(b) protect the building from sewer gas
(c) be serviceable and accessible

2.2 Fixture Mounting System

The wall mounted or pedestal mounted adjustment mechanism shall provide the necessary means for mounting the lavatory, sink, or shampoo bowl over the manufacturer’s intended range of travel, with an adjustable mechanism to position the fixture either vertically, laterally, vertically and laterally, or allow the fixture to pivot or tilt up and down.

2.3 Sink, Lavatory, or Shampoo Bowl Fixtures and Flexible Water Supply Connectors

The sink, lavatory, or shampoo bowl fixtures and flexible water supply connectors shall comply with the applicable product standard(s) regarding materials, manufacture, and installation. These include those listed in para. 1.3
(a) ANSI Z124.3
(b) ANSI Z124.6
(c) ASME A112.18.2/CSA B125.2
(d) ASME A112.18.6
(e) ASME A112.19.1M
(f) ASME A112.19.2
(g) ASME A112.19.3M
(h) ASME A112.19.4M
(i) ASME A119.19.9M

2.4 Flexible Waste System and Telescoping Tailpiece Waste System

The trap seal provided by the flexible waste system shall be a minimum of 2 in. (51 mm) in depth, when evaluated in accordance with para. 3.2. Materials used in the construction of the flexible waste system shall be either metallic, plastic, or elastomeric that comply with the requirements of para. 3.2 and ASME A112.18.2/CSA B125.2.

2.4.1 The telescoping tailpiece waste system shall have a minimum outside diameter of 1 1/2 in. (39 mm) for sink and shampoo bowls and 1 3/4 in. (32 mm) minimum for lavatory tailpieces. The standpipe may be constructed in either single or multiple stage models for different applications. All moving components shall be designed and constructed to seal with a double O-ring at each junction. The standpipe must always be installed in a vertical position.

2.4.2 Telescoping Tailpiece Waste System Linkage Material. Linkage materials that contain stainless steel cables shall comply with Fed Spec RR-W-410, and cable eyes shall comply with Mil Spec 20668.

2.4.3 Trap Seal of Flexible Hoses. PVC wastes that contain a flexible waste hose shall be factory solvent welded to the trap or trap adapter using PVC solvent cement complying with ASTM D 2564. The flexible hose shall be supported in such a manner that it is prevented from bending to form a second trap.

2.4.4 Pressure and Leakage Tests. The flexible waste system or a telescoping tailpiece waste system shall comply with the pressure and leakage requirements of ASME A112.18.2/CSA B125.2.

2.4.5 Flow Test. The flexible waste system or a telescoping tailpiece waste system shall comply with the flow rate requirements of ASME A112.18.2/CSA B125.2.

2.5 Flexible Water Supply Connectors

Flexible water supply connectors shall comply with ASME A112.18.6.

3 TESTING

3.1 Adjustable, Elevating, Tilting, and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems

3.1.1 Load Testing

3.1.1.1 Test Method for Mounting System. The mounting system shall be installed in accordance with the manufacturer’s instructions. A load of 250 lb (113.4 kg) shall be applied on the top of the lavatory, sink, or shampoo bowl fixture rim for a period of 15 min, in both its highest and lowest positions. When lateral adjustments are provided, the test shall be conducted to apply the load of 250 lb (113.4 kg) to the carrier. After application of the required load, the assembly shall be inspected for damage. The device shall be operated through its full range of travel.

3.1.1.2 Performance Requirement. The assembly shall demonstrate no sign of damage during and after the application of the load. When the device is operated through its full range of travel, it shall function as it did prior to the load test.

3.1.2 Vertical, Pivotal, and Tilt Adjustment

3.1.2.1 Adjustment. The mounted adjustment mechanism shall provide adjustment for use as specified by the product manufacturer. For an adjustable position or elevating sink, lavatory, or shampoo bowl with specified pivotal and tilt adjustment, the mechanism shall provide a pivot or tilt adjustment of not less than 10 deg and not more than 20 deg. For an adjustable position or elevating sink, lavatory, or shampoo bowl with specified vertical adjustment, the mechanism shall provide vertical adjustment not less than 2 in. (51 mm) and not more than 30 in. (762 mm).

3.1.2.2 Test Method. The assembled system shall be operated throughout its full range of vertical adjustment and the travel shall be measured.

3.1.2.3 Performance Requirement. The carrier shall provide a vertical adjustment of not less than