

## § 460.1

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### APPENDIX TO PART 460—EXEMPTIONS

AUTHORITY: 38 Stat. 717, as amended (15 U.S.C. 41 *et seq.*).

SOURCE: 44 FR 50242, Aug. 27, 1979, unless otherwise noted.

#### § 460.1 What this regulation does.

This regulation deals with home insulation labels, fact sheets, ads, and other promotional materials in or affecting commerce, as “commerce” is defined in the Federal Trade Commission Act. If you are covered by this regulation, breaking any of its rules is an unfair and deceptive act or practice or an unfair method of competition under section 5 of that Act. You can be fined heavily (up to \$10,000 plus an adjustment for inflation, under §1.98 of this chapter) each time you break a rule.

[44 FR 50242, Aug. 27, 1979, as amended at 61 FR 54549, Oct. 21, 1996; 61 FR 55840, Oct. 29, 1996]

#### § 460.2 What is home insulation.

Insulation is any material mainly used to slow down heat flow. It may be mineral or organic, fibrous, cellular, or reflective (aluminum foil). It may be in rigid, semirigid, flexible, or loose-fill form. Home insulation is for use in old or new homes, condominiums, cooperatives, apartments, modular homes, or mobile homes. It does not include pipe insulation. It does not include any kind of duct insulation except for duct wrap.

#### § 460.3 Who is covered.

You are covered by this regulation if you are a member of the home insulation industry. This includes individuals, firms, partnerships, and corporations. It includes manufacturers, dis-

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tributors, franchisors, installers, retailers, utility companies, and trade associations. Advertisers and advertising agencies are also covered. So are labs doing tests for industry members. If you sell new homes to consumers, you are covered.

#### § 460.4 When the rules apply.

You must follow these rules each time you import, manufacture, distribute, sell, install, promote, or label home insulation. You must follow them each time you prepare, approve, place, or pay for home insulation labels, fact sheets, ads, or other promotional materials for consumer use. You must also follow them each time you supply anyone covered by this regulation with written information that is to be used in labels, fact sheets, ads, or other promotional materials for consumer use. Testing labs must follow the rules unless the industry members tells them, in writing, that labels, fact sheets, ads, or other promotional materials for home insulation will not be based on the test results.

#### § 460.5 R-value tests.

R-value measures resistance to heat flow. R-values given in labels, fact sheets, ads, or other promotional materials must be based on tests done under the methods listed below. They were designed by the American Society of Testing and Materials (ASTM). The test methods are:

(a) All types of insulation except aluminum foil must be tested with ASTM C 177-85 (Reapproved 1993), “Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus;” ASTM C 236-89 (Reapproved 1993), “Standard Test Method for Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box;” ASTM C 518-91, “Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus;” ASTM C 976-90, “Standard Test Method for Thermal Performance of Building Assemblies by Means of a Calibrated Hot Box;” or ASTM C 1114-95, “Standard Test Method for Steady-State

Thermal Transmission Properties by Means of the Thin-Heater Apparatus.” The tests must be done at a mean temperature of 75 °Fahrenheit. The tests must be done on the insulation material alone (excluding any airspace). R-values (“thermal resistance”) based upon heat flux measurements according to ASTM C 177-85 (Reapproved 1993) or ASTM C 518-91 must be reported only in accordance with the requirements and restrictions of ASTM C 1045-90, “Standard Practice for Calculating Thermal Transmission Properties from Steady-State Heat Flux Measurements.” These incorporations by reference were approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of the test procedures and standard practice may be obtained from the American Society of Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. Copies may be inspected at the Federal Trade Commission, Consumer Response Center, Room 130, 600 Pennsylvania Avenue, NW, Washington, DC 20580, or at the Office of the Federal Register, 800 North Capitol Street, NW, Suite 700, Washington, DC.

(1) For polyurethane, polyisocyanurate, and extruded polystyrene, the tests must be done on samples that fully reflect the effect of aging on the product’s R-value. To age the sample, follow the procedure in paragraph 4.6.4 of GSA Specification HH-I-530A, or another reliable procedure.

(2) For loose-fill cellulose, the tests must be done at the settled density determined under paragraph 8 of ASTM C 739-91, “Standard Specification for Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation.” This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of the test procedure may be obtained from the American Society of Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. Copies may be inspected at the Federal Trade Commission, Consumer Response Center, Room 130, 600 Pennsylvania Avenue, NW, Washington, DC 20580, or at the Office of the Federal Register, 800 North Capitol Street, NW, Suite 700, Washington, DC.

(3) For loose-fill mineral wool, the tests must be done on samples that fully reflect the effect of settling on the product’s R-value. When a settled density procedure becomes part of a final GSA Specification for loose-fill mineral wool, the tests must be done at the settled density determined under the GSA Specification.

(b) Aluminum foil systems with more than one sheet must be tested with ASTM C 236-89 (Reapproved 1993) or ASTM C 976-90, which are incorporated by reference in paragraph (a) of this section. The tests must be done at a mean temperature of 75 °Fahrenheit, with a temperature differential of 30 °Fahrenheit.

(c) Single sheet systems of aluminum foil must be tested with ASTM E408 or another test method that provides comparable results. This tests the emissivity of the foil—its power to radiate heat. To get the R-value for a specific emissivity level, air space, and direction of heat flow, use the tables in the most recent edition of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers’ (ASHRAE) Handbook. You must use the R-value shown for 50 °Fahrenheit, with a temperature differential of 30 °Fahrenheit.

(d) For insulation materials with foil facings, you must test the R-value of the material alone (excluding any air spaces) under the methods listed in paragraph (a) of this section. You can also determine the R-value of the material in conjunction with an air space. You can use one of two methods to do this:

(1) You can test the system, with its air space, under ASTM C 236-89 (Reapproved 1993) or ASTM C 976-90, which are incorporated by reference in paragraph (a) of this section. If you do this, you must follow the rules in paragraph (a) of this section on temperature, aging and settled density.

(2) You can add up the tested R-value of the material and the R-value of the air space. To get the R-value for the air space, you must follow the rules in paragraph (c) of this section.

[44 FR 50242, Aug. 27, 1979, as amended at 55 FR 10055, Mar. 19, 1990; 55 FR 12110, Mar. 30, 1990; 61 FR 13665, Mar. 28, 1996; 63 FR 71587, Dec. 28, 1998]