

Designation: C727-01 (Reapproved 2007)^{ε1} Designation: C727 - 12

Standard Practice for Installation and Use of Reflective Insulation in Building Constructions¹

This standard is issued under the fixed designation C727; 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

-Sections 2, 3.2.5, 5.1, 7.2, and footnotes 4 and 5 were editorially corrected in April 2007.

1. Scope

- 1.1 This practice has been prepared for use by the designer, specifier, and installer of reflective insulation for use in building construction. The scope is limited to recommendations relative to the use and installation of thermal insulation consisting of one or more surfaces, having an emittance of 0.1 or less such as metallic foil or metallic deposits unmounted or mounted on substrates and facing enclosed air spaces. The reflective insulation covered by this practice must meet the requirements of Specification
- 1.2 This practice covers the installation process from pre-installation inspection through post-installation procedure. It does not cover the production of the insulation materials.
- 1.3 This practice is not intended to replace the manufacturer's installation instructions, but shall be used in conjunction with such instructions. This practice is not intended to supercede local, state, or federal codes.
- 1.4 This practice assumes that the installer possesses a good working knowledge of the 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.
 - 1.5The values given in inch-pound units are to be regarded as standard. The SI units in parentheses are for information only.
- 1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.
- 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:²

C168 Terminology Relating to Thermal Insulation 1/4/5 ff900-6439-46dc-9075-cab0063492c3/astm-c727-12

C1224 Specification for Reflective Insulation for Building Applications

E96/E96M Test Methods for Water Vapor Transmission of Materials

2.2 NFPA Standards:

NFPA 31 Standard for the Installation of Oil Burning Equipment³

NFPA 54 National Fuel Gas Code³

NFPA 211 Standard for Chimneys, Fireplaces, and Vents³

2.3 Code of Federal Regulations:

16 CFR 460 Federal Trade Commission Trade Regulation Rule: Labeling and Advertising of Home Insulation⁴

3. Terminology

3.1 Definitions—For definitions of terms used in this practice refer to Terminology C168

¹ This practice is under the jurisdiction of ASTM Committee C16 on Thermal Insulation and is the direct responsibility of Subcommittee C16.21 on Reflective Insulation. Current edition approved March 1, 2007. Published April 2007. Originally approved in 1972. Last previous edition approved 2001 as C727-01. DOI: 10.1520/C0727-

Current edition approved May 1, 2012. Published June 2012. Originally approved in 1972. Last previous edition approved 2007 as C727 - 01(2007) 81. DOI: 10.1520/C0727-12.

For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, http://www.nfpa.org.

⁴ Federal Register, Vol 70, No. 103. Available from Department of Housing and Urban Development, 451 7th St. N.W., Washington, D.C. 20410.