

Background and Instructions

AIA Connecticut and the American Council of Engineering Companies of Connecticut are posting materials to assist the Connecticut building community in complying with the Building Construction Standards/Energy Efficiency requirements in the 2009 Amendments to the 2005 Connecticut State Building Code. These materials consist of two forms to be used in the permitting process (Forms 101 and 102) and some supplemental check-list/reports: a LEED™ NC v2.2 check list, a sample Green Globes™ Rating Report and a sample Building Energy performance characteristics spreadsheet. Forms and supplemental materials may be downloaded from this section of the AIA Connecticut website.

Requirements of 2009 Amendments

Section 101.6 of the Connecticut Supplement to the 2006 International Energy Conservation Code and Section N101.1.1.1 of the Connecticut Supplement to the 2003 International Residential Code:

1. All new construction covered by this code for which a building permit is applied for on or after January 1, 2009, that is projected to cost not less than five million dollars, shall be built using construction standards consistent with or exceeding the silver rating of the Leadership in Energy and Environmental Design's rating system for new commercial construction, as established by the United States Green Building Council, or an equivalent, including, but not limited to, a two-globe rating in the Green Globes USA Design program.
2. Alterations to existing buildings covered by this code for which a building permit is applied for on or after January 1, 2010, that are projected to cost not less than two million dollars, shall be built using building construction standards consistent with or exceeding the silver rating of the Leadership in Energy and Environmental Design's rating system for major renovation projects, as established by the United States Green Building Council, or an equivalent standard, including, but not limited to a two-globe rating in the Green Globes USA Design program.

Forms

Form 101: *Initial Demonstration of Compliance with Construction Standards/Energy Efficiency Requirements in Connecticut State Building Code*

Form 102: *Final Demonstration Report of Compliance with Building Construction Standard/Energy Efficiency Requirement of Connecticut State Building Code*

These forms are not official. They were developed by the Coalition for the Adoption of a Unified Code in the interest of moving the permitting process along at a time when the mandates of new legislation on Green building are being clarified and to provide the community with a consistent approach for compliance. Design professionals, contractors, and owners should consult with their local building official before using these forms. An Architect's seal is not required by code.

Supplemental Materials

It is recommended that the LEED™ project scorecard/checklist or the Green Globes rating report be attached to Form 101. The LEED™ project scorecard/checklist must be the one

appropriate for the project and for the code requirement. The LEED™ project scorecard/checklist is to be completed in a manner consistent with the methods and procedures established by the United States Green Building Council and must show a score that meets the minimum points for the silver rating. LEED™ Certification by the US Green Building Council is not required by code.

The Green Globes rating report is automatically generated from the on line assessment tool Construction Documents Stage questionnaire. The Green Globes on line tool must be used in a manner consistent with the methods and procedures established by Green Globes USA Design and must show a percentage that meets the minimum for a two-globes rating. Green Globes Certification by Green Globes USA Design is not required by code.

It is also recommended that a Building Energy Performance Characteristics spreadsheet be attached to Form 101. The spreadsheet will identify the energy-related features from the simulation that result in the energy performance improvements claimed in the rating system. This type of spreadsheet is required in Appendix G of ASHRAE/IESNA Standard 90.1. There are three columns in the spreadsheet. The first column lists the values in ASHRAE/IESNA Standard 90.1-2004 that is the reference standard in the 2006 International Energy Code. The second column lists the values from the energy simulation that create the cost savings required for the points claimed in the rating system. The values in the second column may be higher or lower than the ones in the first column as long as the net energy cost savings required for the points are achieved. The third column is optional and it contains the values incorporated into the design. The third column would document that the values are better than the compliance requirement values in the second column.

Samples of the LEED™ project scorecard/checklist, the Green Globes rating report, and the spreadsheet may be downloaded from this section of the website.