

# DIN ISO 16069:2019-04 (E)

## Graphical symbols - Safety signs - Safety way guidance systems (SWGS) (ISO 16069:2017)

---

<b>Contents</b>		<b>Page</b>
<b>National foreword</b> .....		<b>4</b>
<b>National Annex NA (informative) Bibliography</b> .....		<b>5</b>
<b>Foreword</b> .....		<b>6</b>
<b>Introduction</b> .....		<b>7</b>
<b>1 Scope</b> .....		<b>8</b>
<b>2 Normative references</b> .....		<b>8</b>
<b>3 Terms and definitions</b> .....		<b>9</b>
<b>4 Planning a SWGS</b> .....		<b>11</b>
<b>5 Basic principles for the design of SWGS</b> .....		<b>12</b>
5.1 Design objectives .....		12
5.1.1 General .....		12
5.1.2 Continuity .....		12
5.1.3 Visual reinforcement .....		13
5.1.4 Location .....		13
5.1.5 Destination .....		13
5.1.6 Avoidance of confusion at decision points .....		13
5.1.7 Dead ends .....		13
5.1.8 Minimization of potentially competing or confusing information in the visual field on escape routes .....		13
5.1.9 Multi-level facilities .....		14
5.2 Guidance lines .....		14
5.3 Escape route signs .....		14
5.3.1 Design .....		14
5.3.2 Consistency of use .....		16
5.3.3 Installed position .....		16
5.4 Signs, markings and plans .....		17
5.4.1 Marking of stairs, ramps and ladders .....		17
5.4.2 Marking of emergency exits .....		17
5.4.3 Marking of fire-fighting, emergency and safety equipment and alarm-initiating devices .....		17
5.4.4 Marking of hazards along the escape route .....		17
5.4.5 Marking of assembly areas and safe areas at the end of the escape route .....		18
5.4.6 Marking of escape routes for the specific use of disabled persons .....		18
5.4.7 Escape and evacuation plan signs .....		18
5.4.8 Access platforms .....		18
<b>6 Specific requirements for electrically powered components</b> .....		<b>18</b>
6.1 General .....		18
6.2 Requirements for guidance lines and escape route signs .....		19
6.2.1 Escape route sign luminaire .....		19
6.2.2 Guidance lines made by point sources and accompanying escape route signs .....		19
6.2.3 Guidance lines made by line sources and accompanying escape route signs .....		19
6.2.4 Guidance lines made of discrete luminaires .....		19

6.3	Marking.....	19
6.3.1	Marking of stairs and ramps.....	19
6.3.2	Marking of emergency exits.....	20
6.3.3	Marking of hazards along the escape route.....	20
6.4	Emergency power supply and operating conditions for the electrical components.....	20
6.5	Documentation and logbook.....	20
6.6	Inspection and maintenance.....	21
<b>7</b>	<b>Specific requirements for phosphorescent components.....</b>	<b>21</b>
7.1	General.....	21
7.2	Luminance requirements for phosphorescent components of a SWGS.....	21
7.2.1	Minimum luminance properties.....	21
7.2.2	Minimum luminance required in installed position.....	22
7.3	Guidance lines and escape route signs and their location within a SWGS.....	22
7.3.1	Guidance lines.....	22
7.3.2	Escape route signs.....	22
7.4	Marking.....	23
7.4.1	Marking of stairs, ramps and ladders.....	23
7.4.2	Marking of door frames of emergency exits.....	23
7.4.3	Marking of hazards along the route.....	23
7.4.4	Marking of fire-fighting, emergency and safety equipment along the escape route.....	23
7.4.5	Floor numbering and stairwell identification for multi-storey building.....	23
7.5	Illumination requirements.....	24
7.6	Verification of illumination and luminance.....	24
7.7	Documentation and logbook.....	24
7.8	Inspection and maintenance.....	24
<b>Annex A (normative) Measurement of photopic luminance of phosphorescent components in the laboratory.....</b>		<b>26</b>
<b>Annex B (normative) On-site measurement of luminance performance of phosphorescent components of a SWGS.....</b>		<b>32</b>
<b>Annex C (informative) Visibility and identifiability of phosphorescent safety way guidance components and their sizing and location.....</b>		<b>36</b>
<b>Bibliography.....</b>		<b>46</b>