



Designation: C 1320 – 99

Standard Practice for Installation of Mineral Fiber Batt and Blanket Thermal Insulation for Light Frame Construction¹

This standard is issued under the fixed designation C 1320; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers procedures for the installation of mineral fiber batt and blanket thermal insulation in ceilings, attics, floors, and walls of new or existing housing and other light frame construction.

1.2 This practice covers the installation process from pre-installation inspection through post-installation inspection. It does not cover the production of the insulation materials.

1.3 This practice is not intended to replace manufacturers' installation instructions, but it shall be used in conjunction with such instructions. This practice is not intended to supersede local, state, or federal codes.

1.4 This practice assumes that the installer possesses a working knowledge of applicable codes and regulations, safety practices, tools, equipment, and methods necessary for the installation of thermal insulation materials. It also assumes that the installer understands the fundamentals of construction that affect the installation of insulation.

1.5 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

C 168 Terminology Relating to Thermal Insulating Materials²

C 665 Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing²

C 755 Practice for Selection of Vapor Retarders for Thermal Insulation²

D 3833 Test Method for Water Vapor Transmission of Pressure-Sensitive Tapes³

E 84 Test Method for Surface Burning Characteristics of Building Materials⁴

2.2 Other Standards:

NFPA-31 Standard for the Installation of Oil Burning Equipment⁵

NFPA-54 National Fuel Gas Code⁵

NFPA-70 National Electric Code⁵

NFPA-211 Standard for Chimneys, Fireplaces, Vents and Solid-Fuel Burning Appliances⁵

ICC One and Two Family Dwelling Code⁶

CPSC Product Safety Fact Sheet No. 18, "The Home Electrical System"⁷

NAIMA Publication BI402 "Fiber Glass Batt Installation"⁸

3. Terminology

3.1 *Definitions*—Definitions relating to thermal insulation in Terminology C 168 apply to terms used in this practice.

3.2 Description of Terms Specific to This Standard:

3.2.1 *conditioned space*—space in a building that is served by a heating or cooling system.

3.2.2 *installer*—the person or persons who apply thermal insulation materials in buildings whether or not such person or persons have contracted with the owner to perform the work.

3.2.3 *mineral fiber batt and blanket thermal insulating materials*—those materials that meet the minimum requirements set forth in Specification C 665.

3.2.4 *owner*—the person, partnership, corporation, agency, or other entity who owns the building to be insulated whether such ownership is by virtue of deed, contract, or any other instrument for acquiring legal title under the laws of the State in which the building is located.

3.2.5 *vapor retarder*—membrane or tape that has a water vapor permeance (perm) rating of 1 perm (5.7×10^{-11}

³ Annual Book of ASTM Standards, Vol 15.09.

⁴ Annual Book of ASTM Standards, Vol 04.07.

⁵ Available from National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

⁶ Available from International Code Council, Falls Church, VA 22041.

⁷ Available from U.S. Consumer Product Safety Commission, Washington, DC 20207.

⁸ Available from North American Insulation Manufacturers Association, Alexandria, VA 22314.

¹ This practice is under the jurisdiction of ASTM Committee C-16 on Thermal Insulation and is the direct responsibility of Subcommittee C16.23 on Blanket and Loose Fill Insulation.

Current edition approved Dec. 10, 1999. Published April 2000. Originally published as C 1320-95. Last previous edition C1320-95.

² Annual Book of ASTM Standards, Vol 04.06.