

Evaluation Report CCMC 13211-R

MASTERFORMAT: 26 53 10

Glo Brite® Photoluminescent Exit Signs

1. Opinion

It is the opinion of the Canadian Construction Materials Centre (CCMC) that “Glo Brite® Photoluminescent Exit Signs” when used as a Photoluminescent Exit Sign in accordance with the conditions and limitations stated in Section 3 of this Report, complies with the National Building Code 2005:

- Clause 1.2.1.1.(1)(a), Division A, using the following acceptable solutions from Division B:
 - 3.4.5.1.(3)(b) Exit Signs
 - 3.2.7.1. Emergency Power for Lighting
 - 9.9.10.3. Required Exit Signs
 - 9.9.10. Signage
 - 9.9.10.4. Exit Direction Signs
 - 9.9.10.5. Visibility of Exit Signs
 - 9.9.10.6. Lettering
 - 9.9.10.7. Illumination
 - 9.9.11.3. Emergency Lighting

This opinion is based on CCMC's evaluation of the technical evidence in Section 4.1 provided by the Report Holder.

2. Description

“Glo Brite® Photoluminescent Exit Signs” are available in both framed and frameless styles. The exit signs have a photoluminescent panel consisting of a rigid PVC panel blended with strontium oxide aluminate photoluminescent pigment that emits light through the absorption of ambient illumination.

The framed exit sign consists of a PVC photoluminescent panel inside a metal or plastic frame that is coated in red. The panel displays the word "Exit" or "Sortie" and has optional directional knockouts. The framed exit sign is available as single- or double-sided and may be ceiling mounted, surface or flag wall mounted.

The frameless exit sign consists of a PVC photoluminescent panel with red opaque letters adhering to the panel surface and spelling the word "Exit" or "Sortie." Opaque directional indicators are optional and may be included on one or both sides of the word "Exit" or "Sortie." The frameless exit sign is surface wall mounted.

3. Conditions and Limitations

CCMC's compliance opinion in Section 1 is bound by the "Glo Brite[®] Photoluminescent Exit Signs" being used in accordance with the conditions and limitations set out below.

- The photoluminescent exit sign shall bear the UL/ULC certification mark.
- The framed exit sign must consist of white or lightly tinted letters on a red background.
- The frameless exit sign must consist of red letters on a contrasting background that is white or lightly tinted.
- The letters must be 150 mm high and have a 19 mm stroke.
- The exit sign must display the word EXIT or SORTIE. The exit sign must be illuminated by an exterior source of energy to charge itself. The minimum illumination on the sign face shall be 54 lux. Normal illumination level in a building is usually above 60 lux.
- The direction of egress in public corridors and passageways shall be indicated with an arrow or pointer indicating the direction of egress.
- The exit signs shall be installed indoors only, and they may not be exposed to direct sunlight, liquid spray or temperatures outside the range of 10°C to 40°C.
- Exit signs with the word EXIT must have a **visible "CAUTION"** marking on their exterior surface as required by the Photoluminescent and Self-Luminous Exit Signs ULC/ORD-C924-02 and indicate that "illumination must be present on the sign face (s) at all times while the building is occupied."
- Exit signs with the word SORTIE must have the following inscription must have a visible "ATTENTION" marking on their exterior surface as required by Photoluminescent and Self-Luminous Exit Signs ULC/ORD-C924-02 and indicate

that “un éclairage sur la face du panneau de signalisation doit être assuré en tout temps lorsque des occupants sont présents dans le bâtiment.”

- Installation of the “Glo Brite® Photoluminescent Exit Signs” shall be in compliance with the “Jessup Manufacturing Company Installation Guide.”
- Clause 3.4.5.1.(3)(b) of the NBC calls for white letters on a red background. It is possible to produce a white photoluminescent panel but that would lower its illuminance. Expert advice indicates that a lightly tinted photoluminescent panel offers the best possible contrast. The product is certified to comply with ULC/ORD-C924-02, which requires observation visibility tests and contrast measurement between the letters and background.

4. Technical Evidence

CCMC's Technical Guide for “Glo Brite® Photoluminescent Exit Signs” sets out the nature of the technical evidence required by CCMC to enable it to evaluate a product as an acceptable or alternative solution in compliance with the NBC 2005. The Report Holder has submitted The “Glo Brite® Photoluminescent Exit Signs” have been found to comply with the requirements of ULC/ORD-C924-02, “Photoluminescent and Self-Luminous Exit Signs.” for CCMC's evaluation. Testing was conducted at independent laboratories recognized by CCMC. The corresponding test results for “Glo Brite® Photoluminescent Exit Signs” are summarized below.

4.1 NBC 2005 Compliance Data for “Glo Brite® Photoluminescent Exit Signs” on which CCMC Based its Opinion in Section 1

4.1.1 Prescriptive Requirements

Complies with prescriptive requirements referenced in the NBC 2005.

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