

SUBCHAPTER F—REFRIGERATOR SAFETY ACT REGULATIONS

PART 1750—STANDARD FOR DEVICES TO PERMIT THE OPENING OF HOUSEHOLD REFRIGERATOR DOORS FROM THE INSIDE

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§ 1750.1 Definitions.

As used in this part:

(a) *Act* means the Refrigerator Safety Act (Pub. L. 84-930, 70 Stat. 953; 15 U.S.C. 1211-14), enacted August 2, 1956.

(b) *Commission* means the Consumer Product Safety Commission established by the Consumer Product Safety Act (Pub. L. 92-573, sec. 4, 86 Stat. 1210; 15 U.S.C. 2053).

(c) *Device* means the mechanism or the means provided for enabling the doors of household refrigerators to be opened from the inside.

(d) *Effective date* means the date under the provisions of the act after which all household refrigerators manufactured and introduced or delivered for introduction into interstate commerce must comply with this standard. This date is October 30, 1958.

(e) *Household refrigerator* means a cabinet or any part of a cabinet designed for the storage of food at temperatures above 0 °C. (32 °F.), having a source of refrigeration, and intended for household use.

(f) *Opened* as applied to a refrigerator door means to effect release of the latching mechanism so that a trapped child would have to apply little or no further effort in order to escape.

(g) *Shelving* means any shelf, basket, drawer, or baffle which can be readily removed from the refrigerator without the use of tools.

§ 1750.2 Transfer of functions.

Effective May 14, 1973, section 30(c) of the Consumer Product Safety Act (86 Stat. 1231; 15 U.S.C. 2079(c)) transferred functions under the Refrigerator Safety Act from the Secretary of Commerce and the Federal Trade Commission to the Consumer Product Safety Commission.

§ 1750.3 Scope and application.

This standard shall apply to devices furnished with household refrigerators manufactured and introduced or delivered for introduction into interstate commerce after the effective date (October 30, 1958) which enable such refrigerators to be opened from the inside. The requirements of this standard shall apply to household refrigerators in their normal operating position only. The releasing feature(s) of the device shall be accessible from all spaces which (a) are bounded by interior walls or shelving, (b) are directly accessible when the exterior hinged door(s) is (are) opened, and (c) have a minimum dimension of 20.3 centimeters (8 inches) or more and a volume of 56.6 cubic decimeters (2 cubic feet) or more either with all shelving in place or as the result of the removal or the rearrangement of any or all of the shelving.

§ 1750.4 General requirements.

Household refrigerators shall be equipped with a device enabling the doors thereof to be opened easily from the inside, either by the application of an outwardly directed force to the inside of the door or by the rotation of a knob similar to a conventional door-knob. The device shall not render the refrigerator unsatisfactory for the preservation of food under any or all normal conditions of use.

§ 1750.5 Detailed requirements.

(a) *Releasing forces*. As determined by the tests prescribed by §1750.6, the device:

(1) Shall permit the refrigerator door to be opened on the application of a force equivalent to one which, if directed perpendicularly to the plane of

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the door and applied anywhere along the latch edge of the inside of the closed door, shall not exceed 66.7 newtons (15 pounds);

(2) Shall permit the refrigerator door to be opened on the application of clockwise or counterclockwise turning moment of not more than 0.57 newton-meter (5 inch-pounds) to a knob on the door through an angle of rotation of 45° ±15° in either direction; or

(3) Shall function automatically to permit the door to be opened with a force of 66.7 newtons (15 pounds) or less applied as described in paragraph (a)(1) of this section whenever space(s) exist(s) or is (are) created with dimensions and volumes exceeding the dimensions and volumes imposed by §1750.3.

(b) *Description and location of knob(s).* The knob(s) shall resemble a conventional doorknob in shape and size and shall be mounted near the latch side of the door extending into the cabinet at least 6.3 millimeters (¼ inch) beyond any inner door surface within a 15.2-centimeter (6-inch) radius of the knob center. The knob(s) shall be mounted in such a manner that there is a minimum of 19.0-millimeter (¾-inch) clearance between the inner periphery of the knob(s) and adjacent inner door surfaces. The knob(s) shall be located so as to provide the accessibility required by §1750.3.

(c) *Wear.* The device shall comply with the requirements of paragraph (a) of this section after 300,000 cycles of operation of the door as determined by the tests prescribed by §1750.6.

(d) *Protection against adverse effects from spillage, cleaning, defrosting, and condensation.* Devices shall be designed so that spillage of foods or beverages, cleaning or defrosting in accordance with manufacturer's recommendations, or normal condensation will not so adversely affect the operation of the device as to result in its failure to meet the requirements of paragraph (a) of this section, as determined by the tests prescribed by §1750.6.

(e) *Devices which permit door to be opened as a result of forces or turning moments applied to movable components inside the refrigerator.* Those components of a device upon which the safety features of the device depend shall not

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break, crack, permanently deform, nor show other visible damage when subjected to forces and moments specified in the tests under §1750.6(c). The requirements of paragraph (a) of this section shall be satisfied after the device has been subjected to the tests under §1750.6(c).

(f) *Power supply.* The device shall operate in accordance with the requirements of this standard with the electric, gas, or other fuel supply either on or off.

§ 1750.6 Tests.

It is the intent of this standard that where tests are not specified, the general and detailed requirements shall be checked by inspection, simple measurement, and by consideration of pertinent standard commercial practices. Compliance with the requirements of §1750.5 (a), (c), (d), and (e) shall be checked with the aid of the following tests:

(a) *Test for releasing force on door.* The force measurements shall be made by means of a force gage with a calibrated accuracy within ±1.3 newtons (±0.3 pound) when measuring a force of 66.7 newtons (15 pounds). The dial of the gage shall be graduated with finest divisions not exceeding 0.9 newton (0.2 pound), and the full-scale range shall not exceed 133.4 newtons (30 pounds). Measurements shall be made at three points on the door near the inside latch edge—one point near the top of the interior space created by removal of all shelving, one point near the bottom, and one point midway between these two points. The requirements of §1750.5(a)(1) shall be satisfied.

(b) *Test for knob torque.* The measurement of the turning moment required to operate the knob release shall be made with a torque gage adapted for attachment to the knob or knob shaft. The gage shall have a calibrated accuracy within ±0.011 newton-meter (0.10 inch-pound) when measuring a moment of 0.57 newton-meter (5 inch-pounds). The finest graduations on the dial of the gage shall correspond to a moment increment not greater than 0.011 newton-meter (0.10 inch-pound) and the full-scale range shall not exceed 1.13 newton-meters (10 inch-pounds) in each direction from the null reading. The