements.

<sup>2</sup> Concrete, wood, bamboo floor finishes such as sealer, stain and finish may be included in both IEQc4.2 and IEQc4.3.

- ☐ All flooring adhesives, sealants, materials and finishes used on the inside of the weatherproofing system and applied on-site have been included in the table(s) above.

**Upload IEQc4.3-1.** Provide the source of certification or compliance data from the manufacturer for 20% (by item, not cost) of the materials listed in each table.

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## ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

### SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

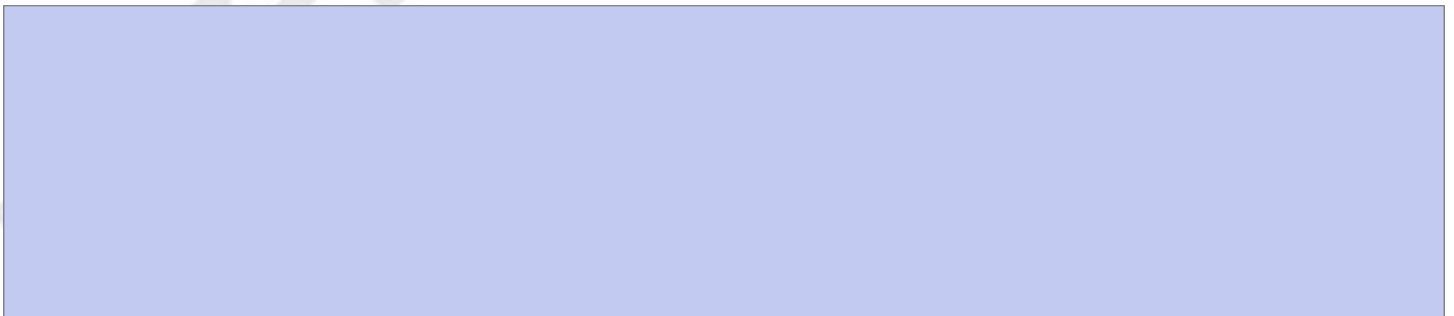


**Upload IEQc4.3-SC.** Provide any additional documentation that supports the claim to special circumstances. (Optional)

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

### ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.



**Upload IEQc4.3-ACP.** Provide any additional documents that support the alternative compliance path approach. (Optional)

- ☐ The project team is pursuing exemplary performance for IEQ Credit 4.

## EXEMPLARY PERFORMANCE

*Note: Only 1 point is available for exemplary performance under the IEQ Credit 4 suite.*

- ☐ The tenant sales and/or lease agreement contains binding language specifying the minimum low-emitting materials criteria, such that spaces within the scope of anticipated tenant work shall comply with the requirements of all the Low Emitting Materials credits (IEQ Credit 4.1, IEQ Credit 4.2, IEQ Credit 4.3, and IEQ Credit 4.4) when completed.

**Upload L-6.** Provide the legally binding document (lease, sales agreement, tenant construction requirements, etc.) associated with the project, signed by both the developer and the tenant, explicitly stating the performance requirements for the tenant work.

Page/Reference number(s) of language relating to declaration(s) above:

## SUMMARY

IEQ Credit 4.3: Low Emitting Materials - Flooring Systems Points Documented:

IEQ Credit 4.3: Low-Emitting Materials - Adhesives and Sealants Exemplary Performance Documented:

- ☐ The project team reserves one point in the Innovation in Design credit category for exemplary performance in IEQ Credit 4 suite.