
**Ships and marine technology — Design,
location and use of shipboard safety
signs, safety-related signs, safety notices
and safety markings —**

Part 2:
Catalogue

iTeh STANDARD PREVIEW

(standards) (1) (2)

*Navires et technologie maritime — Conception, emplacement et
utilisation des signaux de sécurité, signaux relatifs à la sécurité, notes
de sécurité et marquages de sécurité à bord des navires —*

ISO 24409-2:2014
Partie 2: Catalogue

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 1, *Lifesaving and fire protection*.

ISO 24409 consists of the following parts, under the general title *Ships and marine technology — Design, location and use of shipboard safety signs, safety-related signs, safety notices and safety markings*:

- Part 1: *Design principles*
- Part 2: *Catalogue*
- Part 3: *Code of practice*

Introduction

The growth of international travel by ship has created a need to provide people travelling and working on-board ships with signs and associated systems that communicate consistent and effective safety information. This part of ISO 24409 specifies a system of safety and safety-related signs on ships and other marine installations that is generally consistent with standardized signs with which many will have gained familiarity in other applications.

As such, this part of ISO 24409 clarifies and supplements existing requirements set out in SOLAS regulations II-2/13.3.2.5.1, III/9.2.3, III/11.5, III/20.10, and ISO 17631. However, it is directly applicable to shipboard safety and safety-related signs only, and does not deal with graphical symbols to be used on shipboard plans or documentation.

This part of ISO 24409 contains a catalogue of signs developed in accordance with the general design principles specified in Part 1, for application on ships in accordance with the code of practice in Part 3.

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Ships and marine technology — Design, location and use of shipboard safety signs, safety-related signs, safety notices and safety markings — Part 2: Catalogue

IMPORTANT — The colours represented in the electronic file of this part of ISO 24409 can be neither viewed on screen nor printed as true representations. Although the copies of this part of ISO 24409 printed by ISO have been produced to correspond (with an acceptable tolerance as judged by the naked eye) to the requirements of ISO 3864-4, it is not intended that these printed copies be used for colour matching. Instead consult ISO 3864-4 which provides colorimetric and photometric properties together with, as a guideline, references from colour order systems.

For a definitive version of all ISO symbols for use in application of this part of ISO 24409, please consult the ISO Online Browsing Platform (<http://www.iso.org/obp/ui/>).

1 Scope

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This part of ISO 24409 prescribes standardized signs and safety notices specifically for use on board ships. Each sign is categorized and indexed according to the safety message that is to be conveyed. Each sign is provided with relevant information on the preferred format of use, the context in which it is used and displayed, as well as a description of the intended audience. The shape and colour required to be used for each sign, as prescribed by ISO 3864-4, are given together with the graphical symbols contained within each sign. This part of ISO 24409 specifies the sign originals that may be scaled for reproduction and application purposes. It includes signs which require supplementary text signs to be used in conjunction with them to improve comprehension. This catalogue is intended to be under continual revision as new shipboard signs and notices are added and as new requirements are identified and corresponding safety signs and notices are developed and standardised. Where an ISO 7010 reference number is given in this part of ISO 24409 it means that the sign is identical to the one in ISO 7010.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3864 (all parts), *Graphical symbols — Safety colours and safety signs*

ISO 7010, *Graphical symbols — Safety colours and safety signs — Registered safety signs*

ISO 17631, *Ships and marine technology — Shipboard plans for fire protection, life-saving appliances and means of escape*

ISO 17724, *Graphical symbols — Vocabulary*

ISO 24409-1, *Ships and marine technology — Design, location, and use of shipboard safety signs — Part 1: Design principles*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17724, ISO 24409-1, and the following apply.

3.1

fire control plan signs

signs used to identify and locate equipment shown on the fire control plan

Note 1 to entry: These signs are related to the symbols in ISO 17631; see 4.1 h) below.

3.2

image content

written description of the elements of a graphical symbol or safety sign and their relative disposition

3.3

referent

idea or object that a graphical symbol is intended to represent

3.4

safety sign original

safety sign with which a referent, a graphical representation and a description of the application are associated

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4 Categorization of shipboard signs

4.1 Shipboard signs are categorized according to their function as follows.

- a) **MES** is the category for means of escape signs which provide escape route identification.
- b) **EES** is the category for emergency equipment signs which provide use and location of first aid facilities and portable safety equipment.
- c) **LSS** is the category for life saving systems and appliances signs which provide use and location of life saving systems and appliances.
- d) **FES** is the category for fire-fighting equipment signs which provide use and location of fire-fighting equipment.
- e) **PSS** is the category for prohibition signs which provide prohibited actions.
- f) **WSS** is the category for hazard warning signs which provide identification of hazards to avoid.
- g) **MSS** is the category for mandatory action signs which provide mandatory notices and instructions.

NOTE The PSS, WSS and MSS categories are the same, respectively, as the P, W and M categories of ISO 7010.



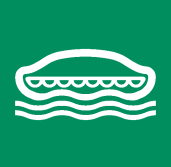











- h) **SIS** is the category for safety and operating instructions for trained personnel. Most of these signs are taken from IMO Resolution A.952(23) for fire control symbols and ISO 17631.









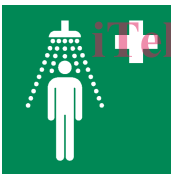












However, the following list shows symbols from A.952(23) that have been replaced by the use of safety signs meeting ISO 3864-1 and are part of the FES category:



- 1) FES012 remote release station replaces 2.13.
 - 2) FES009 Fixed fire extinguishing installation replaces 2.20.
 - 3) FES005 Fixed fire extinguishing battery replaces 2.21.
 - 4) FES010 Fixed fire extinguishing bottle replaces 2.22.
 - 5) FES013 Fire monitor replaces 2.26.
 - 6) FES002 Fire hose reel replaces 2.27.
 - 7) FES001 Fire extinguisher replaces 2.28.
 - 8) FES006 Wheeled fire extinguisher replaces 2.29.
 - 9) FES007 Portable foam replaces 2.30.
 - 10) FES003 Collection of fire fighting equipment replaces 2.31.
 - 11) FES008 Water fog applicator replaces 2.33.
 - 12) FES011 Push button for general alarm replaces 2.39.
 - 13) FES004 Fire alarm call point replaces 2.40.
- i) SMS is the category for mimic signs. Refer to SOLAS regulation II-2/13.7.2.2, and the cabin instructions referred to in SOLAS regulation III/8.4 and IMO Resolution A.752(18).







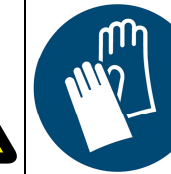



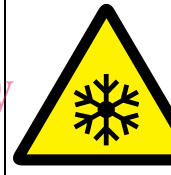
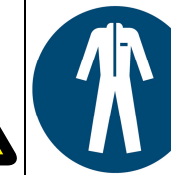



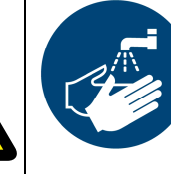
4.2 Table 1 summarizes the standardized safety signs, with the exception of SIS and mimic signs, used in workplaces and public areas in terms of functional category, referent number, referent, graphical symbol as well as geometric shape and colour in accordance with the design principles in ISO 24409-1.

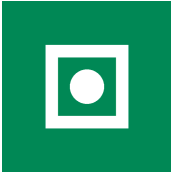



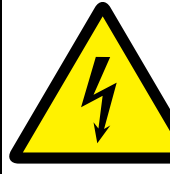





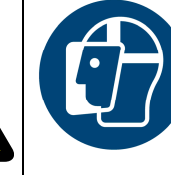



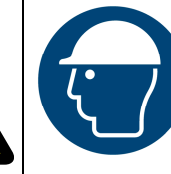
Table 1 — Summary of safety signs for shipboard use













CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
Means of Escape Signs	Emergency Equipment Signs	Lifesaving Signs	Fire-fighting Equipment Signs	Prohibition Signs	Warning Signs	Mandatory Signs
 <p>MES001 (ISO 7010-E032) Assembly station</p>	 <p>EES001 (ISO 7010-E003) First Aid</p>	 <p>LSS001 (ISO 7010-E036) Lifeboat</p>	 <p>FES001 (ISO 7010-F001) Fire extinguisher</p>	 <p>PSS001 (ISO 7010-P001) General prohibition</p>	 <p>WSS001 (ISO 7010-W001) General warning</p>	 <p>MSS001 (ISO 7010-M001) General Mandatory action</p>
 <p>MES002 (ISO 7010-E001) Emergency exit (left hand)</p>	 <p>EES002 (ISO 7010-E004) Emergency telephone</p>	 <p>LSS002 (ISO 7010-E037) Rescue boat</p>	 <p>FES002 (ISO 7010-F002) Fire hose reel</p>	 <p>PSS002 (ISO 7010-P002) No smoking</p>	 <p>WSS002 (ISO 7010-W002) Warning; Explosive material</p>	 <p>MSS002 (ISO 7010-M002) Refer to instruction manual or booklet</p>

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
 <p>MES003 (ISO 7010-E002) Emergency exit (right hand)</p>	 <p>EES003 (ISO 7010-E011) Eye wash station</p>	 <p>LSS003 (ISO 7010-E038) Liferaft</p>	 <p>FES003 (ISO 7010-F004) Collection of fire fighting equipment</p>	 <p>PSS003 (ISO 7010-P003) No open flame; fire, open ignition source and smoking prohibited</p>	 <p>WSS003 (ISO 7010-W003) Warning; Radioactive material or ionizing radiation</p>	 <p>MSS003 (ISO 7010-M003) Wear ear protection</p>
 <p>MES004 (ISO 7010-E033) Door slides right to open</p>	 <p>EES004 (ISO 7010-E012) Emergency shower</p>	 <p>LSS004 (ISO 7010-E039) Davit-launched liferaft</p>	 <p>FES004 (ISO 7010-F005) Fire alarm call point</p>	 <p>PSS004 (ISO 7010-P004) No thoroughfare</p>	 <p>WSS004 (ISO 7010-W004) Warning; Laser beam</p>	 <p>MSS004 (ISO 7010-M004) Wear eye protection</p>
 <p>MES005 (ISO 7010-E034) Door slides left to open</p>	 <p>EES005 (ISO 7010-E013) Stretcher</p>	 <p>LSS005 (ISO 7010-E040) Lifebuoy</p>	 <p>FES005 (ISO 7010-F008) Fixed fire extinguishing battery</p>	 <p>PSS005 (ISO 7010-P005) Not drinking water</p>	 <p>WSS005 (ISO 7010-W005) Warning; Non-ionizing radiation</p>	 <p>MSS005 (ISO 7010-M005) Connect an earth terminal to the ground</p>

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
 <p>MES 006 (ISO 7010-E018) Turn anti-clockwise to open</p>	 <p>EES006 (ISO 7010-E027) Medical grab bag</p>	 <p>LSS006 (ISO 7010-E041) Lifebuoy with line</p>	 <p>FES006 (ISO 7010-F009) Wheeled fire extinguisher</p>	 <p>PSS006 (ISO 7010-P006) No access for fork lift trucks and other industrial vehicles</p>	 <p>WSS006 (ISO 7010-W006) Warning; Magnetic field</p>	 <p>MSS006 (ISO 7010-M006) Disconnect mains plug from electrical outlet</p>
 <p>MES007 (ISO 7010-E019) Turn clockwise to open</p>	 <p>EES007 (ISO 7010-E028) Oxygen resuscitator</p>	 <p>LSS007 (ISO 7010-E042) Lifebuoy with light</p>	 <p>FES007 (ISO 7010-F010) Portable foam</p>	 <p>PSS007 (ISO 7010-P007) No access for people with active implanted cardiac devices</p>	 <p>WSS007 (ISO 7010-W007) Warning; Floor level obstacle</p>	 <p>MSS007 (ISO 7010-M007) Wear opaque eye protection</p>
 <p>MES008 (ISO 7010-E057) Door opens by pulling on left-hand side</p>	 <p>EES008 (ISO 7010-E029) EEBD</p>	 <p>LSS008 (ISO 7010-E043) Lifebuoy with line & light</p>	 <p>FES008 (ISO 7010-F011) Water fog applicator</p>	 <p>PSS008 (ISO 7010-P008) No metallic articles or watches</p>	 <p>WSS008 (ISO 7010-W008) Warning; Drop (fall)</p>	 <p>MSS008 (ISO 7010-M008) Wear safety footwear</p>

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
 <p>MES009 (ISO 7010-E058) Door opens by pulling on right-hand side</p>	 <p>EES009 (ISO 7010-E009) Doctor</p>	 <p>LSS Lifebuoy with light and smoke</p>	 <p>FES009 (ISO 7010-F012) Fixed fire extinguishing installation</p>	 <p>PSS009 (ISO 7010-P010) Do not touch</p>	 <p>WSS009 (ISO 7010-W009) Warning; Biological hazard</p>	 <p>MSS009 (ISO 7010-M009) Wear protective gloves</p>
 <p>MES 010 (ISO 7010-E023) Push door on right-hand side to open</p>	 <p>EES010 (ISO 7010-E010) Automated external heart defibrillator</p>	 <p>LSS009 (ISO 7010-E044) Lifejacket</p>	 <p>FES010 (ISO 7010-F013) Fixed fire extinguishing bottle</p>	 <p>PSS010 (ISO 7010-P011) Do not extinguish with water</p>	 <p>WSS010 (ISO 7010-W010) Warning; Low temperature or freezing conditions</p>	 <p>MSS010 (ISO 7010-M010) Wear protective clothing</p>
	 <p>EES011 Safety Equipment</p>	 <p>LSS010 (ISO 7010-E045) Child's lifejacket</p>	 <p>FES011 (ISO 7010-F014) Remote release station</p>	 <p>PSS011 (ISO 7010-P013) No activated mobile phones</p>	 <p>WSS011 (ISO 7010-W011) Warning; Slippery surface</p>	 <p>MSS011 (ISO 7010-M011) Wash your hands</p>

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
	 <p>EES012 General Alarm</p>	 <p>LSS011 (ISO 7010-E046) Infant's lifejacket</p>	 <p>FES012 (ISO 7010-F015) Fire monitor</p>	 <p>PSS012 (ISO 7010-P014) No access for persons with metallic implants</p>	 <p>WSS012 (ISO 7010-W012) Warning; Electricity</p>	 <p>MSS012 (ISO 7010-M012) Use handrail</p>
	 <p>EES013 Break glass to obtain access</p>	 <p>LSS012 (ISO 7010-E047) Search and rescue locating device</p>	<p>ISO 24409-2:2014 https://standards.iteh.ai/catalog/standards/sist/66e35481-3deb-4701-8017-20b989470979/iso-24409-2-2014</p>	 <p>PSS013 (ISO 7010-P015) No reaching in</p>	 <p>WSS013 (ISO 7010-W013) Warning; Guard dog</p>	 <p>MSS013 (ISO 7010-M013) Wear faceshield</p>
		 <p>LSS013 (ISO 7010-E048) Survival craft distress signals</p>		 <p>PSS014 (ISO 7010-P017) No pushing</p>	 <p>WSS014 (ISO 7010-W014) Warning; Forklift trucks and other industrial vehicles</p>	 <p>MSS014 (ISO 7010-M014) Wear head protection</p>

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
		 <p>LSS014 (ISO 7010-E049) Rocket parachute flares</p>		 <p>PSS015 (ISO 7010-P018) No sitting</p>	 <p>WSS015 (ISO 7010-W015) Warning; Overhead load</p>	 <p>MSS015 (ISO 7010-M015) Wear high visibility clothing</p>
		 <p>LSS015 (ISO 7010-E050) Line-throwing appliances</p>		 <p>PSS016 (ISO 7010-P019) No stepping on surface</p>	 <p>WSS016 (ISO 7010-W016) Warning; Toxic material</p>	 <p>MSS016 (ISO 7010-M016) Wear a mask</p>
		 <p>LSS016 (ISO 7010-E051) Two-way VHF radiotelephone apparatus</p>		 <p>PSS017 (ISO 7010-P020) Do not use lift in the event of fire</p>	 <p>WSS017 (ISO 7010-W017) Warning; Hot surface</p>	 <p>MSS017 (ISO 7010-M017) Wear respiratory protection</p>