

Insert pages for September 1, 2011 Wisconsin Commercial Building Code, Comm 61-66, into the International Energy Conservation Code, 2009 edition

Safety and Buildings Division - Wisconsin Department of Safety and Professional Services

IECC Chapter 3, Insert 3B, Page 1 of 1
Insert between pages 24 and 25

Comm 63.0303 Materials, systems and equipment. These are department rules in addition to the requirements in IECC section 303.

(1) GENERAL. Except as specified in sub. (2), when available, information on thermal properties, performance of building envelope sections, and components and heat transfer shall be obtained from ASHRAE Handbook of Fundamentals.

(2) EXCEPTIONS. (a) When the information is not available from ASHRAE Handbook of Fundamentals, the data shall be obtained from laboratory or field-test measurements. If laboratory or field test measurements are used for envelope heat transmission, the measurements shall be obtained using one of the following test methods:

1. ASTM C177, Test method by guarded hot plate apparatus.
2. ASTM C335, Test method of horizontal pipe insulation.
3. ASTM C518, Test method by means of the heat flow meter apparatus.
4. ASTM C1363, Test method by means of a hot box apparatus.

(b) For foam plastic insulation that incorporates a substance other than air as the insulating medium, laboratory or field tests shall be conducted on representative samples that have been aged for the equivalent of 5 years or until the R-Value has stabilized to determine thermal properties or performance. The tests shall be conducted by an independent third party.

(c) Integrally insulated concrete masonry systems within the scope of the National Concrete Masonry Association (NCMA) shall be evaluated for the thermal performance of the masonry or concrete units in accordance with one of the following:

1. NCMA Evaluation Procedures for the Integrally-Insulated Concrete Masonry Walls.
2. Default values as approved by the department.

(d) All other concrete or masonry units not within the scope of the NCMA Evaluation Procedures shall comply with one of the following methods for determining the thermal performance of the assembly or system:

1. Default values as approved by the department.
2. Laboratory or field-test measurements specified in par. (a).
3. Department material approval process as specified in ch. Comm 61 to determine the U-factor.