



| v3 - LEED 2009

Low-emitting materials - furniture

EQc4.5 | Possible 1 point

Glossary

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

Custom-manufactured furniture components of furniture and their assembly must meet the requirements of IEQ Credit 4.1, Low-Emitting Materials—Adhesives and Sealants; IEQ Credit 4.2, Low-Emitting Materials—Paints and Coatings; and IEQ Credit 4.4, Low-Emitting Materials—Composite Wood and Agrifiber Products.

Please note that built-in casework and built-in millwork items are considered part of the base building.

AND

All systems furniture¹ and seating² introduced into the project space that have been manufactured, refurbished, or refinished within 1 year prior³ to occupancy must meet 1 of the requirements below.

OPTION 1

Greenguard Indoor Air Quality Certified

OR

OPTION 2

Calculated indoor air concentrations that are less than or equal to those listed in Table 1 for furniture systems and seating determined by a procedure based on the EPA Environmental Technology Verification (ETV) Large Chamber Test Protocol for Measuring Emissions of VOCs and Aldehydes (September 1999) testing protocol conducted in an independent air quality testing laboratory.

OR

Option 3

Calculated indoor air concentrations that are less than or equal to those listed in Table 1 for furniture systems and seating determined by a procedure based on ANSI/BIFMA M7.1-2007 and ANSI/BIFMA X7.1-2007 testing protocol conducted in an independent third-party air quality testing laboratory.

The requirement in ANSI/BIFMA X7.1-2007, Section 5, is waived for LEED purposes. Section 5 requires that laboratories used to perform the emissions testing and/or provide analytical results must be independently accredited to ISO/IEC 17025, "General requirements for the competence of testing and calibration laboratories."

Chemical Contaminant	Emission Limits Systems Furniture	Emission Limits Seating
TVOC	0.5 mg/m ³	0.25 mg/m ³
Formaldehyde	50 parts per billion	25 parts per billion
Total Aldehydes	100 parts per billion	50 parts per billion
4 - Phencyclohexene (4-PCH)	0.0065 mg/m ³	0.00325 mg/m ³