

**BUILDING MATERIALS EVALUATION COMMISSION  
AUTHORIZATION REPORT**

**DATE OF AUTHORIZATION**  
**BMEC AUTHORIZATION**  
**BMEC APPLICATION**

**November 27, 2003**  
**BMEC # 03-12-291**  
**#A2003-16**

**DATE OF AMENDMENT**

**May 27, 2004**

\* denotes amendment

**JESSUP MANUFACTURING COMPANY  
Glo Brite® Photoluminescent Exit Signs**

**1. Applicant**

Jessup Manufacturing Company  
P.O. Box 366  
Mc Henry, Illinois  
60051  
U.S.A.

Tel: (815) 385-6650  
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**2. Manufacturing Facilities**

Jessup Manufacturing Company  
2815 West Route 120  
Mc Henry, Illinois  
60050  
U.S.A.

**3. Description**

The Glo Brite® Exit Signs (the "Exit Signs") 7000 series, model numbers 7011, 7011-B, 7012-B, 7310, 7210, 7211, 7013, 7013-B, and 7014-B, are Exit Signs that are available in both framed and frameless styles. The Exit Signs have a photoluminescent panel consisting of a rigid Poly Vinyl Chloride (PVC) sheet blended with a strontium oxide photoluminescent pigment that emits light through the absorption of at least 54 lux (5 foot candles) of ambient illumination. The reported legible viewing distance of the Exit Sign is 15.2 m (50 ft).

The framed Exit Sign consists of a photoluminescent placard inside a red powdered coated frame. The frame is provided with the word "EXIT" or "SORTIE" and optional directional indicator knockouts. The framed Exit Sign is available in single or double sided and may be ceiling or wall mounted.

The frameless Exit Sign consists of a photoluminescent background and opaque letters spelling the word "EXIT" or "SORTIE" in red only. Opaque directional indicators are optional and may be included at one or both sides of the exit sign. The substrate material is a semi-rigid PVC and it is mechanically mounted to the surface. The frameless Exit Sign may be ceiling or wall mounted.

#### **4. Authorization Requested**

The applicant sought a Building Materials Evaluation Commission (BMEC) authorization for the Exit Signs, series 7000 as a means of egress identification under Subsection 3.4.5. "Exit Signs", with conditions and limitations, equivalent to the requirements of 1997 Ontario Building Code, as amended and remade from time to time (OBC).

#### **5. Assessment**

Reports and assessments provided by the applicant show that if the Exit Signs are designed, performance tested and installed in accordance with the manufacturer's instructions and limitations and the specific terms and conditions stated in this authorization, the level of performance required by the OBC will be provided.

Reports submitted, and reviewed, but not limited are to:

1. Fire, Life Safety, & Security Institute, Inc , Project number 2003-25, July 17, 2003.
2. Glo Brite® Photo-Luminescent Exit Signs Manufacturer Information, Jessup 2002
3. Glo Brite® Photo-Luminescent Exit Signs Installation Instructions.
4. The International Certification Network Certificate, Quality Management System, ISO 9002-1994, Registration number DE-81368-02.
5. "Photo-Luminescent and Self-Luminous Exit Signs" ULC/ORD-C924-02.
6. CAN/CSA-C860-96 "Performance of Internally Lighted Exit Signs."
7. UL 924 "Emergency Lighting and Power Equipment" Supplement SG - Photo-Luminescent Exit Signs", July 11, 2001.
8. UL Report Project 02SC1174, File E230912, "Photo-Luminescent Exit Sign" Jessup Manufacturing Company, Mc Henry Illinois Copyright 2002.
9. Glo Brite® Photo-Luminescent Exit Signs, UL and ULC Certifications.
10. International Building Code, 2002 Edition.
11. NFPA 101 "Life Safety Code," 2000 Edition.
12. NFPA 1, "Uniform Fire Code," 200 and 2003 Editions.

13. NFPA 5000, "Building Construction and Safety Code," 2003 Edition.
14. ICC ES Legacy Report (ER-6040) "Glo Brite® Photo-Luminescent Exit Signs", Reissued March 1, 2003.
15. Letter of Approval from the Office of the Fire Marshall in the State of Indiana, April 19, 2002.
16. ULC correspondence re. File E230912, dated September 23, 2003.
17. Material Safety Data Sheet, LOC 20126/7/8.
18. ULC correspondence re. BMEC A2003-16, dated November 18, 2003.

## **6. Authorization**

The Exit Signs series 7000, model number 7011, 7011-B, 7012-B, 7310, 7210, 7211, 7013, 7013-B, and 7014-B are authorized for use as a means of egress identification under Subsection 3.4.5. "Exit Signs", all other requirements pertaining to the installation are subject to the requirements of the OBC, and subject to the following terms and conditions:

### **A. Specific Terms & Conditions**

1. This Authorization is valid only for Exit Signs model numbers 7011, 7011-B, 7012-B, 7310, 7210, 7211, 7013, 7013-B, and 7014-B .
2. Sortie Signs, model numbers 7211, 7013, 7013-B, and 7014-B, shall only be installed adjacent to Exit Signs, model numbers 7011, 7011-B, 7012-B, 7310, and 7210.
3. The Exit Signs are not required to be provided with an emergency power supply as described in Sentence 3.2.7.4.(1). of the OBC.
- \* 4. The Exit Signs require a minimum of 54 lux (5 ft candles) of constant and continuous external non-filtered fluorescence, mercury vapour or metal halide lighting to illuminate the face(s) of the signs at all times.
5. The Exit Signs may only be used in buildings that are not required to have an emergency power supply greater than 1 h, for emergency lighting as described in the Article 3.2.7.4 of the OBC.
6. The Exit Signs shall be located so that the legible viewing distance of 15.2 m (50 ft) is not exceeded.

7. The Exit Signs shall have the following markings:
  - a. Name of the manufacturer,
  - b. UL/ULC 924,
  - c. Expiration date,
  - d. Model number,
  - e. Legible viewing distance, and
  - f. "CAUTION: minimum 5 foot candle external non-filtered florescent, mercury vapour or metal halide illumination must be continuously present on the face(s) of this sign."
8. The Exit Signs shall be installed as per the manufacturer's instructions.
9. The Exit Signs are authorized for interior applications only.
10. The Exit Signs shall not be exposed to direct sunlight.
11. The Exit Signs shall not be exposed to temperatures outside the range of 10<sup>0</sup> to 40<sup>0</sup> C (50<sup>0</sup> to 104<sup>0</sup> F).
12. The Exit Signs shall be cleaned with a damp cloth or as otherwise recommended by the manufacturer.

**B. General Conditions**

1. The use of the Exit Signs as described in Specific Terms and Conditions 1. must comply with the *Building Code Act, 1992* as amended or re-enacted from time to time (BCA) and except as specifically authorized herein, with the OBC.
2. A copy of this Authorization shall accompany each application for a building permit and shall be maintained on the site of the construction with the building permit.
3. The Applicant named in Part 1 hereof shall promptly notify the BMEC of:
  - (a) the failure of the Applicant, or of the material, system or building design that is the subject matter of this Authorization, to comply with any of the terms and conditions set out in A. above; or

- (b) the occurrence of any of the events described in Conditions B. 4. (a) and (b) (ii) below.
4. The BMEC may amend or revoke this Authorization where it determines that:
- (a) any change has been made to:
    - i. the material, system or building design that is the subject matter of this Authorization;
    - ii. the address of the applicant specified in Part 1 of this Authorization; or,
    - iii. the ownership of the applicant specified in Part 1 of this Authorization.
  - (b) the use of the material, system or building design authorized herein;
    - i. does not comply with the *BCA* or any relevant legislation as they may be amended or re-enacted from time to time; or
    - ii. provides an unsatisfactory level of performance, in situ.
  - (c) the Applicant, or the material, system or building design that is the subject matter of this Authorization, has failed to comply with any of the terms and conditions set out in this Authorization; or
  - (d) any OBC provision relevant to this authorization has been amended or remade.
5. Where the BMEC receives additional information concerning the material, system or building design authorized herein, the BMEC may review this Authorization and the BMEC may after the review amend or revoke this Authorization as in the opinion of the BMEC may be necessary.

Dated at Toronto on this 27<sup>th</sup> day of May 2004.

**BUILDING MATERIALS EVALUATION COMMISSION**

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per: Rashmi Nathwani, Chair