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GA

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GA 480.3-2004

**Rules for testing of fire safety signs -- Part 3: Phosphorescent
fire safety signs**

消防安全标志通用技术条件 第3部分：蓄光消防安全标志

(English Translation)

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Foreword

Chapters 4, 5, 7, and 8 of this part of GA 480 are mandatory, and the rest are recommended.

GA 480 "General Technical Conditions for Fire Safety Signs" is GB 13495 "Fire Safety Sign" and GB 15630 "Fire Safety Signs" the supporting standards of the requirements, the corresponding technical requirements and test methods for fire safety sign products, as a production and market Technical regulations for management.

According to the current common types of fire safety sign products, the GA 480 is divided into the following separate parts.

- Part 1. General requirements and test methods;
- Part 2. Conventional fire safety signs;
- Part 3. Light-storing fire safety signs;
- Part 4. Retroreflective fire safety signs;
- Part 5. Fluorescent fire safety signs;
- Part 6. Enamel fire safety signs;
- Part 7. Internal lighting fire safety signs;

This part is the third part of GA 480. This part is aimed at the common background of the market, which is a light-storing color material, and the symbol is a conventional color material.

Light-storing fire safety signs in geometric size, color, illuminance,, weather resistance, color material adhesion, corrosion resistance, water resistance, impact resistance Technical requirements and test methods for sexuality, flammability and radioactivity, and

requirements for inspection rules, packaging, transportation, storage, etc.

For light-storing products whose base material is enamel or whose overall mark (substrate and color material) is a ceramic product, all parties concerned should discuss this part.

And the applicability of the relevant provisions in other parts of the GA 480.

In order to adapt to the development of light-storing materials and reduce the cost of use, this section requires suppliers to announce the excitation illuminance and luminescence time of their products.

These two key indicators must be indicated in the inspection report issued by the inspection agency. When using this product, all parties concerned should fully guarantee the installation place.

The illuminance value of the marking surface and the required marking time should not be lower than these two key indicators.

For some products with their own illumination source (the illumination source has no emergency function), this part requires the supplier to announce its external illumination source pair.

The nominal illuminance value of the surface of the mark shall be indicated in the inspection report issued by the inspection agency. For products with internal lighting Product, this section refers to GB 15630-1995 "Fire Safety Signage Requirements" 6.10.4.2 proposed brightness requirements. In actual use, when inspecting and repairing the product, all parties concerned shall fully guarantee that the minimum illumination value of the external illumination source used on the surface of the mark is not lower than the nominal photo.

Degree; the brightness of the internal illumination source is not lower than the brightness of the test sample, and the relevant indicators should also meet the requirements of this part of GA 480.

According to the luminescence mechanism, "light storage" may also be referred to as "photoluminescence" or "storage self-luminescence".

This part is proposed by the first sub-technical committee of the National Fire Protection Standardization Technical Committee.

This part is under the jurisdiction of the first sub-technical committee of the National Fire Protection Standardization Technical Committee.

This section is responsible for drafting the unit. Tianjin Fire Research Institute of the Ministry of Public Security.

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1 Scope

This part of GA 480 specifies the technical requirements, test methods and inspection rules for light-storing fire safety sign products, etc.

A luminaire fire safety sign product that expresses fire safety information.

2 Normative references

The terms in the following documents become the terms of this section by reference to this part of GA 480. For dated references, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, an agreement is encouraged under this section.

The parties are studying whether the latest version of these documents can be used. For undated references, the latest edition applies to this section.

GB/T 1766-1995 Rating method for aging of paints and varnishes [neq ISO 4628. 1980 (all parts)] GB 2893 security color (GB 2893-2001, neq ISO 3864. 1984) GB/T 10111 Method for random sampling using random number dice GB 13495-1992 Fire safety signs (neq ISO 6309:1987) GB 14778 Safety Color General Rules General technical requirements for fire safety signs - Part 1 . General requirements and test methods

3 Terms and definitions

The following terms and definitions established by GA 480.1-2004 apply to this part of GA 480.

A fire safety sign made by printing, spraying or using a light-storing color film on a substrate. The surface of the light-storing material can be sucked the energy of the illuminating light can emit visible light when the illuminance of the surface is lower than a certain value.

4.1 Code

The classification code for the conventional fire safety sign is. XG.

4.2 How to prepare the product model

The product model of the light-storing fire safety sign shall be prepared in the form of Figure 1.