

## **Instructions for Compliance Documentation Spreadsheets**

The following spreadsheets are being offered as a potential resource for documenting compliance with the Connecticut Energy Code, as it applies to commercial construction.

Connecticut 2009 IECC Compliance Spreadsheet

Connecticut 90.1-2007 Compliance Spreadsheet

Connecticut 2009 IECC TBP Compliance Spreadsheet

Connecticut 90.1-2007 ECB Compliance Spreadsheet

Please note that these are being offered as aides and organizational tools, and that they are not promulgated or approved by any authority charged with determining compliance with the Energy Code. Use of these spreadsheets should be made in conjunction with, not as a substitute for, responsible knowledge of the requirements of the Energy Code.

For commercial projects, the Connecticut Energy Code requires that compliance be demonstrated with Sections 502 (Building envelope requirements), 503 (Building mechanical systems), 504 (Service water heating) and 505 (Electrical power and lighting systems) in its entirety or to Section 506, Total Building Performance, provided Sections 502.4, 503.2, 504, 505.2, 505.3, 505.4, 505.6 and 505.7 are each satisfied or the requirements of ASHRAE/IESNA Standard 90.1 in its entirety. The design team shall identify the path for compliance will be selected on a project-by-project basis, which will then result in use of the appropriate spreadsheet.

The documentation can be provided as a separate submittal, as part of the specifications or as an early sheet in the plans. Including the spreadsheet information on the plans has an advantage of putting all the project information in one place that is generally seen by all contractors and suppliers and is generally available at the job site. It also places the code compliance requirements in the hands of contractors and suppliers that might be considering an alternate approach.

The following are instructions for using the spreadsheets. The appropriate spreadsheet, once selected, can be modified as needed to match the project. For code related items, the values for the code requirement and the corresponding as designed value for each item should be entered in the spreadsheet. Items not used for the project could be deleted from the spreadsheet.

Each spreadsheet has a summary and detailed workbook. The detailed workbook tries to identify the sub-groups for each item. The various capacity ranges for air conditioning equipment efficiencies or the different wall types for insulation requirements are examples of sub-groups. The summary workbook can be used if there are no sub-groups for each item.

The value from the code for each item should be entered in the “requirement” column. If there are credits or exceptions that modify the value from the code book, the new value should be documented by attaching the calculation and/or by adding lines to show values of the credits or exceptions. Where there are different paths to achieve compliance, as with U-factors or R-values for walls, the unused compliance path item can be deleted.

If the Total Building Performance (TBP) or Energy Cost Budget (ECB) method is selected as the compliance path, the value for each item used to achieve compliance in the simulation should be entered in the “building design” column. When TBP or ECB is used for compliance, the additional documentation stated in that section should be provided as support.

The calculated or specified value for each item incorporated into the design should be entered in the “design” column. If the value is calculated, it should be supported by schedules or additional documentation.

If a numeric value is not appropriate for an item, a statement of the requirement or of its compliance should be entered in the cell. A numbered note could be used as an alternate method for the entry.

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