

DIVISION 16 - ELECTRICAL

Section 16535 - Emergency Lighting

Introduction

Provisions for emergency lighting should take into consideration the requirements for location of emergency exit lights in accordance with the new ADA and the requirements of the NFPA for exit lights.

In general for new buildings it is required that all emergency lighting be supplied through the use of an electric generator. Each floor should have its own emergency panel and all emergency lights should be supplied from that panel.

On existing buildings where an emergency generator exists, all new emergency lights should be connected to that system. On buildings without an emergency generator system utilize 2 hour emergency battery packs in fixtures where required.

Do not wire light fixtures with power from two different emergency power systems.

For corridor emergency/night light circuits consider using florescent fixtures with PL type lamps at either 13 or 26 watt levels or LED.

Emergency lights located in classrooms or labs where a fully lit fixture would cause problems with the capability to darken the room (where a dark room is necessary for the room's operation) shall be switched via a lighted red toggle switch.

Part 1 - General

- Provide submittals on all emergency light fixtures.

Part 2 - Products

- Emergency or exit lights shall be the LED type low power use.
- Clear plexiglass exit signs, if used, shall have factory backings to prevent reading the words backwards.
- Battery packs should use the Nicad type batteries with a minimum of 10 year life.
- Where emergency lights contain battery packs the emergency ballast shall be as manufactured by Iota or approved equal.
- Fluorescent fixtures with 4 ft. lamps shall utilize 1000 lumen battery packs when battery packs are permitted.
- HID Lighting shall not be used for emergency lighting.

Part 3 - Execution

- Where used in classroom situations it is generally considered that all emergency lights should be capable of being turned off via normal light switches. However in case of an emergency or loss of power, and where possible they shall all be energized to illuminate the means of egress. Emergency lights shall be supported by the same criteria as normal light fixtures. Use necessary relay and control circuitry to accomplish restoration of emergency and egress lighting.

End of Section 16535