

GG264-14

808.3.1.1, Figure 808.3.1.1(4)

Proponent: Jack Bailey, One Lux Studio, representing International Association of Lighting Designers (jbailey@oneluxstudio.com)

Revise as follows:

808.3.1.1 Sidelighting. The daylit area shall be illuminated by fenestration that complies with Table 808.3.1.1 and ~~Figure 808.3.1.1(4)~~. Where fenestration is located in a wall, the daylit area shall extend laterally to the nearest 56-inch-high (1422 mm) partition, or up to 1.0 times the height from the floor to the top of fenestration facing within 45 degrees (0.785 rad) of east or west or up to 1.5 times the height from the floor to the top of all other fenestration, whichever is less, and longitudinally from the edge of the fenestration to the nearest 56-inch-high (1422 mm) partition, or up to 2 feet (610 mm), whichever is less, as indicated in Figure 808.3.1.1(1). Where fenestration is located in a rooftop monitor, the daylit area shall extend laterally to the nearest 56-inch-high (1422 mm) partition, or up to 1.0 times the height from the floor to the bottom of the fenestration, whichever is less, and longitudinally from the edge of the fenestration to the nearest 56-inch-high (1422 mm) partition, or up to 0.25 times the height from the floor to the bottom of the fenestration, whichever is less, as indicated in Figures 808.3.1.1(2) and 808.3.1.1(3).

$$EA = (AF \times VT) / DA \quad \text{(Equation 8-2)}$$

where:

EA = Effective aperture.
 AF = Area of fenestration.

VT = Visible transmittance of the fenestration.
 DA = Daylit area.

**TABLE 808.3.1.1
 MINIMUM EFFECTIVE APERTURE**

SKY TYPE	MINIMUM EFFECTIVE APERTURE (percentage)		
	Sidelighting from fenestration in a wall [see Figure 808.3.1.1(1)]	Sidelighting from rooftop monitor [see Figures 808.3.1.1(2) and 808.3.1.1(3)]	Toplighting (see Figure 808.3.1.2)
^a A	10.0	5.0	1.0
^b B	12.0	6.0	1.2
^c C	16.0	8.0	2.2

- a. Sky type as determined in accordance with Section 808.4, Sky Type A—more than 75 percent mean sunshine, in accordance with the NOAA Annual Mean Sunshine Percentage Table.
- b. Sky Type B—45 percent to 75 percent mean sunshine, in accordance with the NOAA Annual Mean Sunshine Percentage Table.
- c. Sky Type C—less than 45 percent mean sunshine, in accordance with the NOAA Annual Mean Sunshine Percentage Table.

Delete without substitution:

**FIGURE 808.3.1.1(4)
 SKY TYPES**

Reason: Figure 808.3.1.1(4) is not necessary and does not offer an accurate way of determining sky types. Sky types should be determined from Section 808.4. The Figure is good supplemental information for the Commentary but should not be in the code book.

Cost Impact: Will not increase the cost of construction

GG264-14 : 808.3.1.1-BAILEY600
