New York City RS 6.1
Photoluminescent Exit Path Markings
2.1.1 Door Signs

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<td>Fig. 1 - Door Mounted</td>
<td>The top of the signs shall be no higher than 18&quot; above the finished floor. Signs shall be installed either on the door itself, or on the wall surface directly adjacent to the door, or both:</td>
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<td><strong>2.1.1.1 Door Mounted Option (fig. 1).</strong></td>
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<td>The vertical centerline of the sign shall be centered with the door, or shall be in that half of the door, either the right or left, that contains the latch. In case of double-doors, both doors shall be marked and the signs shall be centered with the doors. For door-mounted signs, arrows may be omitted.</td>
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<td><strong>2.1.1.2 Wall-mounted option (fig. 2).</strong></td>
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<td>Signs shall be mounted on the wall surface directly adjacent to the latch-side of the door, no more than 6&quot; from the door to the edge of the sign. In case of double-doors, signs shall be placed on the wall surface directly adjacent to the hinge-sides of both doors. Where the wall surface directly adjacent to the latch-side is too narrow to accommodate the sign, the sign may be placed on the adjacent perpendicular wall. For wall-mounted signs, arrows are mandatory.</td>
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Fig. 2 - Wall Mounted

2.2.1 Steps

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<td>Fig. 3 - Horizontal Leading Edge of Step</td>
<td><strong>1) Step markings (fig. 3).</strong> The entire horizontal leading edge of each step shall be marked with a solid and continuous stripe of photoluminescent material.</td>
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<td><strong>2.2.1.1 Width:</strong> The width of the strips shall be: Max 2&quot;, Min 1&quot;</td>
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<td><strong>2.2.1.2 Length:</strong> The stripes shall extend for the full length of the step.</td>
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<td></td>
<td><strong>2.2.1.3 Placement:</strong> The leading edge of the stripe shall be: Max 1/2&quot;, Min 0&quot; from the leading edge of the step.</td>
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<td></td>
<td><strong>2.2.1.4 Overlap:</strong> the stripe shall not overlap the leading edge of the step by more than 1/2&quot; down the vertical face of the step.</td>
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In lieu of marking the full horizontal leading edge, comply with one of:

**1) Step markings (fig. 3).** The entire horizontal leading edge of each step shall be marked with a solid and continuous stripe of photoluminescent material. |

|                      | 1.1 Width: Same |
|                      | 1.2 Length: Shall extend to within 2" of both sides of the steps. |
|                      | 1.3 Placement: The leading edge of the stripe shall be: Max 1" Min 0" from the leading edge of the step. |
|                      | **2.2.1.4 Overlap:** Same |

OR
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<td><strong>Fig. 4 - Side Edge Step Markers</strong></td>
<td>2) <strong>Side Edge Markings</strong>. Not permitted.</td>
<td>2) <strong>Side edge markings</strong> (fig. 4). Side edge markings on both horizontal sides of each step that provide returns extending along the leading edge. Shall be solid and continuous stripes of photoluminescent material: 2.1 Width of side edge markings. Same as 2.2.1.1 2.2 Placement of side edge markings. No further than 2” from both sides of steps. Shall extend to within $2\frac{1}{4}$ “ of the back of each step and to within 1” of the leading edge of each step. 2.3 Width of returns. Shall also comply with 2.2.1.1 but are not required to be the same width as the side edge markings. 2.4 Placement of returns. Shall extend from the side edge marking, parallel with the leading edge of the step, for a minimum distance of 2”. Shall extend to within 1” of the leading edge of each step. 2.5 Overlap. The side edge markings including returns shall not overlap the face of the leading edge of the step by more than $\frac{1}{2}$ “ down the vertical face of the step.</td>
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<tr>
<td><strong>Fig. 5 - Leading Edge of Landings</strong></td>
<td><strong>2.2 Landings (leading edge)</strong> The leading edge of all landings shall be marked in a consistent and uniform manner throughout the same exit. Such markings shall comprise stripes following the same requirements as for steps in 2.2.1, except that: 1) the stripe shall be the same length as and consistent with the stripes on the steps, or may extend the full length of the leading edge of the landing; and 2) the leading edge of each landing shall be marked regardless of the age of the building.</td>
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<td><strong>Fig. 6 - Handrails</strong></td>
<td><strong>2.2.3 Handrails</strong> All handrails and handrail extensions shall be marked with a solid and continuous stripe of photoluminescent material. 2.2.3.1 Width. Shall be Min. 1” 2.2.3.2 Placement. Shall be placed at least on the top surface of the handrail for the entire length of any handrails including handrail extensions, and newel post caps. 2.2.3.3 Continuity. Where handrails or handrail extensions bend or turn corners, the stripe shall be as continuous as practicable with no more than a 4” gap.</td>
<td><strong>Handrails are not required to be marked.</strong></td>
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2.2.4 Floor perimeter demarcation lines

**Fig. 7 - Perimeter Demarcation Lines**

Perimeter demarcation lines are intended to outline the egress path by providing low location photoluminescent lines on both sides of the path.

- **Width**: Min. 1", Max. 2"
- **Continuity**: The continuity of the demarcation lines may be interrupted to accommodate obstructions such as conduits, moldings, corners or bends, not to exceed 4". Shall be uniform and consistent throughout the same exit.

### 2.2.4.1 Floor-mounted option (fig. 7)

Shall be placed as close as practicable to the wall, and shall extend to within 2" of the landings' leading edge markings. Where an obstruction (such as a standpipe) is located within the egress path, the demarcation line may, at the option of the owner, extend across the floor so that the obstruction is outside of the outlined area (see fig. 8).

Demarcation lines on floors shall continue across the floor in front of all doors, except in front of those doors marked with door frame markings in accordance with 2.2.9.3 (see figs. 13, 14).

**Fig. 8 - Perimeter Demarcation Lines**

### 2.2.4.2 Wall Mounted Option (fig. 9)

Shall be placed with the bottom edge no more than 4" above the finished floor. At the top or bottom of stairs, demarcation lines shall drop vertically to the floor within 2" of the step or landing edge.

Demarcation lines on walls shall transition vertically to the floor and then extend across the floor where a line on the floor is the only practical method of outlining the path, for instance where obstructions or dead ends are to be outside of the outlined egress areas.

Demarcation lines on walls shall continue across the face of all doors, or may transition to the floor and extend across the floor in front of such doors (see fig. 10), except in front of those doors marked with door frame markings in accordance with 2.2.9.3.

**Fig. 9 - Perimeter Demarcation Lines**

**Fig. 10 - Perimeter Demarcation Lines**

**Exceptions**: Perimeter demarcation lines are not required:

1. on the sides of steps; and
2. where an area is selected not to be outlined because it is not part of the egress path, for example and obstruction or dead end.
### 2.2.5 Obstacles

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<td>Obstacles at or below 6'-6&quot; (1981mm) in height and projecting more than 4&quot; (120mm) into the egress path shall be outlined with markings. Width: Min 1&quot; Pattern: Alternating equal bands, of photoluminescent material and black, with alternating bands no more than 2&quot; thick and angled at 45 degrees. Examples of such obstacles include standpipes, hose cabinets, wall projections, and restricted height areas (see fig. 8).</td>
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### 2.2.6 Directional Signage upon entering an exit (see fig. 11)

**Fig. 11 - Directional Signage**

Photoluminescent directional signs shall be placed in the stairwell or exit at every entrance thereto such that they are visible upon opening the door into the stairwell to exit (i.e. the opened door shall not obscure the sign). Such directional sign shall include an arrow indicating the direction of travel. The signs shall be located such that their top edge is no more than 18" above the finished floor.

Appplies only to below grade stories

### 2.2.7 Directional Signage at transfer levels and where egress direction is not clear (see fig. 11)

**Fig. 11 - Directional Signage (cont’d)**

Photoluminescent directional signs installed at heights indicated in 2.2.6 shall be placed on the wall: 1) at transfer levels; and 2) wherever egress direction is not clear. These directional signs shall include arrows indicating the direction of travel. Examples of placement include: at turns along horizontal extensions from vertical to horizontal direction; at a “T” intersection; etc. Arrows must be min 2$\frac{3}{4}$ “ square, Running Man must be min. 4” square.
### 2.2.8 “Not An Exit” sign (see fig. 12)

Photoluminescent signs shall be placed on doors along the egress path that lead to dead ends (mechanical rooms, storage closets, etc.) Such signs shall contain sans serif lettering at least 1” high reading “NOT AN EXIT”.

**Exempt from this requirement.**

### Definitions:

#### Intermediate exit door (see fig. 13).
When travelling in the egress direction, doors that lead from a vertical exit, horizontal extension in a vertical exit, horizontal exit, supplemental vertical exit, or exit passageway, but do not lead directly to the exterior or to a street level lobby are intermediate exit doors.

#### Final exit door (see fig. 14).
Doors leading to the exterior or a street level lobby are final exit doors.

### Illustrative Figures

<table>
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<tr>
<th>Fig. 13 - Intermediate Exit Door</th>
<th>Fig. 14 - Final Exit Door</th>
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<tr>
<td><img src="image" alt="Intermediate Exit Door" /></td>
<td><img src="image" alt="Final Exit Door" /></td>
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- **Existing illuminated exit sign as may be required by building code.**
- **Photoluminescent stripe as per 2.2.4.3 1’ min. 2’ max.**
- **Door hardware marking as per 2.2.4.2**
- **Door sign as per 2.2.4.1**
- **No perimeter floor demarcation line at door.**
### 2.2.9.1 Door Signs

A photoluminescent wall-mounted door sign complying with 2.1.1.2 shall be mounted on the wall adjacent to all intermediate and final exit doors. At the final exit door, such sign shall contain supplemental directional text in sans serif letters one-half as high as the word EXIT. The word EXIT must be 4” min.

Examples of such texts are “FINAL EXIT”, or “EXIT THROUGH LOBBY” or “EXIT TO STREET”, or “EXIT TO CHAMBERS STREET”, etc (see fig. 15)

![Fig. 15 - Door Signs](image1)

### 2.2.9.2 Door Hardware markings

Door hardware of all intermediate and final exit doors shall be marked with no less than 16” of photoluminescent material. This marking shall be located behind, immediately adjacent to, or on the door handle. Where a panic bar is installed, such material shall be no less than 1” wide for the entire length of the actuating bar or touchpad. All hardware markings covered by 2.2.9.2 may include ANSI Z535.1 safety green graphics such as arrows indicating door handle turning directions, E001 or E002 emergency egress symbols as per ISO 7010, the word “EXIT”, the word “PUSH”, and similar egress-related symbols provided the minimum 16” photoluminescent material is maintained.

![Door Hardware markings](image2)

### 2.2.9.3 Door Frame markings

The top and sides of the door frame of all intermediate and final exit doors shall be marked with a solid and continuous 1” to 2” wide stripe of photoluminescent material. Gaps are permitted in the continuity of door frame markings where a line is fitted into a corner or bend, but shall be as small as practicable and in no case greater than 1”.

Where the door molding does not provide enough flat surface on which to locate the stripe, the stripes may be located on the wall surrounding the frame.

The dimensions, distances and locations fo the required markings shall be consistent and uniform on all doors on the route to the exterior of the building.

![Door Frame markings](image3)
Unless otherwise specified, all photoluminescent door signs and directional signs referenced herein (see figs. 11, 15, 16, 17):

1. may be either positive or negative image;
2. shall be made with the non-photoluminescent portions of the signs in safety green as per ANSI Z535.1-2002, American National Standard for Safety Color Code;
3. shall include three components:
   3.1 the word EXIT printed in sans serif letters at least 4” high with strokes no less than \( \frac{1}{2} \) “;
   3.2 an emergency exit symbol at least 4” high, complying with E001 or E002 as per ISO 7010 (2003-10-01), Graphical Symbols - Safety Colours and Safety Signs - Safety Signs Used in Workplaces and Public Areas; and
   3.3 an arrow at least 2\( \frac{3}{4} \) “ high, complying with E005 or E006 as per ISO 7010.

EXCEPTIONS:
1. Arrows are not mandatory on door-mounted signs required by 2.1.1.12.
2. The word EXIT is not mandatory on directional signs required by 2.2.6 and 2.2.7.
3. Additional descriptive text is permitted, provided such words are in sans serif letters and, where the word EXIT or emergency exit symbol is required on such sign, such descriptive text is no more than one-half as high as the word EXIT or the emergency exit symbol.