



## PHOTOLUMINESCENT CODE SUMMARY: REVISION B

### **International Fire Code (IFC)**

#### **Chapter 10 (B) Section 1024 – Luminous Egress Path Markings**

International Fire Code Requirement adopted Jan 1, 2009 establishes the minimum recommended requirement for photoluminescent markings in the stairwells of new and existing high-rise buildings over 75 feet ( generally 5 stories + ) in height. Establishes the recommendation for photoluminescent markings on the steps, handrails, stair landings, egress path obstacles and exit doors of enclosed stairwells. Materials shall comply with UL 1994 or ASTM E 2072 (see below).

#### **ASTM International (ASTM) E 2072**

Establishes the minimum requirement for the illuminating light source (lights) in an enclosed high-rise stairwell and the minimum luminance value of the photoluminescent material in the dark after 10 and 90 minutes of charging by the lights in the stairwell.

#### **Underwriters Laboratories (UL) 1994 – Luminous Egress Path Marking Systems**

Underwriters Lab is an internationally recognized independent product safety certification company. UL 1994 defines the general scope under which it will test and certify products for a Luminous Egress Path Marking System for compliance to specific codes and requirements. That scope includes but is not limited to product construction, product placement, light source requirements and conformance to illumination standards such as ASTM E 2072. A certified UL product can carry the UL certification label on the product and in advertising.

#### **General Services Administration (GSA) – Means of Egress 7.8**

Federal Governments egress requirements for stairwells in the event of fire, blackout or other emergency. Defines requirements for sprinkler systems, stairway pressurization, fire escapes, signs and stair treads. On 8/1/09 it established the requirement for photoluminescent markings on the steps of enclosed stairwells and photoluminescent stair identification signs in all new and existing Federal Government buildings meeting the luminance requirements of ASTM E 2072.

#### **ASTM E 2030-07 and ASTM E 2073-07**

ASTM E 2030-07 is a guide for the recommended use and installation of photoluminescent safety markings but is not a standard or requirement. ASTM E 2073-07 is the standard test method to test luminance of photoluminescent markings.

#### **New York Local Laws – RS 6-1 and RS 6-1A**

The New York City local codes defining the requirements and standards for photoluminescent markings in New York high rise buildings.



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