

## **5.35 Food shields**

### **5.35.1 General requirements**

Portable and non-portable food shields shall conform to the general requirements in 5.35.1 and to the applicable specific use requirements of 5.35.2 through 5.35.8.

**5.35.1.1** Food shield materials shall conform to the splash zone material requirements of 4.

**5.35.1.2** Food shields shall be designed and manufactured to conform to the splash zone requirements of 5.

**5.35.1.3** A food shield shall provide a barrier between the mouth of a customer and unpackaged food to minimize the potential of contamination of the food by a customer. A food shield in compliance with the applicable requirements herein, shall be considered to be in compliance with the barrier requirement.

**5.35.1.4** If provided, lights, heating elements and other accessory fixtures shall be designed, manufactured and installed to conform to the splash zone requirements of 4 and 5.

**5.35.1.5** Food shield glass shall conform to the requirements of NSF/ANSI 51. To protect against chipping, exposed edges of glass shall be protected by tight fitting channels, stripping materials, or other means such as rounding the edges of tempered glass.

#### **5.35.1.6 End shield**

**5.35.1.6.1** A vertical barrier shall be provided at each end of a food shield. The vertical barrier shall be a minimum of 18 in (450 mm) deep (front-to-back) beginning at the bottom leading edge of the food shield. The minimum height of the vertical barrier shall be equal to the overall height of the food shield. The maximum distance from the bottom edge of the vertical barrier and counter top shall be 1.5 in (38 mm).

**5.35.1.6.2** A food shield intended to be installed a maximum of 3 in (76 mm) from a building wall perpendicular to the food shield is exempt from the requirements of 5.35.1.6.1 provided that the height of the building wall is not lower than the overall height of the food shield. The manufacturer's specification sheet, brochure, installation instructions and/or shop drawings shall include these building wall and proximity requirements.

**5.35.1.7** The maximum open space in any plane between adjacent food shield panels shall be 2 in (51 mm), excluding post and framing members that are:

- located in the open space between food shield panels; and
- parallel with the open space between food shield panels.

**5.35.1.8** Food shields shall be designed and manufactured to minimize obstruction of a customer's view of the food.

### **5.35.2 Self-service food shields (see figure 16A)**

**5.35.2.1** The maximum vertical distance between a counter top and the bottom leading edge of a food shield shall be 13 in (330 mm).

**5.35.2.2** The minimum horizontal distance between the front inside edge of displayed food and the bottom leading edge of a food shield shall be three-quarters of the vertical distance ( $0.75 \times$  vertical distance) of 5.35.2.1.

**5.35.2.3** The sum of a food shield's protected horizontal plane (X) and its protected vertical plane (Y) shall be greater than or equal to 20 in (508 mm). Either X or Y may equal 0 in (0 mm).

**5.35.2.4** End shields may be angled from the bottom leading edge of the food shield towards the edge of displayed food a maximum of three-quarters of the vertical distance (0.75 x vertical distance) of 5.35.2.1.

### **5.35.3 Multiple tier food shields**

**5.35.3.1** A bottom tier self-service food shield shall conform to 5.35.2.

**5.35.3.2** All tiers above the bottom tier shall have a permanent attached label restricting use to wrapped or packaged serving portions.

**5.35.3.3** All tiers above the bottom tier are exempt from 5.35.1.6.

### **5.35.4 Vertical food shields** (see figure 16B)

**5.35.4.1** Vertical food shields shall provide a barrier to a minimum height of 60 in (1524 mm) above the finished floor. The manufacturer's product information, installation instructions and/or shop drawings shall include guidelines for meeting the 60" (1524 mm) minimum height requirement.

**5.35.4.2** The maximum vertical distance from the bottom edge of the food shield and counter top shall be 6 in (152 mm).

**5.35.4.3** The minimum horizontal distance between the front inside edge of displayed food and the front (customer side) face of the food shield shall be three-quarters of the vertical distance (0.75 x vertical distance) of 5.35.4.2.

**5.35.4.4** End shields shall comply with 5.35.1.6 except the minimum depth (front-to-back) may be reduced to 12 in (305 mm).

### **5.35.5 Food shields for use on cafeteria counters** (see figure 16C)

**5.35.5.1** The sum of a food shield's protected horizontal plane (X) and its protected vertical plane (Y) shall be greater than or equal to 24 in (610 mm). When Y meets the height requirement of 5.35.4.1, no top glass is required.

**5.35.5.2** The maximum distance from the bottom edge of the front (vertical) glass and counter top shall be 1.5 in (38 mm).

**5.35.5.3** The maximum open space between vertical and horizontal food shield panels is 0.75 in (19 mm).

**5.35.5.4** The minimum horizontal distance between the front inside edge of displayed food and the bottom leading edge of a food shield is 1.5 in (38 mm).

### **5.35.6 Free standing food shields for use with counter top equipment** (see figures 16D and 16E)

**5.35.6.1** The maximum vertical distance between the finished floor and the bottom leading edge of a food shield shall be 52 in (1321 mm).

**5.35.6.2** The minimum horizontal distance between the front of counter top equipment and the bottom leading edge of a food shield shall be 7 in (178 mm).

**5.35.6.3** The sum of a food shield's protected horizontal plane (X) and its protected vertical plane (Y) shall be greater than or equal to 20 in (508 mm). Either X or Y may equal 0 in (0 mm).

**5.35.6.4** End shields may be angled from the bottom leading edge of the food shield towards the top front corner of counter top equipment a maximum of 7 in (178 mm).

**5.35.6.5** The manufacturer's product information, installation instructions and/or shop drawings shall include a statement, illustration or diagram indicating the compliance criteria in 5.35.6.1 and 5.35.6.2.

**5.35.7 Self-service food shields attached to counter top equipment** (see figure 16F)

**5.35.7.1** The maximum vertical distance between the finished floor and the bottom leading edge of a food shield shall be 52 in (1321 mm).

**5.35.7.2** The maximum vertical distance between the food display area and bottom leading edge of a food shield shall be 15 in (381 mm).

**5.35.7.3** The minimum horizontal distance between the front of the food display area and the bottom leading edge of a food shield shall be 7 in (178 mm).

**5.35.7.4** The sum of a food shield's protected horizontal plane (X) and its protected vertical plane (Y) shall be greater than or equal to 20 in (508 mm). Either X or Y may equal 0 in (0 mm).

**5.35.7.5** End shields may be angled from the bottom leading edge of the food shield towards the top front corner of the food display area a maximum of 7 in (178 mm).

**5.35.7.6** The manufacturer's product information, installation instructions and/or shop drawings shall include a statement, illustration or diagram indicating the compliance criteria in 5.35.7.1, 5.35.7.2 and 5.35.7.3.

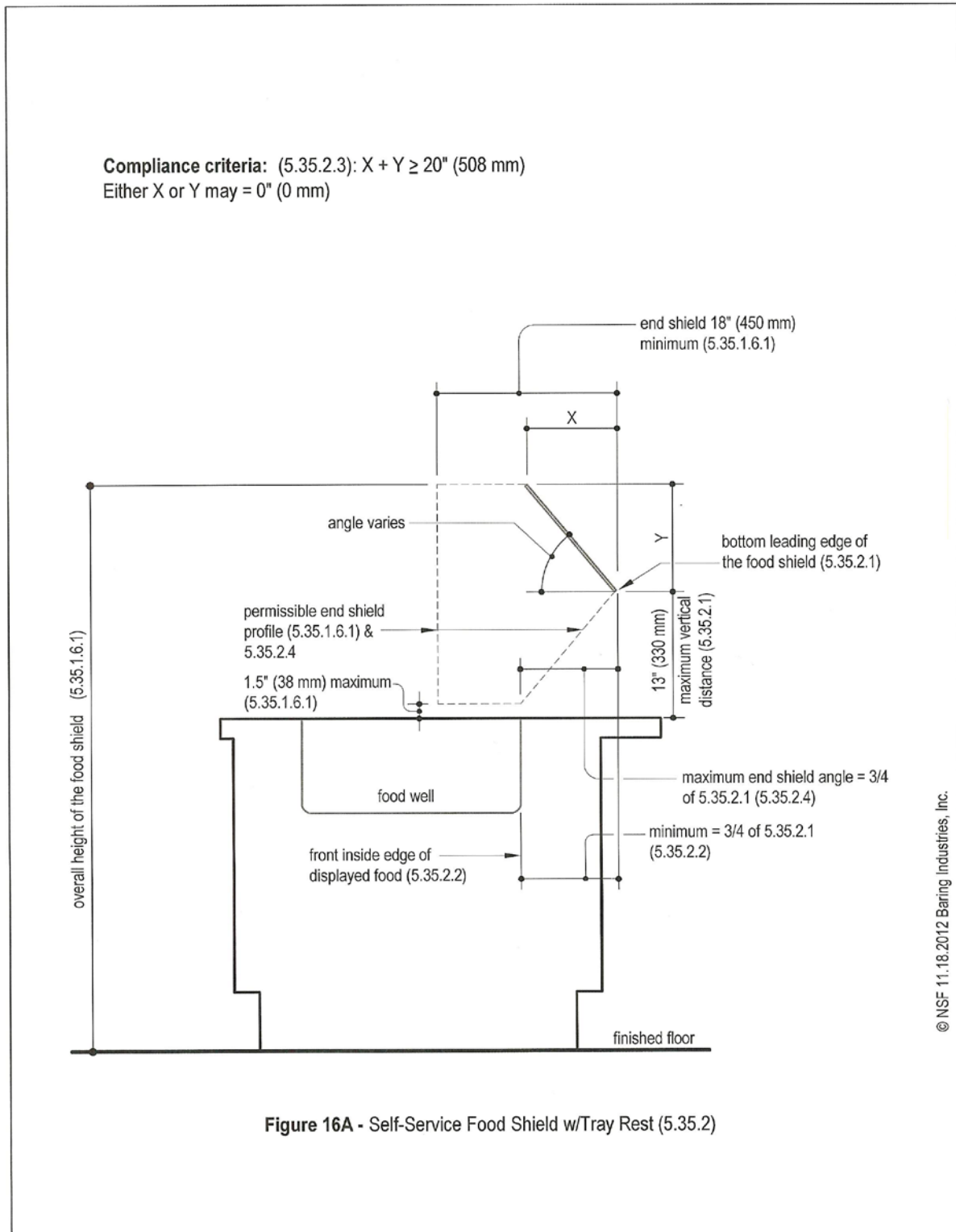
**5.35.8 Vertical food shields attached to counter top equipment** (see figure 16G)

**5.35.8.1** Vertical food shields shall provide a barrier to a minimum height of 30 in (762 mm) above the counter top.

**5.35.8.2** The maximum vertical distance from the bottom edge of the food shield and food display area shall be 6 in (152 mm).

**5.35.8.3** The minimum horizontal distance between the front inside edge of displayed food and the front (customer side) face of the food shield shall be three-quarters of the vertical distance (0.75 x vertical distance) of 5.35.8.2.

**5.35.8.4** End shields shall comply with 5.35.1.6 except the minimum depth (front-to-back) may be reduced to 6 in (152 mm).



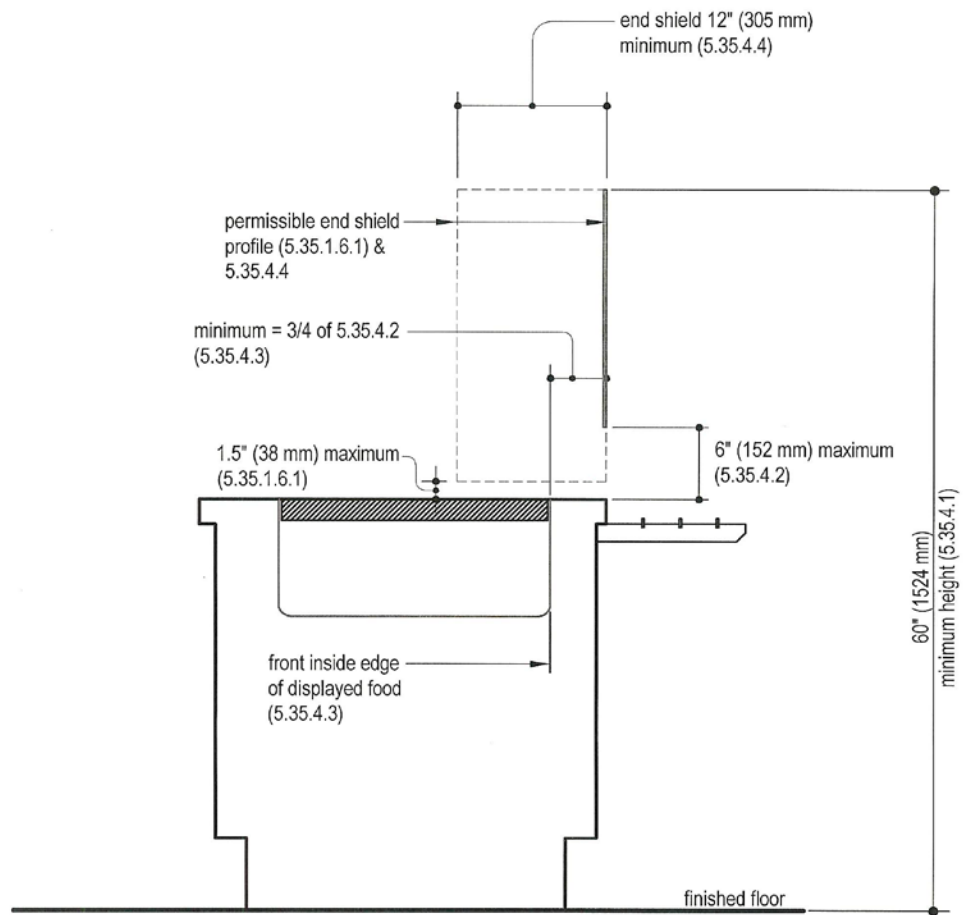


Figure 16B - Vertical Food Shield (5.35.4)

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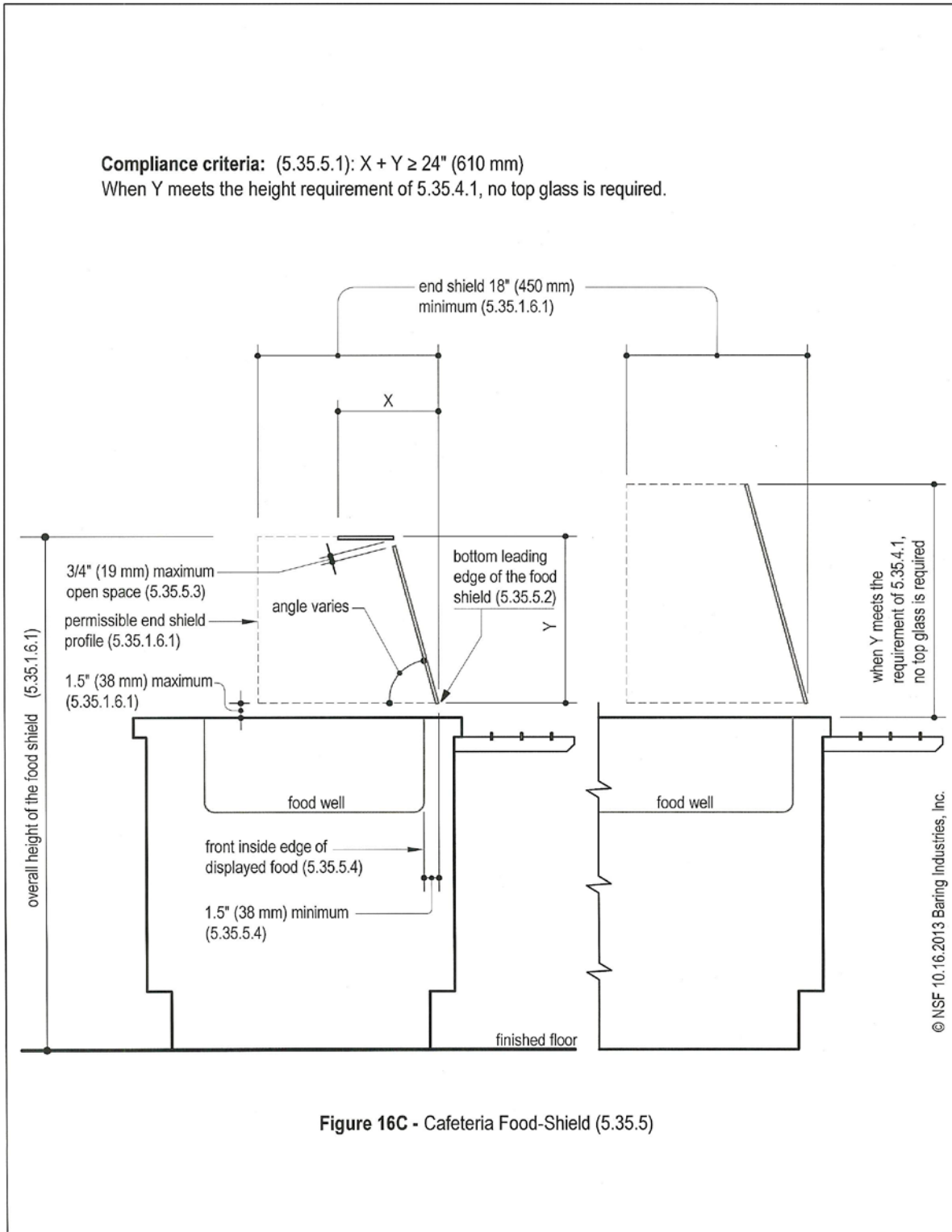
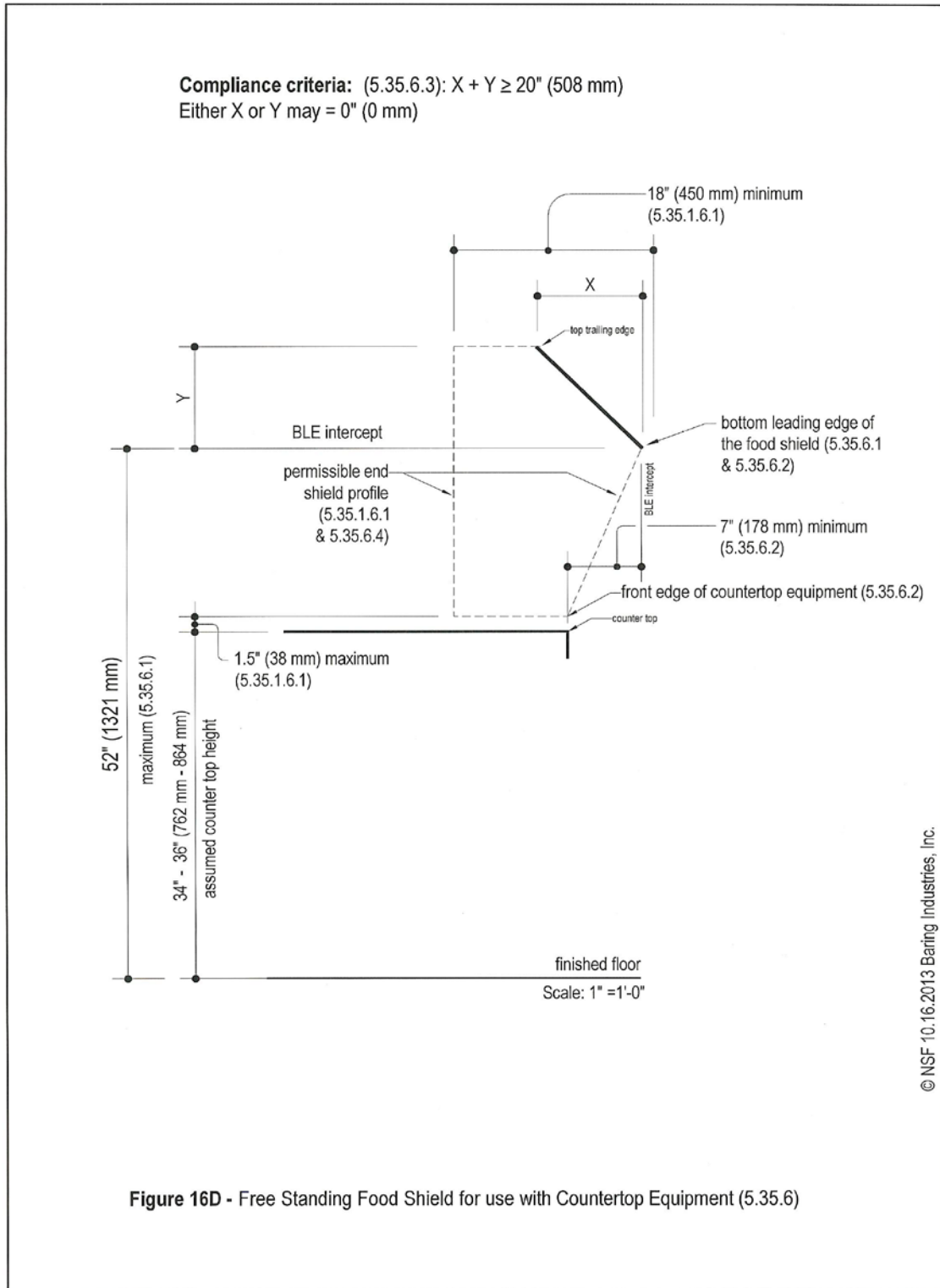
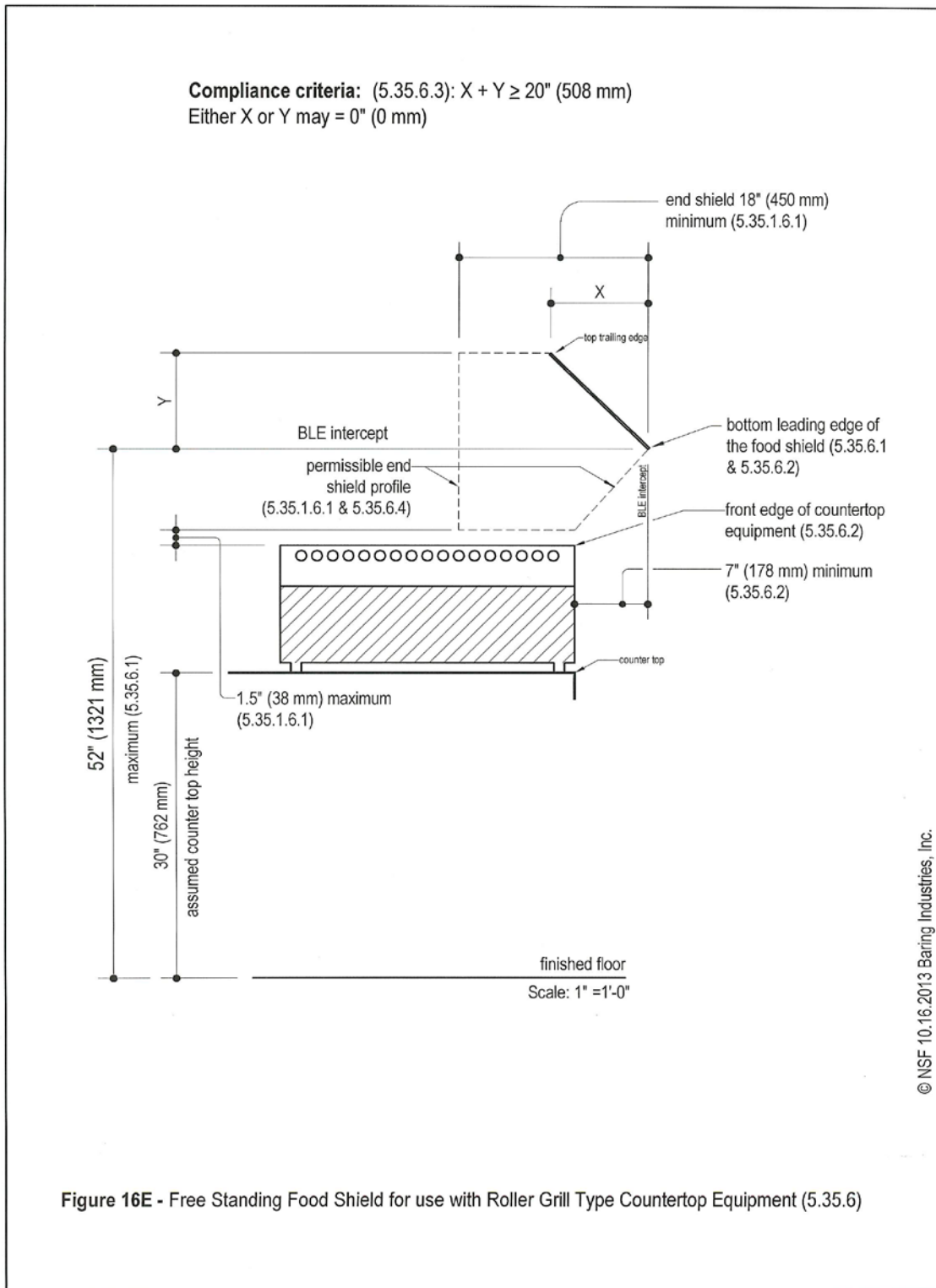


Figure 16C - Cafeteria Food-Shield (5.35.5)







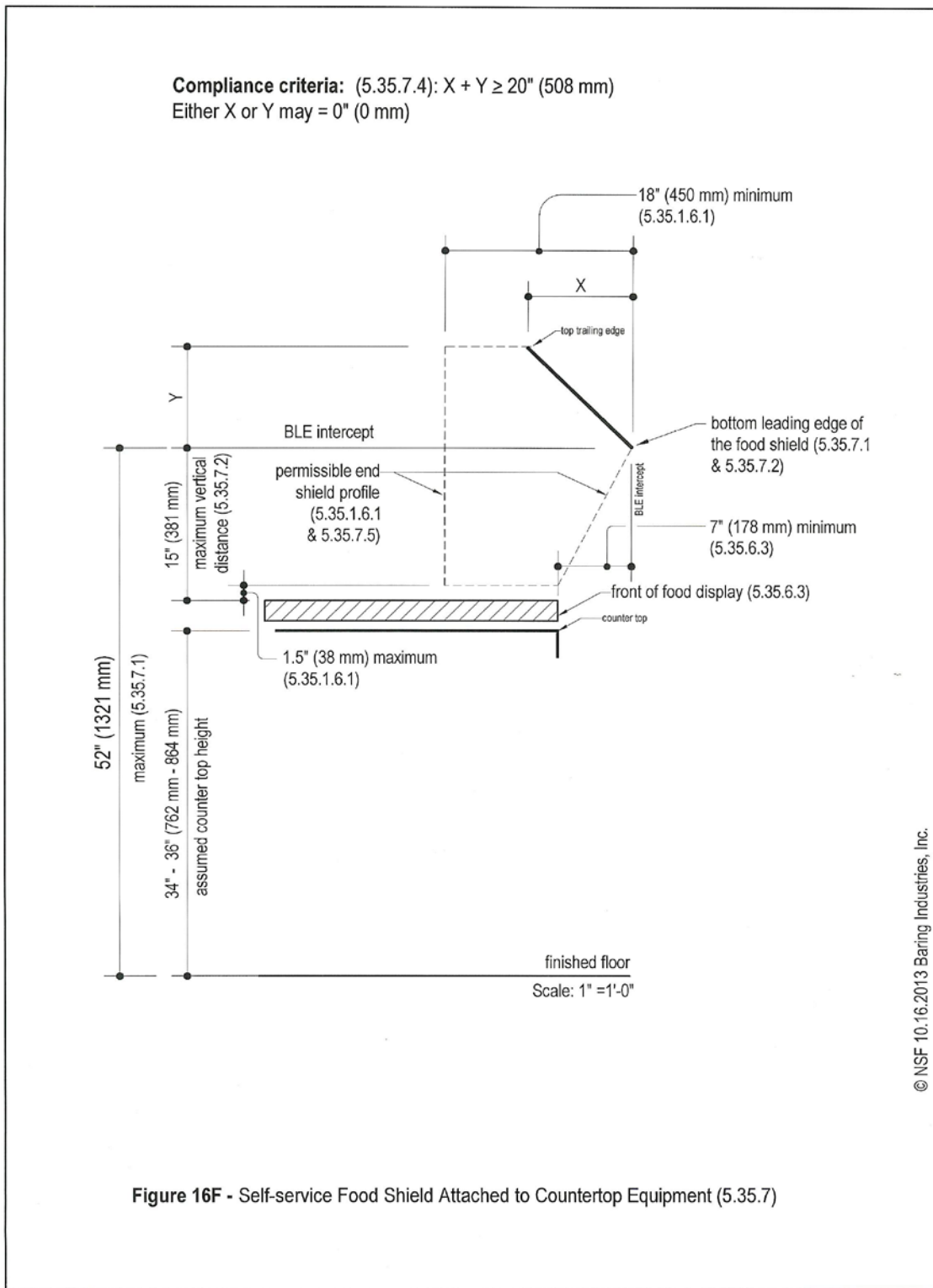


Figure 16F - Self-service Food Shield Attached to Countertop Equipment (5.35.7)

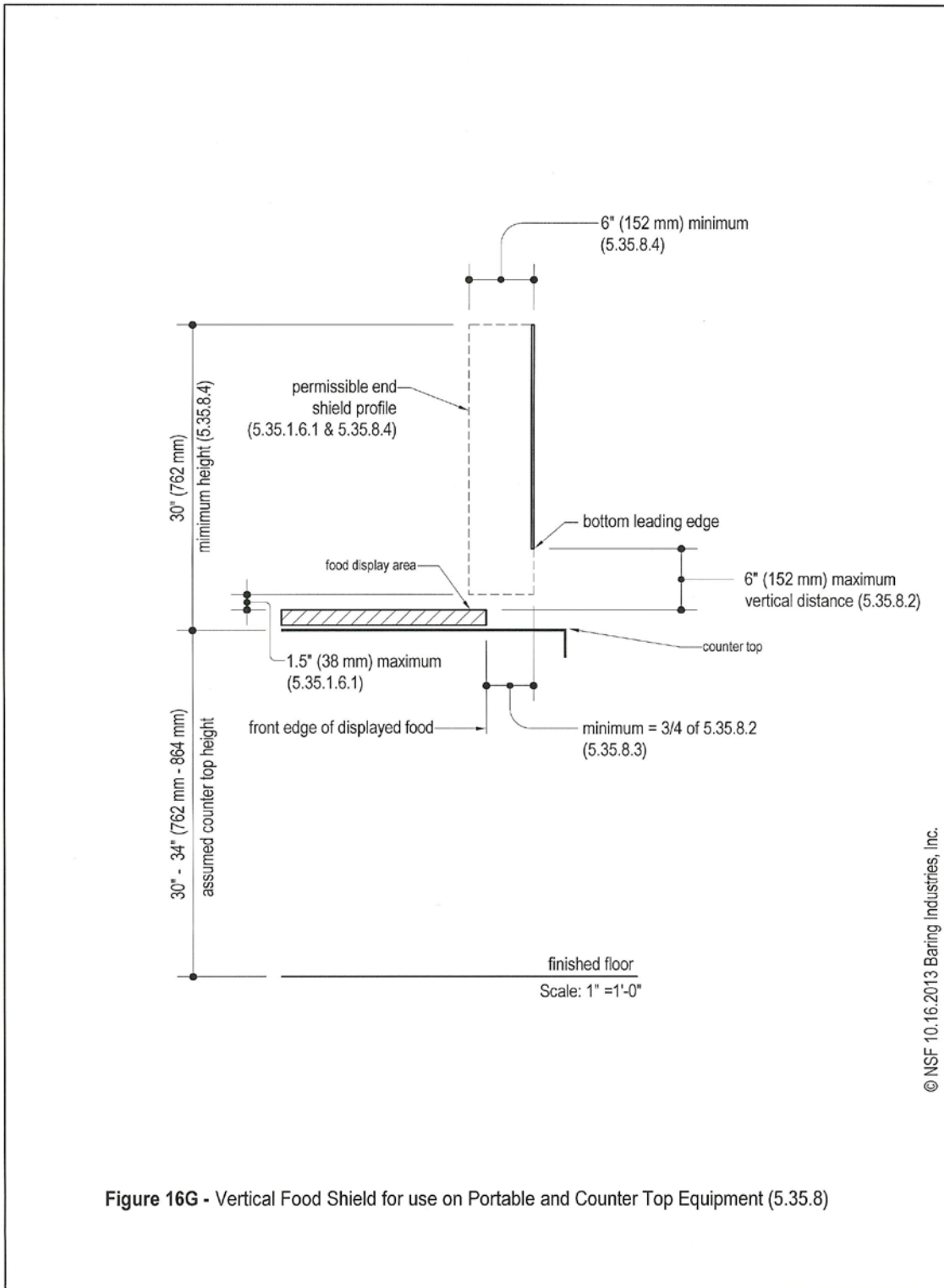


Figure 16G - Vertical Food Shield for use on Portable and Counter Top Equipment (5.35.8)