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Graphical symbols - Terms

图形符号 术语

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Graphical symbols - Terms

1 Scope

This standard defines the terms and definitions on the design and setting of graphical symbols, signs, public information guidance systems, safety information identification systems, guidance system; establishes a conceptual system in the field of graphical symbols (see Appendix A for conceptual system diagrams).

This standard applies to related fields such as graphical symbols and guidance systems.

2 Graphical symbols

2.1 Symbols

2.1.1

Symbol

A visual image with simplified features that express a certain thing or concept.

2.1.2

Graphical symbol

A **symbol (2.1.1)** which uses **graphics (2.2.1)** as the main feature, the transmission of information of which does not depend on language.

2.1.3

Letter symbol

Text code

Symbols (2.1.1) formed by letters, numbers, Chinese characters, etc. or their combination.

The purpose or function of the **referent (2.6.2)** to be represented by the **graphical symbol (2.1.2)**.

2.2.7.1

Excluded function

The **functions (2.2.7)** of **referents (2.6.2)** or **related referents (2.6.2.1)** that are not represented by **graphical symbols (2.1.2)**.

2.2.8

Negation

A method of expressing the opposite of affirmation or denying the existence of specific things.

2.2.9

Symbol family

A group of **graphical symbols (2.1.2)** that use graphic features with specific **meanings (2.2.5)** to represent common concepts.

Note: A group of symbols which use the graphs "scalpel and forceps" to represent the concept containing "surgery" form a symbol family.

2.3 Classification

2.3.1

Common symbol

Graphical symbols (2.1.2) applicable to multiple fields, professions or commonly used.

2.3.2

Special symbol

Graphical symbols (2.1.2) which are only applicable to a certain field, profession or used specifically for a certain need.

2.3.3

Detailed symbol

Graphical symbols (2.1.2) that represent details of the **function (2.2.7)**,

2.4.1.1

Symbols for diagram

Graphical symbols (2.4.1) for technical product documents that indicate the relationship between the various components of a system or equipment in a simplified diagram.

2.4.1.2

Symbols for indicating

Graphical symbols (2.4.1) for technical product documents that indicate geometric characteristics (such as size, distance, angle, shape, position, orientation, etc.) and manufacturing processes involved in the entire process of product design, manufacturing, measurement and quality assurance.

2.4.2

Graphical symbols for use on equipment

The **graphical symbols (2.1.2)** which are used in various equipment for operating instructions or displaying their functions and working status.

2.4.2.1

Display symbol

Graphical symbols (2.4.2) for the equipment to show the function or working status of the equipment.

2.4.2.2

Control symbol

Graphical symbols (2.4.2) for equipment which are used as operating instructions.

2.4.2.3

Icon

Graphical symbols for interactive devices (2.4.2) presented on the device screen to represent computer system referents and/or application functions.

Note: The icons can be divided into static icons, interactive icons that change according to user input, dynamic icons that change according to device status.

Graphical symbol (2.1.2) design drawing as drawn on the design template in accordance with the **graphical symbol (2.1.2)** representation rule and used as a reference or for copying.

Note: The design templates of graphical symbols for technical product documents, graphical symbols for equipment, graphical symbols used on signs are basic grid, basic pattern, basic model, respectively.

2.5.3.2

Basic line width

The width of the most significant part of the line in the **original symbol (2.5.3.1)** which is used to draw the **graphical symbol for the equipment (2.4.2)**.

Note: The basic line width is 2 mm or 4 mm.

2.5.3.3

Corner marking

Line segments perpendicular to each other at the four corners along the outer edge of the **graphical symbol (2.1.2)**.

Note: Refer to Figure 2 for the graphical symbol corner marking for equipment; refer to Figure 4 for the corner marking for public information graphical symbol.

2.5.3.4

Symbol area

The square area defined by the **corner marking (2.5.3.3)**.

2.5.3.5

Basic size

α

The side length of the **symbol area (2.5.3.4)**.

Note: The reference size is the basic size for the design of public information guidance elements, as shown in Figure 7.

Critical detail

Significant detail

Symbol details (2.5.4.3) which are necessary for the understanding of **graphical symbols (2.1.2)** or the completeness of **graphical symbols (2.1.2)**.

2.5.4.5

Negation element

Symbol elements (2.5.4.1) which **negatives (2.2.8)** all or part **meanings (2.2.5)** of the **graphical symbols (2.1.2)**.

Note: Negation elements usually include two forms of slash and cross.

2.6 Testing

2.6.1

Respondent

The person who reacted during the program test.

2.6.2

Referent

The concept or thing to be represented by a **graphical symbol (2.1.2)**.

2.6.2.1

Related referent

Referents (2.6.2) that have related or similar **functions (2.2.7)** in the same **symbol (2.1.1)** system.

Note: For example, "Squash" and "Tennis".

2.6.2.2

Negation of a referent

By adding **negation elements (2.5.4.5)** to the **graphical symbols (2.1.2)** to negate all or part of the **meaning (2.2.5)** of the **graphical symbols (2.1.2)**.

2.6.3

Partial information sign

The **sign (3.1.1)** whose information only relates to the specific locations, equipment or components.

Note: For example, the "beware of electric shock" sign set on electrical equipment indicates that the warning information of beware of electric shock is only valid for the equipment.

3.2.13

Internally illuminated sign

Sign (3.1.1) which is made of transparent or translucent materials, displayed through the internal or rear light source of the **sign carrier (3.3.1)**.

3.2.14

Phosphorescent sign

The **sign (3.1.1)** which uses phosphor as a coating, which can continue to emit light after removing the excitation energy.

Note: According to the luminescence mechanism, phosphorescent safety signs are also called phosphorescent safety signs, photoluminescence safety signs.

3.2.15

Retroreflective sign

The **sign (3.1.1)** which uses retroreflective materials (materials whose reflected light is close to the opposite direction of the incident light) as the base material.

3.3 Carrier

3.3.1

Sign carrier

Materials that carry and display the contents of the **sign (3.1.1)**.

3.3.1.1

Plate

A **sign carrier (3.3.1)** made of rigid material.

chromaticity observer as well as the brightness factor or brightness.

3.4.1.6

Contrast color

A color which contrasts sharply with the **safety color (3.4.1.5)** to make it more eye-catching.

4 Public information guidance system

4.1 Basic concepts

4.1.1

Public information guidance system

A guidance system composed of public information **guidance elements (4.1.3)** to guide people to conduct orderly activities in public places.

4.1.2

Public information sign

The **signs (3.1.1)** that convey information such as public places, **public facilities (4.3.1)** and **service functions (4.3.4)**.

4.1.3

Guidance element

The smallest component of a guidance system that has a specific function.

4.2 Guidance elements

4.2.1

Location sign

The **sign (3.1.1)** which is composed of **graphical signs (3.2.1)** and/or letter [**letter signs (3.2.2)**], to indicate the location of **service functions (4.3.4)** or **public facilities (4.3.1)**.

4.2.2

Direction sign

functions (4.3.4) or public facilities (4.3.1).

Note: This term also applies to street guidance maps.

4.2.4.5

Overview plan

A schematic diagram to help the observer get an overview of the location of the area shown in the **main body (4.2.4.4)** in the overall area of the planned guidance.

Note: This term also applies to street guidance maps.

4.2.5

Street guidance map

A simplified map which provides the main physical geographic information as well as the location distribution information and guidance information of **public facilities (4.3.1)** in the block.

4.2.6

Portable printing matter

Guidance information that is convenient for users to carry and consult at any time.

4.2.7

Distribution map

A schematic diagram which provides the geographic distribution location information of a certain type of **public facility (4.3.1)** or **service facility (4.3.2)**.

4.2.8

Path map

A schematic diagram which provides the path information from a specific starting point to the target.

Note: For example, a tour path map.

4.2.9

Route map

Traffic facilities

Public facilities (4.3.1) that provide transportation services for public travel.

Note: Such as bus and tram stations, railway passenger stations, etc.

4.3.4

Service function

The service content provided by **public facilities (4.3.1)** for the public.

Note: Such as shopping services, medical services, etc.

5 Safety information identification system

5.1 Basic concepts

5.1.1

Safety information identification system

A sign system that transmits safety information formed by a variety of system elements in public places or work areas.

5.1.2

Emergency guidance system

A guidance system composed of **emergency guidance elements (4.1.3)** that guides people to evacuate from dangerous areas along a **designated escape route (5.3.8)** in an emergency.

Note: In the emergency guidance system, the guidance elements mainly include evacuation plan, safety signs, safety marks, etc.

5.2 Safety sign system

5.2.1

Safety sign

A **sign (3.1.1)** which is formed by the **graphical symbols (2.1.2)** in the geometric shape formed by the **background color (3.4.1.3)** formed by the **safety color (3.4.1.5)** and/or the **enclosure (3.4.1.2)** to convey specific safety information.

A plan that provides **escape routes (5.3.8)** and emergency facilities and other information.

5.3.2

Maintained safety sign

During normal or emergency operation, **the sign (3.1.1)** whose internal lamps are always energized.

5.3.3

Non-maintained safety sign

The sign (3.1.1) whose internal luminaire is only activated when the power supply for normal lighting fails.

5.3.4

Emergency exit

The door or passage in the **escape route (5.3.8)** leading to a safe place.

5.3.4.1

Final exit

The final **emergency exit (5.3.4)** which connects the **escape route (5.3.8)** and the safe place.

5.3.5

Dead end corridor

Corridors with only one-way **escape routes (5.3.8)**.

5.3.6

Assembly area

A designated safety area for the concentration of evacuees outside the hazardous area.

5.3.7

Emergency shelter

A safety place with emergency life **service facilities (4.3.2)** for emergency or temporary refuge nearby and where the refuge can live temporarily.

6.1.3

Conspicuity

The characteristics of the **signs (3.1.1)/guidance elements (4.1.3)** in the field of vision which are more attractive than their environmental background.

Note: This term also applies to the guidance system's setting principle (see 6.2).

6.1.4

Uniformity

The characteristics of the **visual elements (3.4.1)** used in the design of the <guidance system> **guidance element (4.1.3)** and the setting method and setting location used by the setting being similar.

Note: This term also applies to the guidance system's setting principle (see 6.2).

6.1.5

Coordination

The characteristics of **visual elements (3.4.1)** as cooperated with each other to realize the overall effectiveness of the **guidance element (4.1.3)**, or the characteristics of **guidance elements (4.1.3)** to cooperate with each other or the environment to realize the overall function of the guidance system.

Note: This term also applies to the guidance system's setting principle (see 6.2).

6.2 Principles of guidance system setting

6.2.1

Systematicness

The characteristics of various **guidance elements (4.1.3)** in the guidance system for the continuous transmission of information and the smooth link and conversion of information between the guidance systems to achieve the guidance purpose.

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