



Edwards® Strobe Application Data

Description

The National Fire Protection Association (NFPA) has established guidelines for the installation of visual signaling appliances for rooms, corridors, and sleeping areas. These guidelines, referenced in NFPA 72, take into consideration the effective intensity of the strobe light, the size of the space, and whether the appliance is installed on the wall or ceiling.

Edwards synchronous, fire alarm strobes are listed to UL Standard 1971 and conform to the ADA (Americans with Disabilities Act) equivalent facilitation when installed using these guidelines. Consult the Authority Having Jurisdiction.

Space Allocation for Rooms

Table 1 provides the candela rating required for strobes when installed on walls in rooms of varying size. When ceiling mounted, the number of strobes may be reduced while continuing to provide equivalent facilitation. Table 2 lists room, ceiling height, and appropriate light intensity for the given space.

Space Allocation for Corridors

Strobes mounted in corridors not greater than 20 feet (6.1m) wide shall be located no more than 15 feet (4.6m) from the end of the corridor with a separation no greater than 100 feet (30.5m) between appliances. They shall be wall mounted in accordance with Table 3.

Space Allocation for Sleeping Rooms

Wall mounted strobes with the top of the strobe greater than 24 inches (61cm) from the ceiling shall be rated 110 cd. Strobes closer to the ceiling than 24 inches (61cm) shall be rated 177 cd. The distance from the strobe to the pillow must not exceed 16 feet.

Table 1

Max. Room Size	Minimum Required Light Output, Candela (CD) Effective Intensity		
	One Light Per Room (CD)	Two Per Room (On Opposite Walls) (CD)	Four Per Room (One per Wall) (CD)
20' x 20'	15	—	—
30' x 30'	30	15	—
40' x 40'	60	30	15
50' x 50'	95	60	30
60' x 60'	135	95	30
70' x 70'	185	110	60
80' x 80'	—	140	60

Note: The bottom of the wall mounted appliance should be not less than 80 inches (203cm) or more than 96 inches (244cm) from the floor.

Table 2

Max. Room Size	Minimum Required Light Output, Candela (CD) Effective Intensity	
	Maximum Ceiling Height (ft.)	One Light (CD)
20' x 20'	10	15
30' x 30'	10	30
40' x 40'	10	60
50' x 50'	10	95
20' x 20'	20	30
30' x 30'	20	45
40' x 40'	20	80
50' x 50'	20	115
20' x 20'	30	55
30' x 30'	30	75

Note: Where ceiling heights exceed 30 ft. (91.4m), visible signaling appliances should be suspended at or below 30 ft. (91.4m) or wall mounted.

Note: The above table is based on locating the visible signaling appliance at the center of the room. Where it is not located at the center of the room, the effective intensity (cd) should be determined by doubling the distance from the appliance to the farthest wall to obtain the max. room size.

Table 3

Corridor Length (ft.)	Min. Number of 15 cd Visible Appliances Required
0-30	1
31-130	2
131-230	3
231-330	4
331-430	5
431-530	6