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turning moment shall be applied so as to rotate the knob the full amount required for release, in both a clockwise and a counterclockwise direction. The angle of rotation required for release shall be checked by means of an angle gage adapted to measure the angle of rotation about the longitudinal axis of the knob shaft. The gage shall have a calibrated accuracy within $\pm 1^{\circ}$ at an angle of 45° and the finest divisions shall not exceed 1°. The requirements of § 1750.5(a)(2) shall be satisfied.

- (c) Tests for strength of device components which affect the safety features of the device. (1) The tests prescribed by paragraph (c)(2) of this section shall apply only to devices which permit the door to be opened as a result of forces or turning moments applied to movable components inside the refrigerator.
- (2) A turning moment of 2.26 newtonmeters (20 inch-pounds) shall be applied for 50 successive operations in a clockwise direction, followed by 50 successive similar operations in a counterclockwise direction, to components designed to permit the door to be opened as a result of the application of a turning moment to them. The turning moment shall be applied to the outer periphery of the component provided. The gage used for registering the moment applied shall have a calibrated accuracy within ±0.044 newton-meter (±0.4 inch-pound) when measuring a moment of 2.26 newton-meters (20 inch-pounds). The finest graduations on the dial of the gage shall correspond to a moment increment not greater than 0.044 newton-meter (0.4 inch-pound) and the fullscale range of the gage shall not exceed 4.52 newton-meters (40 inch-pounds) in each direction from the null reading. The turning moment applied in each operation shall be applied for a period of time sufficient for the component to come to rest after completing the extent of movement for which designed. A pushing force of 89.0 newtons (20 pounds) shall be applied for 50 successive operations, followed, if applicable, by 50 successive similar operations with a pulling force, to components designed to permit the door to be opened as a result of the application of a force to them. Areas which may be, in service, subjected to pushing or pulling forces which create maximum stresses

(for example, points on the outer periphery of components designed to transmit a turning moment, or unsupported portions of members or areas designed for transmitting a force) shall be subjected to test. The gage used for registering the force applied shall have a calibrated accuracy within ±1.8 newtons (±0.4 pound) when measuring a force of 89.0 newtons (20 pounds). The finest graduations on the dial of the gage shall correspond to a force not in excess of 1.8 newtons (0.4 pound) and the full-scale range shall not exceed 177.9 newtons (40 pounds).

- (3) Upon being subjected to the tests prescribed by paragraph (c)(2) of this section, no device component on which the safety features of the device depend shall break, crack, permanently deform, or show other visible damage. The device must satisfy the requirements of §1750.5(a) after being subjected to the tests in paragraph (c)(2).
- (d) Simulated use test. Tests shall be conducted on the completely assembled refrigerator in its normal operating position to determine that the release device complies with the requirements of §1750.5 during and after the 300,000 cycles of door operation and following exposure to spillage of foods and beverages, to cleaning and defrosting in accordance with the manufacturer's recommendations, and to condensation. The equipment provided for operating the door shall open the door sufficiently on each cycle to assure a complete cycle of operation for the latch mechanism.

§1750.7 Provision for changes in the standard.

- (a) Section 5 of the act provides for the possibility of changes in the commercial standard first established pursuant to section 3 of the act and allows a period of 1 year and 90 days for compliance with such changes after they are published.
- (b) Any person wishing to propose a change in this standard shall submit to the Secretary, Consumer Product Safety Commission, Washington, D.C. 20207, the proposed change. Before a change is recommended, the Consumer Product Safety Commission shall secure advice and consultation from public or private sources including particularly the

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household refrigerator manufacturing industry and the Division of Maternal and Child Health, Health Resources and Services Administration, Public Health Service, Department of Health and Human Services. The Commission shall then take such action as it deems appropriate.

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