4.11 **Test 10 Drawer Slides Test**

4.11.1 Unless otherwise specified, the following shall be the minimum performance requirements for cabinet drawer slides.

4.11.2 All drawer slides shall have a stop position or warning stop as specified and when the drawer is loaded with the weight specified for the cycle test and the drawer is opened at a rate not exceeding 12 in/sec (305 mm/sec):

A warning stop shall cause the force required to open a drawer through the warning stop position to increase at least 2 times the normal drawer operating force with that loading. A stop position shall cause the force required to open a drawer through the stop position to increase at least 10 times the normal drawer operating force with that loading.

4.11.3 All drawer slides shall permit complete drawer removal. Normal or abnormal placement of loads in a drawer shall not cause the drawer to be removed or partially removed from its suspended position when the drawer is operated through its opening and closing cycle.

4.11.4 The slide shall be completely operable after cycle life test.

4.11.5 After cycle testing, the tested drawer shall support the specified load without a sudden collapse of the drawer.

4.11.6 **Cycle Life Test Conditions**

4.11.6.1 A simulated or actual drawer shall be used and the hardware shall be installed according to the manufacturers' instructions. If staples are used, a hardwood face frame and rear support shall be used. Unless otherwise specified by the manufacturer, where a separate rear bracket is used to receive the slide, the slide shall be installed midway into the bracket. The test drawer is defined as 24 in.+/- ¼ in. (610mm +/- 6mm) wide and mounted with 18in. (457mm) standard drawer slides per the manufacturer's installation instructions.

4.11.6.2 For the cycle test the drawer shall have weights equally distributed so that its total cycle load will be as specified.

4.11.6.3 Each cycle shall consist of opening and closing the drawer for two-thirds of its total travel to within ¼ in. (6mm) of the open warning stop position, or to within ¼ in. (6mm) of the open stop position.

4.11.6.4 Cycle test at a rate of 10 +/- 2 cycles per minute.

4.11.6.5 Loosely couple the cycle-testing machine to the drawer so that additional loads are not placed on the slide being tested.

4.11.6.6 At the beginning of the cycle test, measure and record the maximum drawer opening force for the fully loaded test drawer. Next, measure and record warning stop or stop position force. All forces must meet the requirements as defined in 4.11.2. Using the test drawer defined in 4.11.6.1, cycle the the drawer slides for the number required in Table 4.11.8.

4.11.7 **Load Test Conditions**

4.11.7.1 After the cycle test and without removing the cycle test load, the tested unit shall be edge load tested.

4.11.7.2 The specified edge load shall be slowly and carefully applied normal to the plane of the drawer bottom and on the center line of the drawer front when the drawer is opened to half of its total travel to the stop or warning stop position. The load shall be applied for one minute.

4.11.8 **Drawer Slide Test Values**

Product Grade	Cycle Life	Cycle Load - lbs. (Kg)	Edge Load - lbs. (Kg)
1	50,000	50 (222)	75 (334)
2	35,000	30 (133)	50 (222)
3	25,000	20 (89)	50 (222)