

BS ISO 20712-1:2008



BSI Standards Publication

# Water safety signs and beach safety flags

Part 1: Specifications for water safety signs used in workplaces and public areas

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## National foreword

This British Standard is the UK implementation of ISO 20712-1:2008. It supersedes BS 5499-11:2002, which is withdrawn.

National Annex NA has been added by PH/8/1, to provide registered water safety signs, which were originally in BS 5499-11, but have not subsequently been included in ISO 20712-1, or those that have not been included in either. This National Annex will be revised regularly to include water safety signs as they are standardized by ISO and BSI. All safety signs within the National Annex conform to the design principles given in BS ISO 3864-1 and the design criteria given in ISO 3864-3, as well as using the ISO 7010 template available at <http://www.iso.org/tc145/sc2>.

BS ISO 7010 provides other registered safety signs, and the colorimetric and photometric properties of safety sign materials are given in BS ISO 3864-4.

The original suite of standards on safety signs in BS 5499 included BS 5499-1, BS 5499-5, BS 5499-6, and BS 5499-11. They were all cross-linked. All are currently being, or due to be, withdrawn as follows:

- BS ISO 3864-1 will supersede BS 5499-1.
- BS ISO 3864-4 is new and covers material replacing that in the previous edition of ISO 3864-1. BS 5378-2 will be withdrawn.
- BS ISO 3864-3 will supersede BS 5499-6.
- BS ISO 7010 will supersede BS 5499-5.
- BS ISO 20712-1 will supersede BS 5499-11.

Guidance on the application of water safety signs is given in BS ISO 20712-3 and BS 8569.

The use of safety signs does not replace the need for proper working methods and for instruction, training in accident prevention, and the actions to be taken in the event of an emergency.

The UK participation in its preparation was entrusted to Technical Committee PH/8/1, Graphical Symbols - Safety Signs.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© BSI 2011

ISBN 978 0 580 55487 2

ICS 01.080.10; 97.220.40

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 September 2011.

## Amendments issued since publication

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| Date | Text affected |
|------|---------------|
|------|---------------|

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**Water safety signs and beach safety  
flags —**

Part 1:  
**Specifications for water safety signs  
used in workplaces and public areas**

*Signaux de sécurité relatifs à l'eau et drapeaux de sécurité pour les  
plages —*

*Partie 1: Spécifications des signaux de sécurité relatifs à l'eau utilisés  
sur les lieux de travail et dans les lieux publics*



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Published in Switzerland

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 20712-1 was prepared by Technical Committee ISO/TC 145, *Graphical symbols*, Subcommittee SC 2, *Safety identification, signs, shapes, symbols and colours*.

ISO 20712 consists of the following parts, under the general title *Water safety signs and beach safety flags*:

- *Part 1: Specifications for water safety signs used in workplaces and public areas*
- *Part 2: Specifications for beach safety flags — Colour, shape, meaning and performance*
- *Part 3: Guidance for use*

## Introduction

There is a need to standardize a system giving safety information related to aquatic activity that relies as little as possible on the use of words to achieve understanding.

Continued growth in international trade, travel and mobility of labour requires a common method of communicating safety information.

Lack of standardization may lead to confusion and perhaps accidents.

The use of standardized safety signs does not replace proper work methods, instructions and accident prevention training and/or measures. Education is an essential part of any system that provides safety information.

This part of ISO 20712 is intended to be used by all Technical Committees within ISO charged with developing specific safety signing in places of aquatic activity to ensure that there is only one safety sign for each safety meaning. It is also intended that this part of ISO 20712 be revised regularly to include safety signs as they are standardized by ISO, and which conform to the principles given in ISO 3864-1 and the design criteria given in ISO 3864-3.

NOTE 1 Some countries' statutory regulations may differ in some respect from those given in this part of ISO 20712.

NOTE 2 Some countries may differ in some respect from the requirements given in this part of ISO 20712 in that they use the diamond geometric shape for warning signs.





# Water safety signs and beach safety flags —

## Part 1: Specifications for water safety signs used in workplaces and public areas

**IMPORTANT** — The colours represented in the electronic file of this part of ISO 20712 can be neither viewed on screen nor printed as true representations. Although the copies of this part of ISO 20712 printed by ISO have been produced to correspond (with an acceptable tolerance as judged by the naked eye) to the requirements of ISO 3864-1, it is not intended that these printed copies be used for colour matching. Instead, consult ISO 3864-1, which provides colorimetric and photometric properties, together with, as a guideline, references from colour order systems.

### 1 Scope

This part of ISO 20712 prescribes water safety signs intended for use in connection with the aquatic environment. It is intended for use by owners and operators of aquatic environments and by manufacturers of signs and equipment. However, it is not applicable to signalling used for maritime traffic.

The shape and colour required to be used for safety signs, as prescribed by ISO 3864-1, are given together with the graphical symbols contained within each sign. The water safety sign originals meet the design criteria of ISO 3864-3.

This part of ISO 20712 specifies the water safety sign originals that may be scaled for reproduction and application purposes.

This part of ISO 20712 includes water safety signs which require that supplementary text signs be used in conjunction with these water safety signs to improve comprehension.

NOTE The criteria of acceptability adopted by ISO/TC 145/SC 2 are given on website [www.iso.org/tc145/sc2](http://www.iso.org/tc145/sc2).

### 2 Normative references

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

ISO 3864-1, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs in workplaces and public areas*

ISO 3864-3, *Graphical symbols — Safety colours and safety signs — Part 3: Design principles for graphical symbols for use in safety signs*

ISO 9186-1, *Graphical symbols — Test methods — Part 1: Methods for testing comprehensibility*

ISO 17724, *Graphical symbols — Vocabulary*

### 3 Terms and definitions

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

**3.1 aquatic environment**  
areas such as coastal and inland beaches and waterways, swimming pools and their facilities, and other bodies of water, slurry and other agricultural and industrial liquids storage

**3.2 format of application**  
type of object on which the symbol or sign is intended to be used

**3.3 referent**  
idea or object that a safety sign 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

### 4 Referents and categorization of water safety signs

#### 4.1 General

The summaries in 4.2 and 4.3 are provided to facilitate the search for standardized water safety signs.

#### 4.2 Referent (safety meaning)

Table 1 gives the list of referents in alphabetical order and provides the water safety sign functional reference number.

**Table 1 — Summary of referents by alphabetical order**

| <b>Referent<br/>(safety meaning)</b>                       | <b>Functional reference number</b> |
|--|------------------------------------|
| Boating area, warning                                      | WSW016                             |
| Crocodiles, alligators or caymans, warning                 | WSW025                             |
| Deep shelving beach, warning                               | WSW024                             |
| Deep water, warning  | WSW005                             |
| High surf or large breaking waves, warning                 | WSW023                             |
| Incoming tides, warning                                    | WSW018                             |
| Keep children under supervision in the aquatic environment | WSM002                             |
| Kite surfing, warning                                      | WSW020                             |
| No body boarding   | WSP016                             |
| No diving  | WSP005                             |
| No jumping into water                                      | WSP014                             |
| No kite surfing  | WSP018                             |
| No manually powered craft                                  | WSP008                             |
| No mechanically powered craft                              | WSP009                             |
| No outdoor footwear  | WSP013                             |
| No parasailing   | WSP019                             |
| No personal water craft                                    | WSP010                             |
| No pushing into water                                      | WSP015                             |
| No running   | WSP001                             |
| No sailing   | WSP006                             |
| No sand yachting   | WSP020                             |
| No snorkelling   | WSP003                             |
| No sub-aqua diving   | WSP004                             |
| No surf craft  | WSP012                             |
| No surfing between the red-and-yellow flags                | WSP017                             |
| No swimming  | WSP002                             |
| No towed water activity                                    | WSP011                             |
| No windsurfing   | WSP007                             |
| Parasailing, warning                                       | WSW021                             |
| Public rescue equipment                                    | WSE001                             |
| Quicksand or mud/deep mud or silt, warning                 | WSW019                             |
| Sand yachting, warning                                     | WSW017                             |
| Sewage effluent outfall, warning                           | WSW013                             |
| Shallow water (diving), warning                            | WSW006                             |
| Sharks, warning  | WSW012                             |

Table 1 (continued)

| Referent<br>(safety meaning)                      | Functional reference number |
|---|-----------------------------|
| Slipway, warning                                  | WSW002                      |
| Strong currents, warning                          | WSW015                      |
| Strong winds, warning                             | WSW022                      |
| Submerged objects, warning                        | WSW007                      |
| Sudden drop in swimming or leisure pools, warning | WSW008                      |
| Surf craft area, warning                          | WSW004                      |
| Thin ice, warning                                 | WSW001                      |
| Towed water activity area, warning                | WSW003                      |
| Tsunami evacuation area                           | WSE002                      |
| Tsunami evacuation building                       | WSE003                      |
| Tsunami hazard zone, warning                      | WSW014                      |
| Unprotected edges, warning                        | WSW009                      |
| Unstable cliff, warning                           | WSW011                      |
| Unstable cliff edge, warning                      | WSW010                      |
| Wear personal flotation devices                   | WSM001                      |

### 4.3 Categorization of water safety signs

Water safety signs are categorized according to their function as follows:

- E is the category for means of escape and emergency equipment signs (safe condition signs);
- M is the category for mandatory action signs;
- P is the category for prohibition signs;
- W is the category for warning signs.

Table 2 summarizes the standardized safety signs used in workplaces and public areas in terms of function category, graphical symbol and geometric shape and colour as specified in ISO 3864-1.

## 5 Standardized water safety signs

Tables 3 to 6 give safety sign originals in a uniform 70 mm size with corner marks to enable accurate enlargement and reduction scaling. The sign illustrations are shown without borders in order to allow for consistent reproduction scaling, though the use of borders is encouraged as defined by ISO 3864-1. The safety signs should be reproduced exactly as shown in Tables 3 to 6. However some degree of graphical modification is permitted when cultural differences or special application formats need to be considered, provided the original meaning is retained and comprehension of the sign is maintained. Consistent reproduction and use of these safety signs will lead to a progressively improved degree of comprehension at the international level.

In cases where the orientation of the symbol is not essential to its meaning, the orientation may be changed.

A graphical symbol may be depicted in outline or filled-in form.

Tables 3 to 6 present the safety sign originals according to their category as follows:

|     |  |             |
|-----|--|-------------|
| — E | Means of escape and emergency equipment signs (safe condition signs) | see Table 3 |
| — M | Mandatory action signs   | see Table 4 |
| — P | Prohibition signs  | see Table 5 |
| — W | Warning signs  | see Table 6 |

Tables 3 to 6 also give a description of the application used for each safety sign.

Table 2 — Summary of all safety signs
















| Safety sign,<br>reference number<br>and referent   | Category  |  |   |               |
|--|---|--|---|---------------|
|  | E   | M  | P   | W             |
|  | Means of escape<br>and emergency<br>equipment signs   | Mandatory action<br>signs  | Prohibition signs   | Warning signs |
| <p>Safety sign</p>  <p>Reference number<br/>Referent</p> <p><b>WSE001</b><br/>Public rescue<br/>equipment</p>       |  <p><b>WSM001</b><br/>Wear personal<br/>flotation<br/>devices</p>                            |  <p><b>WSP001</b><br/>No running</p>           |  <p><b>WSW001</b><br/>Warning; Thin ice</p>                        |               |
| <p>Safety sign</p>  <p>Reference number<br/>Referent</p> <p><b>WSE002</b><br/>Tsunami<br/>evacuation area</p>       |  <p><b>WSM002</b><br/>Keep children under<br/>supervision in the<br/>aquatic environment</p> |  <p><b>WSP002</b><br/>No swimming</p>          |  <p><b>WSW002</b><br/>Warning; Slipway</p>                         |               |
| <p>Safety sign</p>  <p>Reference number<br/>Referent</p> <p><b>WSE003</b><br/>Tsunami<br/>evacuation building</p> | <p>—</p>  |  <p><b>WSP003</b><br/>No snorkelling</p>     |  <p><b>WSW003</b><br/>Warning; Towed water<br/>activity area</p> |               |
| <p>Safety sign</p> <p>—</p> <p>Reference number<br/>Referent</p> <p>—<br/>—</p>  | <p>—</p>  |  <p><b>WSP004</b><br/>No sub-aqua diving</p> |  <p><b>WSW004</b><br/>Warning;<br/>Surf craft area</p>           |               |
| <p>Safety sign</p> <p>—</p> <p>Reference number<br/>Referent</p> <p>—<br/>—</p>  | <p>—</p>  |  <p><b>WSP005</b><br/>No diving</p>          |  <p><b>WSW005</b><br/>Warning; Deep water</p>                    |               |

Table 2 (continued)






| Safety sign,<br>reference number<br>and referent | Category  |                           |   |   |
|--|---|---------------------------|---|---|
|  | E   | M                         | P   | W   |
|  | Means of escape<br>and emergency<br>equipment signs | Mandatory action<br>signs | Prohibition signs   | Warning signs   |
| Safety sign                                      | —   | —                         |    |    |
| Reference number                                 | —   | —                         | <b>WSP006</b>   | <b>WSW006</b>   |
| Referent   | —   | —                         | No sailing  | Warning;<br>Shallow water (diving)  |
| Safety sign                                      | —   | —                         |    |    |
| Reference number                                 | —   | —                         | <b>WSP007</b>   | <b>WSW007</b>   |
| Referent   | —   | —                         | No windsurfing  | Warning;<br>Submerged objects   |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP008</b>   | <b>WSW008</b>   |
| Referent   | —   | —                         | No manually<br>powered craft  | Warning; Sudden drop<br>in swimming or leisure<br>pools                               |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP009</b>   | <b>WSW009</b>   |
| Referent   | —   | —                         | No mechanically<br>powered craft  | Warning;<br>Unprotected edges   |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP010</b>   | <b>WSW010</b>   |
| Referent   | —   | —                         | No personal<br>water craft  | Warning;<br>Unstable cliff edge   |

Table 2 (continued)














| Safety sign,<br>reference number<br>and referent | Category  |                           |  |   |
|--|---|---------------------------|--|---|
|  | E   | M                         | P  | W   |
|  | Means of escape<br>and emergency<br>equipment signs | Mandatory action<br>signs | Prohibition signs  | Warning signs   |
| Safety sign                                      | —   | —                         |    |    |
| Reference number                                 | —   | —                         | <b>WSP011</b>  | <b>WSW011</b>   |
| Referent   | —   | —                         | No towed water<br>activity   | Warning; Unstable cliff   |
| Safety sign                                      | —   | —                         |    |    |
| Reference number                                 | —   | —                         | <b>WSP012</b>  | <b>WSW012</b>   |
| Referent   | —   | —                         | No surf craft  | Warning; Sharks   |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP013</b>  | <b>WSW013</b>   |
| Referent   | —   | —                         | No outdoor footwear  | Warning; Sewage<br>effluent outfall   |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP014</b>  | <b>WSW014</b>   |
| Referent   | —   | —                         | No jumping into water  | Warning; Tsunami<br>hazard zone   |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP015</b>  | <b>WSW015</b>   |
| Referent   | —   | —                         | No pushing into water  | Warning;<br>Strong currents   |



Table 2 (continued)

| Safety sign,<br>reference number<br>and referent | Category  |                           |   |   |
|--|---|---------------------------|---|---|
|  | E   | M                         | P   | W   |
|  | Means of escape<br>and emergency<br>equipment signs | Mandatory action<br>signs | Prohibition signs   | Warning signs   |
| Safety sign                                      | —   | —                         |    |    |
| Reference number                                 | —   | —                         | <b>WSP016</b>   | <b>WSW016</b>   |
| Referent   | —   | —                         | No body boarding  | Warning; Boating area   |
| Safety sign                                      | —   | —                         |    |    |
| Reference number                                 | —   | —                         | <b>WSP017</b>   | <b>WSW017</b>   |
| Referent   | —   | —                         | No surfing between<br>the red-and-yellow<br>flags                                     | Warning;<br>Sand yachting   |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP018</b>   | <b>WSW018</b>   |
| Referent   | —   | —                         | No kite surfing   | Warning;<br>Incoming tides  |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP019</b>   | <b>WSW019</b>   |
| Referent   | —   | —                         | No parasailing  | Warning; Quicksand or<br>mud/deep mud or silt   |
| Safety sign                                      | —   | —                         |  |  |
| Reference number                                 | —   | —                         | <b>WSP020</b>   | <b>WSW020</b>   |
| Referent   | —   | —                         | No sand yachting  | Warning; Kite surfing   |

Table 2 (continued)

| Safety sign,<br>reference number<br>and referent | Category  |                           |                   |   |
|--|---|---------------------------|-------------------|---|
|  | E   | M                         | P                 | W   |
|  | Means of escape<br>and emergency<br>equipment signs | Mandatory action<br>signs | Prohibition signs | Warning signs   |
| Safety sign                                      | —   | —                         | —                 |    |
| Reference number                                 | —   | —                         | —                 | <b>WSW021</b>   |
| Referent   | —   | —                         | —                 | Warning; Parasailing  |
| Safety sign                                      | —   | —                         | —                 |    |
| Reference number                                 | —   | —                         | —                 | <b>WSW022</b>   |
| Referent   | —   | —                         | —                 | Warning; Strong winds   |
| Safety sign                                      | —   | —                         | —                 |  |
| Reference number                                 | —   | —                         | —                 | <b>WSW023</b>   |
| Referent   | —   | —                         | —                 | Warning; High surf or large breaking waves  |
| Safety sign                                      | —   | —                         | —                 |  |
| Reference number                                 | —   | —                         | —                 | <b>WSW024</b>   |
| Referent   | —   | —                         | —                 | Warning;<br>Deep shelving beach   |
| Safety sign                                      | —   | —                         | —                 |  |
| Reference number                                 | —   | —                         | —                 | <b>WSW025</b>   |
| Referent   | —   | —                         | —                 | Warning; Crocodiles,<br>alligators or caymans   |

**Table 3 — Description and application of referent for means of escape and emergency equipment signs (safe condition signs) (category E)**

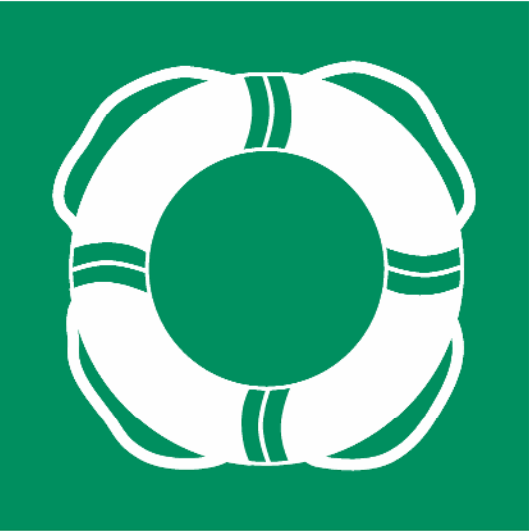
|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSE001</b></p>                         |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Public rescue equipment</b></p>             |
|   | <b>Function</b><br>To indicate the location of water life-saving equipment (public rescue equipment) |
|   | <b>Image content</b><br>Lifebelt ring with rope  |
| <p><b>Hazard</b></p> <p>Not being able to locate the public rescue equipment which is provided to assist in the avoidance of drowning</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>People being aware of location of public rescue equipment at the time of need</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>People not being aware of location of public rescue equipment at the time of need</p> <p><b>Need</b></p> <p>The use of public rescue equipment can reduce the risk of injury or drowning.</p> <p><b>Related referents</b></p> <p>—</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices and safety manuals</p> <p><b>Context of use</b></p> <p>In aquatic environments; water safety, aquatic safety</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 3 (continued)


|  |  |
|--|--|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSE002</b></p>   |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>Tsunami evacuation area</b></p>                                       |
|  | <b>Function</b><br><br><p>To indicate the location of a safe place/uphill area for evacuation to in the event of a tsunami</p> |
|  | <b>Image content</b><br><br><p>Human figure between a slope of land mass and a tsunami wave</p>                                |
| <p><b>Hazard</b><br/>         Tsunami wave originating from an ocean-floor seismic event in which people could be caught if they have not reached the tsunami evacuation area</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>         Evacuation from coastal/beach zone towards higher place/hill in the event of an earthquake or when a tsunami warning has been issued</p> <p><b>Human behaviour that is intended to be prevented</b><br/>         Remaining in the coastal/beach zone or running in the sea or wrong direction when a tsunami warning has been issued</p> <p><b>Need</b><br/>         Although tsunami mitigation plans have been prepared and are available to civil protection agencies, they shall be complemented by signs that advise the population on directions to take to tsunami evacuation areas. People can be injured or drowned if they are not given indication of location of tsunami evacuation areas and directions to them.</p> <p><b>Related referents</b><br/>         WSE003, WSW014</p> <p><b>Field of application</b><br/>         Workplaces, public areas</p> <p><b>Format of application</b><br/>         Multiple signs in relevant coastal/beach zones and evacuation routes, notices, safety manuals</p> <p><b>Context of use</b><br/>         In tsunami hazard zones, signing of evacuation routes to tsunami evacuation areas should consist of WSE002 supplemented by the appropriate direction arrow ISO 7010-E005 or ISO 7010-E006. WSE002 shall be used to indicate the location of a tsunami evacuation area.</p> <p><b>Additional information</b><br/>         This water safety sign has been the subject of extensive research by the Japanese government and has also been requested by UNESCO as part of an overall approach to a management strategy designed to mitigate the disastrous effects of a tsunami wave. The design selected has received the best comprehension results and is specific to the special circumstances of the tsunami hazard. Supplementary text shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 3 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSE003</b></p>                                       |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Tsunami evacuation building</b></p>                       |
|   | <b>Function</b><br><br><p>To indicate the location of a safe building for evacuation in the event of a tsunami</p> |
|   | <b>Image content</b><br><br><p>Human figure between a building and a tsunami wave</p>                              |
| <p><b>Hazard</b><br/>Tsunami wave originating from an ocean-floor seismic event in which people could be caught if they have not reached the tsunami evacuation building</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Evacuation from coastal/beach zone towards a tsunami evacuation building in the event of an earthquake or when a tsunami warning has been issued</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Remaining in the coastal/beach zone or running in the sea or wrong direction when a tsunami warning has been issued</p> <p><b>Need</b><br/>Although tsunami mitigation plans have been prepared and are available to civil protection agencies, they shall be complemented by signs that advise the population on directions to take to tsunami evacuation buildings. People can be injured or drowned if they are not given indication of location of tsunami evacuation buildings and directions to them.</p> <p><b>Related referents</b><br/>WSE002, WSW014</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Multiple signs in relevant coastal/beach zones and evacuation routes, notices, safety manuals</p> <p><b>Context of use</b><br/>In tsunami hazard zones, signing of evacuation routes to tsunami evacuation buildings should consist of WSE003 supplemented by the appropriate direction arrow ISO 7010-E005 or ISO 7010-E006. WSE003 shall be used to indicate the location of a tsunami evacuation building.</p> <p><b>Additional information</b><br/>This water safety sign has been the subject of extensive research by the Japanese government and has also been requested by UNESCO as part of an overall approach to a management strategy designed to mitigate the disastrous effects of a tsunami wave. The design selected has received the best comprehension results and is specific to the special circumstances of the tsunami hazard. Supplementary text shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 4 — Description and application of referent for mandatory action signs (category M)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSM001</b></p>                     |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Wear personal flotation devices</b></p> |
|   | <b>Function</b><br>To signify that personal flotation devices (lifejackets) must be worn     |
|   | <b>Image content</b><br>Human figure wearing personal flotation device (lifejacket)          |
| <b>Hazard</b><br>Not using a personal flotation device can result in a person drowning<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Wearing personal flotation device (lifejacket)<br><b>Human behaviour that is intended to be prevented</b><br>Neglecting the dangers of drowning and not wearing personal flotation device (lifejacket)<br><b>Need</b><br>Personal flotation devices are needed in an emergency to help avoid drowning.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In aquatic environments; water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |

Table 4 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSM002</b></p>   |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Keep children under supervision in the aquatic environment</b></p>              |
|   | <b>Function</b><br><br><p>To signify that children must be kept under supervision in the aquatic environment</p>                         |
|   | <b>Image content</b><br><br><p>Top part of large human figure, top part of small human figure with raised arm, arrow, two wavy lines</p> |
| <p><b>Hazard</b><br/>Children being in water where they could get into difficulties</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Adults supervising children playing in water or swimming</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Children playing in water or swimming without the supervision of adults</p> <p><b>Need</b><br/>Many young children drown in pools whilst unsupervised.</p> <p><b>Related referents</b><br/>—</p> <p><b>Field of application</b><br/>Workplaces, public areas, products</p> <p><b>Format of application</b><br/>Safety signing, notices, safety manuals, product safety labels</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety, swimming pools. Each place and time where children could be unsupervised</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 5 — Description and application of referent for prohibition signs (category P)

|  |  |
|--|--|
|   | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP001</b></p> |
|  | <b>Referent</b><br><p style="text-align: center;"><b>No running</b></p>  |
|  | <b>Function</b><br>To prohibit running                                   |
|  | <b>Image content</b><br>Human figure shown in profile running            |
| <b>Hazard</b><br>Falling or colliding caused by running<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>No running<br><b>Human behaviour that is intended to be prevented</b><br>Running<br><b>Need</b><br>People can injure themselves or others when running in areas beside swimming pools and in other areas.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety, swimming pools and other areas<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |



Table 5 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP002</b></p> |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No swimming</b></p> |
|   | <b>Function</b><br>To prohibit swimming                                  |
|   | <b>Image content</b><br>Human figure swimming, two wavy lines            |
| <p><b>Hazard</b><br/>         Water conditions or environment hazardous to swimmers</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>         No swimming</p> <p><b>Human behaviour that is intended to be prevented</b><br/>         Swimming</p> <p><b>Need</b><br/>         People can be injured or drowned if they swim in hazardous locations.</p> <p><b>Related referents</b><br/>         —</p> <p><b>Field of application</b><br/>         Workplaces, public areas</p> <p><b>Format of application</b><br/>         Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>         In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>         Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 5 (continued)

|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP003</b></p>          |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No snorkelling</b></p>       |
|   | <b>Function</b><br>To prohibit the use of snorkelling equipment                   |
|   | <b>Image content</b><br>Human figure with snorkelling equipment, single wavy line |
| <b>Hazard</b><br>Snorkellers and their equipment being in an area where they could collide with other people or craft in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>No snorkelling<br><b>Human behaviour that is intended to be prevented</b><br>Snorkelling<br><b>Need</b><br>People can be injured or drowned if there is a collision with snorkellers and their equipment, including boat or water craft users who may be unaware of the hidden danger beneath the water in an area of aquatic activity.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety, swimming pools<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |   |

Table 5 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSP004</b></p>                      |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>No sub-aqua diving</b></p>               |
|   | <b>Function</b><br><p>To prohibit the use of sub-aqua equipment</p>                               |
|   | <b>Image content</b><br><p>Human figure with sub-aqua equipment, three dots, single wavy line</p> |
| <p><b>Hazard</b><br/> Sub-aqua divers and their equipment being in an area where they could collide with other people or craft in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/> No sub-aqua diving</p> <p><b>Human behaviour that is intended to be prevented</b><br/> Sub-aqua diving</p> <p><b>Need</b><br/> People can be injured or drowned if there is a collision with sub-aqua divers and their equipment, including boats or water craft users who may be unaware of the hidden danger beneath the water in an area of aquatic activity.</p> <p><b>Related referents</b><br/> —</p> <p><b>Field of application</b><br/> Workplaces, public areas</p> <p><b>Format of application</b><br/> Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/> In areas of aquatic activity, water safety, aquatic safety, swimming pools</p> <p><b>Additional information</b><br/> Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |   |

Table 5 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP005</b></p> |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No diving</b></p>   |
|   | <b>Function</b><br>To prohibit diving into the water                     |
|   | <b>Image content</b><br>Human figure diving, two wavy lines              |
| <b>Hazard</b><br>Divers being in an area where they could collide with other people or encounter other hazards in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>No diving<br><b>Human behaviour that is intended to be prevented</b><br>Diving<br><b>Need</b><br>People can injure or drown themselves or others by diving in hazardous locations or areas of aquatic activity.<br><b>Related referents</b><br>WSW006, WSW007<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety, swimming pools<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |

Table 5 (continued)


|  |  |
|--|--|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSP006</b></p> |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>No sailing</b></p>  |
|  | <b>Function</b><br>To prohibit sailing                                       |
|  | <b>Image content</b><br>Sailing boat, two wavy lines                         |
| <p><b>Hazard</b><br/>Sailing boats being in an area where they could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>No sailing</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Sailing</p> <p><b>Need</b><br/>People can be injured or drowned if sailing boats enter an area of aquatic activity.</p> <p><b>Related referents</b><br/>—</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 5 (continued)

|  |   |
|--|---|
|   | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP007</b></p>    |
|  | <b>Referent</b><br><p style="text-align: center;"><b>No windsurfing</b></p> |
|  | <b>Function</b><br>To prohibit windsurfing                                  |
|  | <b>Image content</b><br>Human figure, windsurfing board, two wavy lines     |
| <b>Hazard</b><br>Windsurfing boards being in an area where they could collide with people in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>No windsurfing<br><b>Human behaviour that is intended to be prevented</b><br>Windsurfing<br><b>Need</b><br>People can be injured or drowned if windsurfing boards enter an area of aquatic activity.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |   |

Table 5 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP008</b></p>  |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No manually powered craft</b></p>                              |
|   | <b>Function</b><br>To prohibit the use of manually powered craft (e.g. rowing, sculling, paddling, punting, pedalo) |
|   | <b>Image content</b><br>Human figure, rowing boat, oar, two wavy lines  |
| <b>Hazard</b><br>Manually powered craft being in an area where they could collide with people in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Not using manually powered craft<br><b>Human behaviour that is intended to be prevented</b><br>Using manually powered craft<br><b>Need</b><br>People can be injured or drowned if manually powered craft enter an area of aquatic activity.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |   |

Table 5 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP009</b></p>                   |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No mechanically powered craft</b></p> |
|   | <b>Function</b><br>To prohibit the use of mechanically powered craft                       |
|   | <b>Image content</b><br>Mechanically powered craft, two wavy lines                         |
| <b>Hazard</b><br>Mechanically powered craft being in an area where they could collide with people in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Not using mechanically powered craft<br><b>Human behaviour that is intended to be prevented</b><br>Using mechanically powered craft<br><b>Need</b><br>People can be injured or drowned if mechanically powered craft enter an area of aquatic activity.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |



Table 5 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP010</b></p>             |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No personal water craft</b></p> |
|   | <b>Function</b><br>To prohibit the use of personal water craft (e.g. jet-ski)        |
|   | <b>Image content</b><br>Human figure, personal water craft, two wavy lines           |
| <b>Hazard</b><br>Personal water craft being in an area where they could collide with people in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Not using personal water craft<br><b>Human behaviour that is intended to be prevented</b><br>Using personal water craft<br><b>Need</b><br>People can be injured or drowned if personal water craft enter an area of aquatic activity.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |

Table 5 (continued)


|  |  |
|--|--|
|   | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP011</b></p>                                       |
|  | <b>Referent</b><br><p style="text-align: center;"><b>No towed water activity</b></p>                           |
|  | <b>Function</b><br>To prohibit towed water activity (e.g. water skiing, wakeboarding, doughnuts, banana craft) |
|  | <b>Image content</b><br>Human figure, water ski, tow rope, two wavy lines                                      |
| <b>Hazard</b><br>Water skis, wakeboards, doughnuts, banana craft or tow ropes being in an area where they could collide with people in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Not carrying out towed water activity<br><b>Human behaviour that is intended to be prevented</b><br>Carrying out towed water activity<br><b>Need</b><br>People can be injured or drowned if an activity involving towing takes place in an area of aquatic activity.<br><b>Related referents</b><br>WSW003<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.<br>The tow rope needs to extend into the exclusion zone (as specified in ISO 3864-3) in order to convey clearly the image of a continuous tow rope extending outside the visual scene portrayed. |  |

Table 5 (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSP012</b></p>                          |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>No surf craft</b></p>                        |
|  | <b>Function</b><br><p>To prohibit the use of surf craft (e.g. surfboards, surf skis, surf kayaks)</p> |
|  | <b>Image content</b><br><p>Human figure, surfboard, two wavy lines, three curved lines</p>            |
| <p><b>Hazard</b><br/>Surf craft being in an area where they could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Not using surf craft</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Using surf craft</p> <p><b>Need</b><br/>People can be injured or drowned if surf craft enter an area of aquatic activity.</p> <p><b>Related referents</b><br/>WSW004</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |   |

Table 5 (continued)


|  |  |
|--|--|
|   | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP013</b></p>         |
|  | <b>Referent</b><br><p style="text-align: center;"><b>No outdoor footwear</b></p> |
|  | <b>Function</b><br>To prohibit the wearing of outdoor footwear                   |
|  | <b>Image content</b><br>Outdoor footwear   |
| <b>Hazard</b><br>Slipping or falling or the spreading of contamination caused by the wearing of inappropriate footwear for the surface being walked upon<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Not wearing outdoor footwear or ensuring that footwear is protected by overshoes<br><b>Human behaviour that is intended to be prevented</b><br>Wearing of outdoor footwear in inappropriate areas, such as swimming pool surroundings<br><b>Need</b><br>People can injure themselves or others by falling and can cause contamination within a normally barefoot area.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety, swimming pools<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |

Table 5 (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSP014</b></p>                          |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>No jumping into water</b></p>                |
|  | <b>Function</b><br><p>To prohibit jumping into the water</p>  |
|  | <b>Image content</b><br><p>Human figure with raised arms, jumping, filled segment, two wavy lines</p> |
| <p><b>Hazard</b><br/>Being struck by person jumping into the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>No jumping into the water</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Jumping into the water</p> <p><b>Need</b><br/>People can injure or drown others when jumping into the water in an area of aquatic activity.</p> <p><b>Related referents</b><br/>—</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety, swimming pools</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |

Table 5 (continued)

|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP015</b></p>                                       |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No pushing into water</b></p>                             |
|   | <b>Function</b><br>To prohibit pushing people into the water   |
|   | <b>Image content</b><br>Two human figures, one figure pushing the other figure, filled segment, two wavy lines |
| <b>Hazard</b><br>Being struck by the person pushed into the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Not pushing people into the water<br><b>Human behaviour that is intended to be prevented</b><br>Pushing people into the water<br><b>Need</b><br>People can injure or drown others by pushing people into the water in an area of aquatic activity.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety, swimming pools<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training. |  |

Table 5 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP016</b></p>      |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No body boarding</b></p> |
|   | <b>Function</b><br>To prohibit body boarding (or boogie boarding)             |
|   | <b>Image content</b><br>Human figure, body board, two wavy lines              |
| <p><b>Hazard</b><br/>         Body boards being in an area where they could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>         No body boarding</p> <p><b>Human behaviour that is intended to be prevented</b><br/>         Body boarding</p> <p><b>Need</b><br/>         People can injure or drown others when using body boards in an area of aquatic activity.</p> <p><b>Related referents</b><br/>         —</p> <p><b>Field of application</b><br/>         Workplaces, public areas</p> <p><b>Format of application</b><br/>         Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>         In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>         Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |

Table 5 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSP017</b></p>  |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>No surfing between<br/>the red-and-yellow flags</b></p>  |
|   | <b>Function</b><br><br>To prohibit people using surf craft in designated swimming areas   |
|   | <b>Image content</b><br><br>Human figure, surfboard, two wavy lines, three curved lines, between two red-and-yellow rectangular shapes at the top of two vertical lines |
| <b>Hazard</b><br>Surf craft being in an area where they could collide with people in the water, between two red-and-yellow flags<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>No surf craft in designated swimming areas<br><b>Human behaviour that is intended to be prevented</b><br>Surf craft in designated swimming areas<br><b>Need</b><br>People can be injured or drowned if surf craft enter a designated swimming area<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activities where swimming areas and surfing may conflict, water safety, aquatic safety<br><b>Additional information</b><br>It is essential for the flags to be shown in this particular safety sign in the colours they are always used on the beach to ensure understanding of the safety message and avoid confusion with other flags. In these exceptional circumstances, the red and yellow colours of this element of the graphical symbol are shown, in addition to the normal contrast colour of black.<br><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |   |



Table 5 (continued)


|  |  |
|--|--|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSP018</b></p>                     |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>No kite surfing</b></p>                 |
|  | <b>Function</b><br><p>To prohibit kite surfing</p>   |
|  | <b>Image content</b><br><p>Human figure, surfboard, kite, two wavy lines, three curved lines</p> |
| <p><b>Hazard</b><br/>Kite surfers being in an area where they could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>No kite surfing</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Kite surfing</p> <p><b>Need</b><br/>People can be injured or drowned if struck by a kite surfer in an area of aquatic activity.</p> <p><b>Related referents</b><br/>WSP019, WSW020, WSW021</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices, safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 5 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSP019</b></p>                                 |
|   | <b>Referent</b><br><p style="text-align: center;"><b>No parasailing</b></p>                              |
|   | <b>Function</b><br>To prohibit parasailing   |
|   | <b>Image content</b><br>Human figure with parasail, tow rope, mechanically powered craft, two wavy lines |
| <b>Hazard</b><br>Parasailors and mechanically powered craft being in an area where they could collide with people on or in the water<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>No parasailing<br><b>Human behaviour that is intended to be prevented</b><br>Parasailing<br><b>Need</b><br>People can be injured or drowned if struck by a parasailor or a mechanically powered craft in an area of aquatic activity.<br><b>Related referents</b><br>WSP018, WSW020, WSW021<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices, safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |

Table 5 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSP020</b></p>                |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>No sand yachting</b></p>           |
|   | <b>Function</b><br><p>To prohibit sand yachting</p>   |
|   | <b>Image content</b><br><p>Sand yacht, sail, vertical line, horizontal line, two wheels</p> |
| <p><b>Hazard</b><br/>Sand yachts being in an area where they could collide with people on the beach</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>No sand yachting</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Sand yachting</p> <p><b>Need</b><br/>People can be injured or killed if struck by a sand yacht on a beach.</p> <p><b>Related referents</b><br/>WSW017</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices, safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |   |

Table 6 — Description and application of referent for warning signs (category W)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW001</b></p>                           |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Thin ice</b></p>                     |
|   | <b>Function</b><br><p>To warn of a hazard from going onto thin ice</p>                             |
|   | <b>Image content</b><br><p>Human figure falling, radiating pattern originating from end of leg</p> |
| <b>Hazard</b><br><p>Thin ice which people could fall through</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care when going onto thin ice</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care when going onto thin ice</p> <p><b>Need</b></p> <p>People can be injured or drowned if they fall through thin ice.</p> <p><b>Related referents</b></p> <p>—</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices and safety manuals</p> <p><b>Context of use</b></p> <p>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 6 (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW002</b></p>                |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Slipway</b></p>           |
|  | <b>Function</b><br><p>To warn of a hazard from a boat launching slipway</p>                 |
|  | <b>Image content</b><br><p>Sailing boat, wheel with bar, solid triangle, two wavy lines</p> |
| <p><b>Hazard</b><br/>Collision with a slipway or trolley being used to launch or retrieve a boat</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>People in the water taking care to avoid the slipway and sailing boats being launched</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Not taking care near slipways</p> <p><b>Need</b><br/>People can be injured or drowned by colliding with equipment or boats near slipways.</p> <p><b>Related referents</b><br/>—</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |

Table 6 (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW003</b></p>  |
|  | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Towed water activity area</b></p>                             |
|  | <b>Function</b><br>To warn of a hazard from towed water activity (e.g. water skiing, wakeboarding, doughnuts, banana craft) |
|  | <b>Image content</b><br>Human figure, water ski, tow rope, two wavy lines   |
| <b>Hazard</b><br>Water skis, wakeboards, doughnuts, banana craft or tow ropes being in an area where they could collide with people in the water   |   |
| <b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Taking care when entering an area of towed water activity  |   |
| <b>Human behaviour that is intended to be prevented</b><br>Not taking care when entering an area of towed water activity   |   |
| <b>Need</b><br>People can be injured or drowned by colliding with water skis, wakeboards, doughnuts, banana craft or tow ropes in an area of aquatic activity.   |   |
| <b>Related referents</b><br>WSP011   |   |
| <b>Field of application</b><br>Workplaces, public areas  |   |
| <b>Format of application</b><br>Safety signing, notices and safety manuals   |   |
| <b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety  |   |
| <b>Additional information</b><br>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.<br><br>The tow rope needs to extend into the exclusion zone (as specified in ISO 3864-3) in order to convey clearly the image of a continuous tow rope extending outside the visual scene portrayed. |   |

Table 6 (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW004</b></p>                                |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Surf craft area</b></p>                   |
|  | <b>Function</b><br><br><p>To warn of a hazard from surf craft (e.g. surfboards, surf skis, surf kayaks)</p> |
|  | <b>Image content</b><br><br><p>Human figure, surfboard, two wavy lines, three curved lines</p>              |
| <p><b>Hazard</b><br/>Surf craft being in an area where they could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care when entering an area of surf craft activity</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Not taking care when entering an area of surf craft activity</p> <p><b>Need</b><br/>People can be injured or drowned by colliding with surf craft in an area of aquatic activity.</p> <p><b>Related referents</b><br/>WSP012</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |

Table 6 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW005</b></p>  |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Deep water</b></p>  |
|   | <b>Function</b><br><p>To warn of a hazard from deep water</p>   |
|   | <b>Image content</b><br><p>Human figure with raised arm, single wavy line, double-ended arrow pointing between the single wavy line and a horizontal line</p> |
| <b>Hazard</b><br><p>Area of water where people could get out of their depth</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care when entering an area of deep water</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care when entering an area of deep water</p> <p><b>Need</b></p> <p>People can be injured or drowned as a result of entering deep water.</p> <p><b>Related referents</b></p> <p>—</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices, safety manuals</p> <p><b>Context of use</b></p> <p>In areas of aquatic activity, water safety, aquatic safety, swimming pools</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> <p>A supplementary text sign may be used to give the depth of water.</p> |   |



Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW006</b></p>                                   |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Shallow water (diving)</b></p>               |
|   | <b>Function</b><br><br><p>To warn of a hazard from diving into shallow water</p>                               |
|   | <b>Image content</b><br><br><p>Human figure diving, head in contact with horizontal line, single wavy line</p> |
| <p><b>Hazard</b><br/>Area of shallow water where people, if they dived, could strike the floor</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care when diving in shallow water</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Not taking care when diving in shallow water</p> <p><b>Need</b><br/>People can be injured or drowned as a result of diving into shallow water.</p> <p><b>Related referents</b><br/>WSP005, WSW007</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety, swimming pools</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW007</b></p>                               |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Submerged objects</b></p>                |
|   | <b>Function</b><br>To warn of a hazard from diving onto submerged objects in open water                |
|   | <b>Image content</b><br>Human figure diving, head and an arm in contact with objects, single wavy line |
| <b>Hazard</b><br>Area of water where people, if they dived, could strike submerged objects<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Taking care to avoid striking submerged objects<br><b>Human behaviour that is intended to be prevented</b><br>Striking submerged objects<br><b>Need</b><br>People can be injured or drowned as a result of diving into the water and striking submerged objects.<br><b>Related referents</b><br>WSP005, WSW006<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |  |

Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW008</b></p>                                       |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Sudden drop in swimming or leisure pools</b></p> |
|   | <b>Function</b><br><br><p>To warn of a hazard from sudden drop beneath water</p>                                   |
|   | <b>Image content</b><br><br><p>Human figure falling, slope, horizontal line, single wavy line</p>                  |
| <p><b>Hazard</b><br/>Drop/slope under the water where people could get out of their depth</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care to avoid sudden drops under the water or being suitably aware of the hazard</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Encountering a sudden unexpected drop under the water</p> <p><b>Need</b><br/>People can be injured or drowned when they unexpectedly encounter sudden changes in the depth of water.</p> <p><b>Related referents</b><br/>WSW024</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety, swimming pools</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW009</b></p>   |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Unprotected edges</b></p>  |
|   | <b>Function</b><br><p>To warn of a hazard from unprotected edges to an aquatic environment (e.g. at parking area, dock side)</p> |
|   | <b>Image content</b><br><p>Car falling, edge of a land mass and two wavy lines</p>   |
| <b>Hazard</b><br><p>Vehicle falling over edge</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care when driving to avoid going over an unprotected edge of an aquatic environment</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care whilst driving a vehicle on unprotected edges to the aquatic environment</p> <p><b>Need</b></p> <p>People can be injured or drowned when a vehicle is accidentally driven into the water off unprotected edges of vehicle parking areas, roads and docks.</p> <p><b>Related referents</b></p> <p>WSW010</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices and safety manuals</p> <p><b>Context of use</b></p> <p>Areas of water where vehicles can accidentally be driven into the aquatic environment</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW010</b></p>   |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Unstable cliff edge</b></p>                              |
|   | <b>Function</b><br><br><p>To warn of a hazard from unstable cliffs or cliff edges</p>                                      |
|   | <b>Image content</b><br><br><p>Human figure falling, edge of land mass, vertical line of three irregularly shaped dots</p> |
| <p><b>Hazard</b><br/>Falling off cliff</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care to avoid cliff edges</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Being near edges of cliffs</p> <p><b>Need</b><br/>People can be injured or killed when walking near cliff edges which can be unstable and therefore likely to collapse.</p> <p><b>Related referents</b><br/>WSW011</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>For use in areas where unstable cliffs exist, including construction cavities, slopes and quarries.</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 6 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW011</b></p>                                  |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Unstable cliff</b></p>                      |
|   | <b>Function</b><br><p>To warn of a hazard from rocks from unstable cliff</p>                              |
|   | <b>Image content</b><br><p>Human figure, irregularly shaped land mass, group of four irregular shapes</p> |
| <p><b>Hazard</b><br/>         Falling rocks, unstable cliffs</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>         Taking care to avoid being under cliffs that may be unstable</p> <p><b>Human behaviour that is intended to be prevented</b><br/>         Being under cliffs that may be unstable</p> <p><b>Need</b><br/>         People can be injured or killed by falling rocks from unstable cliffs.</p> <p><b>Related referents</b><br/>         WSW010</p> <p><b>Field of application</b><br/>         Workplaces, public areas</p> <p><b>Format of application</b><br/>         Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>         For use in areas where unstable cliffs exist, including construction cavities, slopes, quarries and dangerous rock faces.</p> <p><b>Additional information</b><br/>         Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |   |

Table 6 (continued)

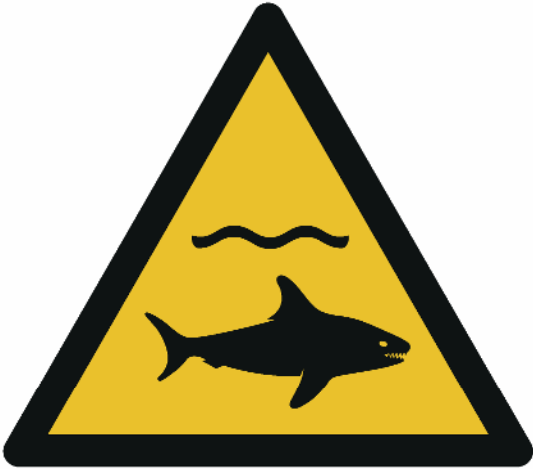
|  |  |
|--|--|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW012</b></p>     |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Sharks</b></p> |
|  | <b>Function</b><br><p>To warn of a hazard from dangerous sharks</p>              |
|  | <b>Image content</b><br><p>Shark figure, single wavy line</p>                    |
| <p><b>Hazard</b><br/>Shark attack</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care when entering the water due to the presence of dangerous sharks</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Not taking care when entering the water in shark habitats</p> <p><b>Need</b><br/>In some areas inhabited sharks (such as feeding areas), there can be a need to warn people of the presence of sharks to avoid people being injured or killed.</p> <p><b>Related referents</b><br/>—</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices and safety manuals</p> <p><b>Context of use</b><br/>For use in aquatic areas where dangerous sharks commonly inhabit waters and may attack people.</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |  |

Table 6 (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW013</b></p>                      |
|  | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Sewage effluent outfall</b></p> |
|  | <b>Function</b><br>To warn of a hazard from sewage effluent outfall                           |
|  | <b>Image content</b><br>Cylindrical shape, three curved lines, two wavy lines                 |
| <b>Hazard</b><br>Flow of discharged water and unhygienic material<br><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br>Taking care to avoid the discharge from the effluent outfall<br><b>Human behaviour that is intended to be prevented</b><br>Coming into contact with the discharge from effluent outfall<br><b>Need</b><br>People could suffer ill-health from contact with the effluent or could be injured or drowned when caught in an effluent discharge.<br><b>Related referents</b><br>—<br><b>Field of application</b><br>Workplaces, public areas<br><b>Format of application</b><br>Safety signing, notices and safety manuals<br><b>Context of use</b><br>In areas of aquatic activity, water safety, aquatic safety<br><b>Additional information</b><br>The discharging pipe and ground may be dry.<br>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required. |   |



Table 6 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW014</b></p>                  |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Tsunami hazard zone</b></p> |
|   | <b>Function</b><br><br><p>To warn of a hazard from tsunami waves</p>                          |
|   | <b>Image content</b><br><br><p>Rolling shape of a tsunami wave</p>                            |
| <p><b>Hazard</b><br/>Tsunami wave originating from an ocean floor seismic event in which people could be caught</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Evacuation from coastal/beach zone towards higher ground inland in the event of an earthquake or when a tsunami warning has been issued</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Remaining in the coastal/beach zone or running into the sea or wrong direction when a tsunami warning has been issued</p> <p><b>Need</b><br/>Although tsunami mitigation plans have been prepared and are available to civil protection agencies, they shall be complemented by signs that warn the population in zones that will be specifically affected in the case of a tsunami event (inundation areas). The population should immediately leave this zone in case of an earthquake. People can be injured or drowned and they need to be warned of potential danger.</p> <p><b>Related referents</b><br/>WSE002, WSE003, WSW023</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Multiple signs in relevant coastal/beach zones and evacuation routes, notices, safety manuals</p> <p><b>Context of use</b><br/>In tsunami hazard zones. The tsunami hazard zone sign should be complemented by WSE002 or WSE003 that provide directions towards a safe area/evacuation area or tsunami evacuation building, respectively.</p> <p><b>Additional information</b><br/>This water safety sign has been the subject of extensive research by the Japanese Government and has also been requested by UNESCO as part of an overall approach to a management strategy designed to mitigate the disastrous effects of a tsunami wave. The design selected has received the best comprehension results and is specific to the special circumstances of the tsunami hazard. Supplementary text shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.<br/><br/>The particular circumstances of the tsunami wave and its nature as a vast volume of water indicated that, for exceptional reasons, the "exclusion zone" (as specified in ISO 3864-3) should be entered to gain the best comprehension test results.</p> |   |

Table 6 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW015</b></p>                                      |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Strong currents</b></p>                         |
|   | <b>Function</b><br><p>To warn of the hazard from strong currents</p>  |
|   | <b>Image content</b><br><p>Upper body of a human figure with arms raised, two wavy lines with arrow heads</p> |
| <b>Hazard</b><br><p>Strong currents hazardous to people undertaking aquatic activity</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care when entering the water where there can be strong currents</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care when entering the water where there can be strong currents</p> <p><b>Need</b></p> <p>People can be injured or drowned if they are caught by strong currents.</p> <p><b>Related referents</b></p> <p>—</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices, safety manuals</p> <p><b>Context of use</b></p> <p>In areas of aquatic activity, water safety, aquatic safety. In areas of water identified as having strong currents.</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |

Table 6 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW016</b></p>  |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Boating area</b></p>  |
|   | <b>Function</b><br><br><p>To warn of a hazard from boats (e.g. manually powered craft, mechanically powered craft, sailing craft)</p> |
|   | <b>Image content</b><br><br><p>Bow of boat with anchor, upper body of human figure with arms raised, two wavy lines</p>               |
| <p><b>Hazard</b><br/>Boats could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care when entering areas where there is boat activity</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Not taking care when entering areas where there is boat activity</p> <p><b>Need</b><br/>People can be injured or drowned if struck by boats.</p> <p><b>Related referents</b><br/>WSW004</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices, safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |   |

Table 6 (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW017</b></p>                    |
|  | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Sand yachting</b></p>         |
|  | <b>Function</b><br><p>To warn of a hazard from sand yachting</p>                            |
|  | <b>Image content</b><br><p>Sand yacht, sail, vertical line, horizontal line, two wheels</p> |
| <p><b>Hazard</b><br/>         Sand yachts could collide with people on the beach</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>         Taking care when entering areas where there is sand yachting</p> <p><b>Human behaviour that is intended to be prevented</b><br/>         Not taking care when entering areas where there is sand yachting</p> <p><b>Need</b><br/>         People can be injured or killed if struck by a sand yacht.</p> <p><b>Related referents</b><br/>         WSP020</p> <p><b>Field of application</b><br/>         Workplaces, public areas</p> <p><b>Format of application</b><br/>         Safety signing, notices, safety manuals</p> <p><b>Context of use</b><br/>         In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>         Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |

Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW018</b></p>                                 |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Incoming tides</b></p>                     |
|   | <b>Function</b><br><br><p>To warn of the hazard of being trapped by incoming tides</p>                       |
|   | <b>Image content</b><br><br><p>Human figure with arms raised standing between a high land mass and waves</p> |
| <p><b>Hazard</b><br/>Incoming tides that could cause people to become trapped</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care when entering areas which could be cut off by incoming tides</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Not taking care when entering areas which could be cut off by incoming tides</p> <p><b>Need</b><br/>People can be injured or drowned if they become trapped by incoming tides.</p> <p><b>Related referents</b><br/>—</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices, safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety. In locations where incoming tides cut off egress.</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW019</b></p>   |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Quicksand<br/>         or mud/deep mud or silt</b></p> |
|   | <b>Function</b><br><p>To warn of the hazard of quicksand or mud</p>  |
|   | <b>Image content</b><br><p>Upper body of a human figure with arms raised, solid mass</p>                             |
| <b>Hazard</b><br><p>Quicksand or deep mud in which people could become trapped</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care when entering areas of quicksand or mud</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care when entering areas where there is quicksand or mud</p> <p><b>Need</b></p> <p>People are at risk of injury or drowning if they become trapped in quicksand or mud.</p> <p><b>Related referents</b></p> <p>—</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices, safety manuals</p> <p><b>Context of use</b></p> <p>In areas of aquatic activity, water safety, aquatic safety. In locations of quicksand and mud.</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 6 (continued)


|  |  |
|--|--|
|   | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW020</b></p>                       |
|  | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Kite surfing</b></p>             |
|  | <b>Function</b><br><br><p>To warn of a hazard from kite surfing</p>                                |
|  | <b>Image content</b><br><br><p>Human figure, surfboard, kite, two wavy lines, two curved lines</p> |
| <p><b>Hazard</b><br/>Kite surfers could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>Taking care when entering areas where there is kite surfing</p> <p><b>Human behaviour that is intended to be prevented</b><br/>Not taking care when entering areas where there is kite surfing</p> <p><b>Need</b><br/>People can be injured or drowned if struck by a kite surfer.</p> <p><b>Related referents</b><br/>WSP018, WSP019, WSW021</p> <p><b>Field of application</b><br/>Workplaces, public areas</p> <p><b>Format of application</b><br/>Safety signing, notices, safety manuals</p> <p><b>Context of use</b><br/>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 6 (continued)


|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW021</b></p>  |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Parasailing</b></p>                               |
|   | <b>Function</b><br><p>To warn of a hazard from parasailing</p>  |
|   | <b>Image content</b><br><p>Human figure with parasail, tow rope, mechanically powered craft, two wavy lines</p> |
| <b>Hazard</b><br><p>Parasailors and mechanically powered craft could collide with people in the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care when entering areas where there is parasailing</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care when entering areas where there is parasailing</p> <p><b>Need</b></p> <p>People can be injured or drowned if struck by a parasailor or by a mechanically powered craft.</p> <p><b>Related referents</b></p> <p>WSP018, WSP019, WSW020</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices, safety manuals</p> <p><b>Context of use</b></p> <p>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |



Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW022</b></p>           |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Strong winds</b></p> |
|   | <b>Function</b><br><br><p>To warn of the hazard of strong winds</p>                    |
|   | <b>Image content</b><br><br><p>Windsock, two ropes, vertical line</p>                  |
| <p><b>Hazard</b></p> <p>Strong winds can sweep people on or in the water away from the shore</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care when going out on, or into, the water when there are strong winds</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care when going out on, or into, the water when there are strong winds</p> <p><b>Need</b></p> <p>People can be injured or drowned if they are swept away from the shore by strong winds.</p> <p><b>Related referents</b></p> <p>—</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices, safety manuals</p> <p><b>Context of use</b></p> <p>In areas of aquatic activity, water safety, aquatic safety. In locations where there strong winds and a flag is not able to be displayed.</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 6 (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW023</b></p>   |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; High surf<br/>         or large breaking waves</b></p> |
|   | <b>Function</b><br><p>To warn of the hazard of high surf or large breaking waves</p>                                 |
|   | <b>Image content</b><br><p>Wave with a high rolling shape above human figure falling backwards</p>                   |
| <b>Hazard</b><br><p>Large, rapidly moving mass of water in which people could be caught</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b><br/>         Taking care when entering the water or getting too close to the water's edge, when there are large breaking waves</p> <p><b>Human behaviour that is intended to be prevented</b><br/>         Not taking care when entering the water or being near the water's edge, when there are large breaking waves</p> <p><b>Need</b><br/>         People can be injured or drowned if they are caught by large breaking waves.</p> <p><b>Related referents</b><br/>         WSW014</p> <p><b>Field of application</b><br/>         Workplaces, public areas</p> <p><b>Format of application</b><br/>         Safety signing, notices, safety manuals</p> <p><b>Context of use</b><br/>         In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b><br/>         Test data obtained according to ISO 9186-1 are not available from more than one country. Findings from national testing, however, showed that in one country the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |  |

Table 6 (continued)



|   |   |
|---|---|
|    | <b>Reference No.</b><br><br><p style="text-align: center;"><b>WSW024</b></p>                  |
|   | <b>Referent</b><br><br><p style="text-align: center;"><b>Warning; Deep shelving beach</b></p> |
|   | <b>Function</b><br><br><p>To warn of a hazard from a sudden drop under the water</p>          |
|   | <b>Image content</b><br><br><p>Human figure falling, edge of a land mass, six wavy lines</p>  |
| <p><b>Hazard</b></p> <p>Sudden drop to deep water at the edge of a land mass, such as a beach, where people could fall unexpectedly because of the sudden change in the depth of the water</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care to avoid sudden drops under the water or, being aware of these, taking suitable action when approaching them</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Encountering a sudden unexpected drop under the water</p> <p><b>Need</b></p> <p>People can be injured or drowned if they unexpectedly encounter a sudden drop under the water and lose their footing and fall.</p> <p><b>Related referents</b></p> <p>WSW008</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices, safety manuals</p> <p><b>Context of use</b></p> <p>In areas of aquatic activity, water safety, aquatic safety</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign shall be used to increase comprehension except when the safety sign is supplemented by manuals, instructions or training.</p> |   |

Table 6 (continued)

|   |   |
|---|---|
|    | <b>Reference No.</b><br><p style="text-align: center;"><b>WSW025</b></p>                                |
|   | <b>Referent</b><br><p style="text-align: center;"><b>Warning; Crocodiles, alligators or caymans</b></p> |
|   | <b>Function</b><br><p>To warn of a hazard from crocodiles, alligators or caymans</p>                    |
|   | <b>Image content</b><br><p>Reptile head with open jaws, dot, two wavy lines</p>                         |
| <b>Hazard</b><br><p>Crocodile, alligator or cayman attack</p> <p><b>Human behaviour that is intended to be caused after understanding the safety sign's meaning</b></p> <p>Taking care in areas where crocodiles, alligators or caymans can be present</p> <p><b>Human behaviour that is intended to be prevented</b></p> <p>Not taking care in areas where crocodiles, alligators or caymans can be present</p> <p><b>Need</b></p> <p>People can be injured or killed if they are caught by crocodiles, alligators or caymans.</p> <p><b>Related referents</b></p> <p>—</p> <p><b>Field of application</b></p> <p>Workplaces, public areas</p> <p><b>Format of application</b></p> <p>Safety signing, notices, safety manuals</p> <p><b>Context of use</b></p> <p>For use in aquatic areas where crocodiles, alligators or caymans commonly inhabit waters and may attack people.</p> <p><b>Additional information</b></p> <p>Test data obtained according to ISO 9186-1 are available from more than one country. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. If the safety sign is supplemented by manuals, instructions or training, a supplementary text sign may not be required.</p> |   |

# National Annex NA (informative)

## Additional BS registered water safety signs

### NA.1 Scope

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

The whole of this standard and national annex is applicable to safety signs for use at locations in, on and near water; in coastal and inland waters (including navigational waters); and in all types of swimming pools. These locations include the following:

- indoor and outdoor swimming pools;
- paddling pools;
- harbours, docks, marinas;
- beaches, piers, landing stages, fishing points, bridges over water;
- Quarries, industrial and construction sites, agricultural areas;
- water tanks;
- rivers, canals, estuaries, lakes, reservoirs, ponds.

The standard is also applicable to water safety signs relevant to sport and recreational activities.

### NA.2 Referents and categorization of water safety signs

#### NA.2.1 General

The summaries in NA 2.2 and NA 2.3 are provided to facilitate the search for additional BS registered water safety signs.

#### NA.2.2 Referent (safety meaning)

Table NA.1 gives the list of referents in alphabetical order and provides the water safety sign functional reference number.

Table NA.1 Summary of referents by alphabetical order

| Referent (safety meaning)                   | Functional reference number |
|---|-----------------------------|
| Artificial waterfall/water cascade, warning | WSW311.BS                   |
| Diving area, warning                        | WSW301.BS                   |
| Do not create wash / no speeding            | WSP303.BS                   |
| Ferries/crossing vessels                    | WSW316.BS                   |
| Geyser (water/air)/water jet, warning       | WSW309.BS                   |
| Grounding cruiser on lock cill, warning     | WSW314.BS                   |
| Grounding narrow boat on lock cill, warning | WSW313.BS                   |
| Grounding on weir, warning                  | WSW315.BS                   |
| Inflatables, warning                        | WSW317.BS                   |
| Manually powered craft, warning             | WSW304.BS                   |
| Motorized craft, warning                    | WSW305.BS                   |

Table NA.1 Summary of referents by alphabetical order (continued)

| Referent (safety meaning)           | Functional reference number |
|-------------------------------------|-----------------------------|
| No fishing                          | WSP302.BS                   |
| No inflatables in the water         | WSP301.BS                   |
| No U-turns                          | WSP304.BS                   |
| Sailing area, warning               | WSW302.BS                   |
| Secure tow hitch                    | WSM301.BS                   |
| Shower before entering              | WSM303.BS                   |
| Sloping bottom, warning             | WSW307.BS                   |
| Strong river flows, warning         | WSW303.BS                   |
| Submerged step or steps, warning    | WSW306.BS                   |
| Swimming area, warning              | WSW308.BS                   |
| Use navigation lights               | WSM302.BS                   |
| Water cannon, warning               | WSW312.BS                   |
| Water fountain/water plume, warning | WSW310.BS                   |

### NA.2.3 Categorization of water safety signs

Water safety signs are categorized according to their function as follows:

- E is the category for signs indicating an evacuation route, the location of safety equipment or a safety facility, or a safety action (safe condition signs);
- M is the category for mandatory action signs;
- P is the category for prohibition signs;
- W is the category for warning signs.

Table NA.2 summarizes the registered safety signs in terms of safety sign category in accordance with BS ISO 3864-1.

### NA.3 Additional BS registered water safety signs

Tables NA.3 to NA.6 give safety sign originals in a uniform 70 mm size with corner marks to enable accurate enlargement and reduction scaling. The sign illustrations are shown without borders in order to allow for consistent reproduction scaling, though a border can be useful to achieve a luminance contrast between the safety sign and its background when mounted or displayed. The safety signs should be reproduced exactly as shown in Tables NA.3 to NA.6.

In cases where the orientation of the symbol is not essential to the meaning of the safety sign, the graphical symbol may be reproduced in a mirrored form. For prohibition signs, it is essential that the prohibition bar does not obscure significant details of the graphical symbol.

*NOTE The graphical symbol is the complete image containing all the graphical symbol elements as shown in the registered water safety sign.*

Tables NA.3 to NA.6 present the water safety sign originals according to their category as follows:

- E Signs indicating an evacuation route, the location of safety equipment or a safety facility, or a safety action (safe condition signs) see Table NA.3
- M Mandatory action signs see Table NA.4
- P Prohibition signs see Table NA.5
- W Warning signs see Table NA.6

Tables NA.3 to NA.6 also give a description of the application for each safety sign.

Table NA.2 Summary of all water safety signs












| Safety sign,<br>reference number<br>and referent        | Category   |   |  |  |
|---|--|---|--|--|
|   | E  | M   | P  | W  |
|   | Evacuation route,<br>location of safety<br>equipment or<br>safety facility,<br>safety action (safe<br>condition signs) | Mandatory action<br>signs   | Prohibition signs  | Warning signs  |
| <p>Safety sign</p> <p>Reference number<br/>Referent</p> | <p>WSE301.BS</p>   |  <p>WSM301.BS<br/>Secure tow hitch</p>             |  <p>WSP301.BS<br/>No inflatables on<br/>the water</p>      |  <p>WSW301.BS<br/>Warning; Diving<br/>area</p>              |
| <p>Safety sign</p> <p>Reference number<br/>Referent</p> | <p>WSE302.BS</p>   |  <p>WSM302.BS<br/>Use navigation<br/>lights</p>   |  <p>WSP302.BS<br/>No fishing</p>                          |  <p>WSW302.BS<br/>Warning; Sailing<br/>area</p>            |
| <p>Safety sign</p> <p>Reference number<br/>Referent</p> | <p>WSE303.BS</p>   |  <p>WSM303.BS<br/>Shower before<br/>entering</p> |  <p>WSP303.BS<br/>Do not create<br/>wash/no speeding</p> |  <p>WSW303.BS<br/>Warning; Strong<br/>river flows</p>     |
| <p>Safety sign</p> <p>Reference number<br/>Referent</p> | <p>—</p>   | <p>—</p>  |  <p>WSP304.BS<br/>No U-turns</p>                         |  <p>WSW304.BS<br/>Warning; Manually<br/>powered craft</p> |

Table NA.2 Summary of all water safety signs (continued)






| Safety sign,<br>reference number<br>and referent | Category   |                           |  |   |
|--|--|---------------------------|--|---|
|  | E  | M                         | P  | W   |
|  | Evacuation route,<br>location of safety<br>equipment or<br>safety facility,<br>safety action (safe<br>condition signs) | Mandatory action<br>signs | Prohibition signs  | Warning signs   |
| Safety sign                                      | —  | —                         |  |    |
| Reference number                                 | —  | —                         | WSP305.BS  | WSW305.BS   |
| Referent   | —  | —                         | Do not drink<br>alcohol  | Warning;<br>Motorized craft   |
| Safety sign                                      | —  | —                         |  |   |
| Reference number                                 | —  | —                         | WSP306.BS  | WSW306.BS   |
| Referent   | —  | —                         |  | Warning;<br>Submerged step or<br>steps  |
| Safety sign                                      | —  | —                         |  |  |
| Reference number                                 | —  | —                         | WSP307.BS  | WSW307.BS   |
| Referent   | —  | —                         |  | Warning; Sloping<br>bottom  |
| Safety sign                                      | —  | —                         |  |  |
| Reference number                                 | —  | —                         | WSP308.BS  | WSW308.BS   |
| Referent   | —  | —                         |  | Warning;<br>Swimming area   |



Table NA.2 Summary of all water safety signs (continued)





| Safety sign,<br>reference number<br>and referent | Category   |                           |                   |   |
|--|--|---------------------------|-------------------|---|
|  | E  | M                         | P                 | W   |
|  | Evacuation route,<br>location of safety<br>equipment or<br>safety facility,<br>safety action (safe<br>condition signs) | Mandatory action<br>signs | Prohibition signs | Warning signs   |
| Safety sign                                      | —  | —                         |                   |    |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP309.BS         | WSW309.BS<br>Warning; Geyser<br>(water/air)/water<br>jet                              |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP310.BS         | WSW310.BS<br>Warning; Water<br>fountain/water<br>plume                                |
| Safety sign                                      | —  | —                         |                   |  |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP311.BS         | WSW311.BS<br>Warning; Artificial<br>waterfall/water<br>cascade                        |
| Safety sign                                      | —  | —                         |                   |  |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP312.BS         | WSW312.BS<br>Warning; Water<br>cannon   |

Table NA.2 Summary of all water safety signs (continued)





| Safety sign,<br>reference number<br>and referent | Category   |                           |                   |   |
|--|--|---------------------------|-------------------|---|
|  | E  | M                         | P                 | W   |
|  | Evacuation route,<br>location of safety<br>equipment or<br>safety facility,<br>safety action (safe<br>condition signs) | Mandatory action<br>signs | Prohibition signs | Warning signs   |
| Safety sign                                      | —  | —                         |                   |    |
| Reference number<br>Referent                     | —  | —                         | WSP313.BS         | WSW313.BS<br>Warning;<br>Grounding narrow<br>boat on lock cill                        |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP314.BS         | WSW314.BS<br>Warning;<br>Grounding cruiser<br>on lock cill                            |
| Safety sign                                      | —  | —                         |                   |  |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP315.BS         | WSW315.BS<br>Warning;<br>Grounding on<br>weir   |
| Safety sign                                      | —  | —                         |                   |  |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP316.BS         | WSW316.BS<br>Warning;<br>Ferries/crossing<br>vessels                                  |

Table NA.2 Summary of all water safety signs (continued)


| Safety sign,<br>reference number<br>and referent | Category   |                           |                   |   |
|--|--|---------------------------|-------------------|---|
|  | E  | M                         | P                 | W   |
|  | Evacuation route,<br>location of safety<br>equipment or<br>safety facility,<br>safety action (safe<br>condition signs) | Mandatory action<br>signs | Prohibition signs | Warning signs   |
| Safety sign                                      | —  | —                         |                   |  |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP317.BS         | WSW317.BS<br>Warning;<br>Inflatables  |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP318.BS         | WSW318.BS<br>Warning;   |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP319.BS         | WSW319.BS<br>Warning;   |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP320.BS         | WSW320.BS<br>Warning;   |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP321.BS         | WSW321.BS<br>Warning;   |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP322.BS         | WSW322.BS<br>Warning;   |
| Safety sign                                      | —  | —                         |                   |   |
| Reference number<br>Referent                     | —<br>—   | —<br>—                    | WSP323.BS         | WSW323.BS<br>Warning;   |

Table NA.2 Summary of all water safety signs (continued)

| Safety sign,<br>reference number<br>and referent | Category   |                           |                   |               |
|--|--|---------------------------|-------------------|---------------|
|  | E  | M                         | P                 | W             |
|  | Evacuation route,<br>location of safety<br>equipment or<br>safety facility,<br>safety action (safe<br>condition signs) | Mandatory action<br>signs | Prohibition signs | Warning signs |
| Safety sign                                      | —  | —                         |                   |               |
| Reference number                                 | —  | —                         | WSP324.BS         | WSW324.BS     |
| Referent   | —  | —                         |                   | Warning;      |
| Safety sign                                      | —  | —                         |                   |               |
| Reference number                                 | —  | —                         | WSP325.BS         | WSW325.BS     |
| Referent   | —  | —                         |                   | Warning;      |

Table NA.3 Description and application of referent for signs indicating an evacuation route, the location of safety equipment or a safety facility, or a safety action (safe condition signs) (category E)

|   |                         |
|---|-------------------------|
|   | Reference No. WSE301.BS |
|   | Referent                |
|   | Function                |
|   | Image content           |
| Hazard  |                         |
| Human behaviour that is intended to be cause by understanding of the meaning of the safety sign |                         |
| Related safety signs  |                         |
| Additional information  |                         |

Table NA.4 Description and application of referent for mandatory action signs (category M)


|  |                      |  |
|--|----------------------|--|
|   | <b>Reference No.</b> | WSM301.BS  |
|  | <b>Referent</b>      | Secure tow hitch   |
|  | <b>Function</b>      | To signify that the watercraft tow hitch has to be secured to the towing vehicle   |
|  | <b>Image content</b> | Horizontal bar with horizontal bar and circular lobe protruding into a wider horizontal bar with top left-hand corner curved |
| <b>Hazard</b>  |                      |  |
| Watercraft not being attached securely to towing vehicle   |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>  |                      |  |
| Vehicle drivers check that the watercraft tow hitch is secure before moving off  |                      |  |
| <b>Related safety signs</b>  |                      |  |
| <b>Additional information</b>  |                      |  |
| Displayed on signs at water access points, including slipways  |                      |  |
| Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.4 Description and application of referent for mandatory action signs (category M) (continued)


|   |                      |   |
|---|----------------------|---|
|    | <b>Reference No.</b> | WSM302.BS   |
|   | <b>Referent</b>      | Use navigation lights   |
|   | <b>Function</b>      | To signify that the navigation lights have to be used when light levels are low and/or visibility is poor |
|   | <b>Image content</b> | Semi-circle/lamp and three radiating lines  |
| <b>Hazard</b>   |                      |   |
| Collisions involving watercraft not using/displaying navigation lights  |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>   |                      |   |
| Watercraft users use the navigation lights when light levels are low or visibility is poor  |                      |   |
| <b>Related safety signs</b>   |                      |   |
| <b>Additional information</b>   |                      |   |
| <p>Displayed on signs at water access points, such as slipways.</p> <p>Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension.</p> |                      |   |

Table NA.4 Description and application of referent for mandatory action signs (category M) (continued)

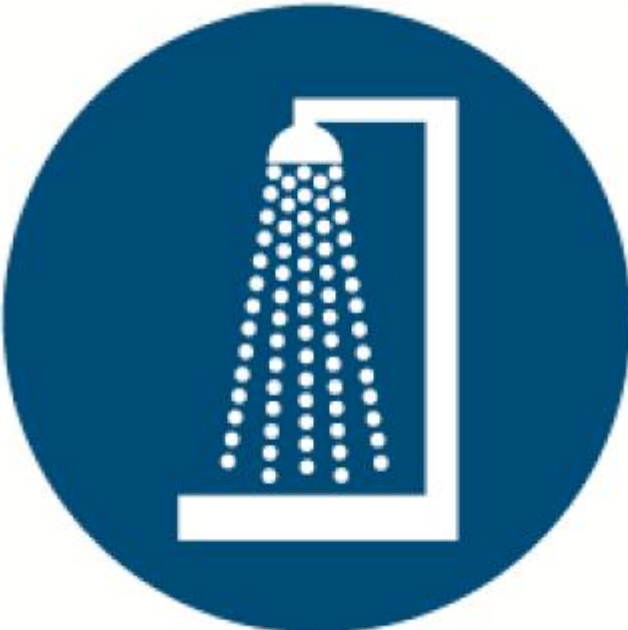
|  |                      |  |
|--|----------------------|--|
|   | <b>Reference No.</b> | WSM303.BS  |
|  | <b>Referent</b>      | Shower before entering   |
|  | <b>Function</b>      | To signify that a shower has to be used before entering the swimming or leisure pool |
|  | <b>Image content</b> | Spray of droplets of water falling from a shower head; shower wall and floor         |
| <b>Hazard</b>  |                      |  |
| Infection and disease being spread through contamination   |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>  |                      |  |
| Using the shower before entering   |                      |  |
| <b>Related safety signs</b>  |                      |  |
| <b>Additional information</b>  |                      |  |
| Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.5 Description and application of referent for prohibition signs (category P)


|  |                      |   |
|--|----------------------|---|
|   | <b>Reference No.</b> | WSP301.BS                                       |
|  | <b>Referent</b>      | No inflatables on the water                     |
|  | <b>Function</b>      | To prohibit inflatables being used on the water |
|  | <b>Image content</b> | Inflatable, two wavy lines                      |
| <p><b>Hazard</b><br/>Inflatables being in a water area where they could be blown offshore by strong winds or strong currents</p>   |                      |   |
| <p><b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b><br/>Not using inflatables on water</p>                                    |                      |   |
| <p><b>Related safety signs</b><br/>BS ISO 20712-1 WSW022</p>   |                      |   |
| <p><b>Additional information</b><br/>Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension.</p> |                      |   |



Table NA.5 Description and application of referent for prohibition signs (category P) (continued)

|  |                      |   |
|--|----------------------|---|
|   | <b>Reference No.</b> | WSP302.BS   |
|  | <b>Referent</b>      | No fishing  |
|  | <b>Function</b>      | To prohibit fishing   |
|  | <b>Image content</b> | Human figure on seat, fishing rod and line with fish, straight line, two wavy lines |
| <b>Hazard</b><br>Fishing lines coming into contact with power lines or other hazards. People being injured by fishing lines, hooks, etc.                                     |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b><br>Not fishing   |                      |   |
| <b>Related safety signs</b>  |                      |   |
| <b>Additional information</b><br>Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |   |

Table NA.5 Description and application of referent for prohibition signs (category P) (continued)


|   |                      |  |
|---|----------------------|--|
|    | <b>Reference No.</b> | WSP303.BS  |
|   | <b>Referent</b>      | Do not create wash/no speeding   |
|   | <b>Function</b>      | To prohibit craft speeding and creating excessive wash                         |
|   | <b>Image content</b> | Front view of craft, upper bodies of two human figures, four curved wavy lines |
| <b>Hazard</b>   |                      |  |
| Wash created by speeding craft  |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>                                     |                      |  |
| Not speeding  |                      |  |
| <b>Related safety signs</b>   |                      |  |
| <b>Additional information</b>   |                      |  |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.5 Description and application of referent for prohibition signs (category P) (continued)


|   |                      |   |
|---|----------------------|---|
|    | <b>Reference No.</b> | WSP304.BS                                   |
|   | <b>Referent</b>      | No U-turns                                  |
|   | <b>Function</b>      | To prohibit craft U-turning                 |
|   | <b>Image content</b> | Arrow with triangular head and curved shaft |
| <b>Hazard</b>   |                      |   |
| Grounding or overturning craft  |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>                                     |                      |   |
| Not U-turning   |                      |   |
| <b>Related safety signs</b>   |                      |   |
| <b>Additional information</b>   |                      |   |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |   |

Table NA.6 Description and application of referent for warning signs (category W)


|   |                      |  |
|---|----------------------|--|
|    | <b>Reference No.</b> | WSW301.BS  |
|   | <b>Referent</b>      | Warning; Diving area                               |
|   | <b>Function</b>      | To warn of the hazard of divers entering the water |
|   | <b>Image content</b> | Human figure diving, two wavy lines                |
| <b>Hazard</b>   |                      |  |
| Divers colliding with other water users   |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>                                     |                      |  |
| Taking care when in the water to avoid being hit by people diving in the vicinity   |                      |  |
| <b>Related safety signs</b>   |                      |  |
| BS ISO 20712-1 WSP005   |                      |  |
| <b>Additional information</b>   |                      |  |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|   |                      |  |
|---|----------------------|--|
|    | <b>Reference No.</b> | WSW302.BS                              |
|   | <b>Referent</b>      | Warning; Sailing area                  |
|   | <b>Function</b>      | To warn of a hazard from sailing boats |
|   | <b>Image content</b> | Sailing craft, two wavy lines          |
| <b>Hazard</b>   |                      |  |
| Sailing boats colliding with people in the water  |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>                                     |                      |  |
| Taking care when entering areas where there is sailing boat activity  |                      |  |
| <b>Related safety signs</b>   |                      |  |
| BS ISO 20712-1 WSP006   |                      |  |
| <b>Additional information</b>   |                      |  |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |                      |  |
|--|----------------------|--|
|   | <b>Reference No.</b> | <b>WSW303.BS</b>   |
|  | <b>Referent</b>      | <b>Warning; Strong river flows</b>                           |
|  | <b>Function</b>      | To warn of the hazard of strong river flows                  |
|  | <b>Image content</b> | Triangular shape<br>arrow, curved shaft,<br>eight wavy lines |
| <b>Hazard</b><br>Strong river flows  |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b><br>Taking care when entering the water where there can be strong river flows |                      |  |
| <b>Related safety signs</b><br>BS ISO 20712-1 WSW015   |                      |  |
| <b>Additional information</b><br>Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension.         |                      |  |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |                      |   |
|--|----------------------|---|
|   | <b>Reference No.</b> | <b>WSW304.BS</b>  |
|  | <b>Referent</b>      | <b>Warning; Manually powered craft</b>  |
|  | <b>Function</b>      | To warn of a hazard from manually powered craft in the water (e.g. rowing, sculling, paddling, punting) |
|  | <b>Image content</b> | Human figure, rowing boat, oar, two wavy lines  |
| <b>Hazard</b>  |                      |   |
| Manually powered craft colliding with people in the water  |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>  |                      |   |
| Taking care when entering an area of manually powered craft activity   |                      |   |
| <b>Related safety signs</b>  |                      |   |
| BS ISO 20712-1 WSP008  |                      |   |
| <b>Additional information</b>  |                      |   |
| Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. |                      |   |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |                      |   |
|--|----------------------|---|
|   | <b>Reference No.</b> | <b>WSW305.BS</b>                                      |
|  | <b>Referent</b>      | <b>Warning;<br/>Motorized craft</b>                   |
|  | <b>Function</b>      | To warn of a hazard from motorized craft in the water |
|  | <b>Image content</b> | Motorized craft, two wavy lines                       |
| <p><b>Hazard</b><br/>Motorized craft colliding with people in the water</p>  |                      |   |
| <p><b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b><br/>Taking care when entering an area of motorized craft activity</p>     |                      |   |
| <p><b>Related safety signs</b><br/>BS ISO 20712-1 WSP009</p>   |                      |   |
| <p><b>Additional information</b><br/>Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension.</p> |                      |   |



Table NA.6 Description and application of referent for warning signs (category W) (continued)


|   |                      |  |
|---|----------------------|--|
|    | <b>Reference No.</b> | WSW306.BS  |
|   | <b>Referent</b>      | <b>Warning;<br/>Submerged step<br/>or steps</b>    |
|   | <b>Function</b>      | To warn of a hazard from a submerged step or steps |
|   | <b>Image content</b> | Human figure, two steps, single wavy line          |
| <b>Hazard</b>   |                      |  |
| Submerged step, or steps  |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>   |                      |  |
| Taking care to avoid submerged steps, or walking up or down them carefully  |                      |  |
| <b>Related safety signs</b>   |                      |  |
| BS ISO 20712-1 WSW008, WSW307.BS  |                      |  |
| <b>Additional information</b>   |                      |  |
| Used in swimming and leisure pools. Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.6 Description and application of referent for warning signs (category W) (continued)

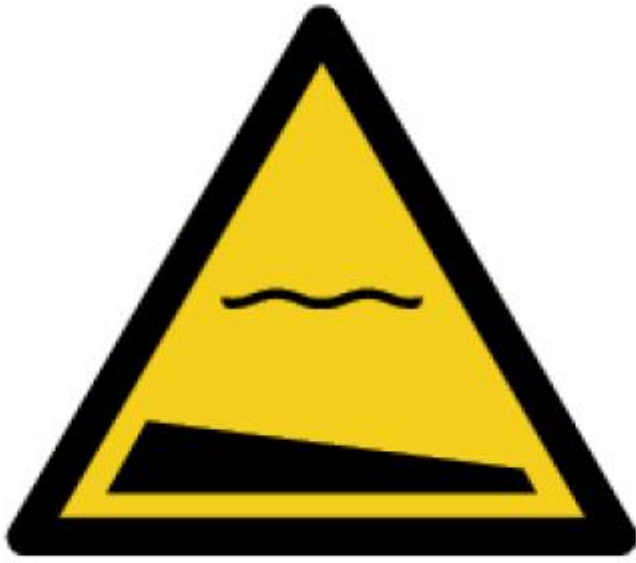
|  |                      |  |
|--|----------------------|--|
|   | <b>Reference No.</b> | WSW307.BS  |
|  | <b>Referent</b>      | <b>Warning; Sloping bottom</b>   |
|  | <b>Function</b>      | To warn of a hazard from a gradual change in depth of water caused by the sloping surface of the pool bottom |
|  | <b>Image content</b> | Solid wedge shape, single wavy line  |
| <b>Hazard</b>  |                      |  |
| Change in the depth of the water   |                      |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>  |                      |  |
| People to be aware of a sloping bottom and taking care not to get out of their depth   |                      |  |
| <b>Related safety signs</b>  |                      |  |
| BS ISO 2071-1 WSW008 WSW306.BS   |                      |  |
| <b>Additional information</b>  |                      |  |
| Requirement of HSE Guidance HSG179 Used in swimming and leisure pools.   |                      |  |
| Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |                      |   |
|--|----------------------|---|
|   | <b>Reference No.</b> | WSW308.BS   |
|  | <b>Referent</b>      | Warning;<br>Swimming area                           |
|  | <b>Function</b>      | To warn of the hazard of swimmers being in the area |
|  | <b>Image content</b> | Swimmer, two wavy lines                             |
| <b>Hazard</b>  |                      |   |
| Swimmers being struck by boats/craft   |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>  |                      |   |
| Operators of boats/craft taking care when entering an area where there can be swimmers   |                      |   |
| <b>Related safety signs</b>  |                      |   |
| BS ISO 20712-1 WSP002  |                      |   |
| <b>Additional information</b>  |                      |   |
| Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol exceeded the criteria of acceptability. A supplementary text sign may be used to increase comprehension. |                      |   |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |  |
|--|--|
|   | <b>Reference No.</b> WSW309.BS   |
|  | <b>Referent</b> Warning; Geyser (water/air)/water jet  |
|  | <b>Function</b> To warn of the hazard from an underwater geyser  |
|  | <b>Image content</b> Single wavy line, large and small dots, two wavy arrows, horizontal line with small indentation |
| <b>Hazard</b><br>Sudden water turbulence   |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b><br>Taking care when in the vicinity of underwater geysers  |  |
| <b>Related safety signs</b>  |  |
| <b>Additional information</b><br>Used in swimming and leisure pools, either recreational or therapeutic.<br>Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension. |  |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |                      |  |
|--|----------------------|--|
|   | <b>Reference No.</b> | WSW310.BS  |
|  | <b>Referent</b>      | Warning; Water fountain/water plume                            |
|  | <b>Function</b>      | To warn of the hazard from a water fountain                    |
|  | <b>Image content</b> | Two wavy lines broken in the centre with curved lines and dots |
| <b>Hazard</b>  |                      |  |
| Sudden water turbulence  |                      |  |
| <b>Human behaviour that is intended to be cause by understanding of the meaning of the safety sign</b>   |                      |  |
| Taking care when in the vicinity of water plumes   |                      |  |
| <b>Related safety signs</b>  |                      |  |
| <b>Additional information</b>  |                      |  |
| Used in swimming and leisure pools, either recreational or therapeutic.  |                      |  |
| Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension. |                      |  |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |   |
|--|---|
|   | <b>Reference No.</b> WSW311.BS                              |
|  | <b>Referent</b> Warning; Artificial waterfall/water cascade |
|  | <b>Function</b> To warn of the hazard from a water cascade  |
|  | <b>Image content</b> Two wavy lines, curved lines and dots  |
| <b>Hazard</b><br>Strong flow of water  |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b><br>Taking care when in the vicinity of water cascades  |   |
| <b>Related safety signs</b>  |   |
| <b>Additional information</b><br>Used in swimming and leisure pools, either recreational or therapeutic.<br>Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension. |   |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|  |                      |   |
|--|----------------------|---|
|   | <b>Reference No.</b> | WSN312.BS   |
|  | <b>Referent</b>      | Warning; Water cannon   |
|  | <b>Function</b>      | To warn of the hazard from a water cannon   |
|  | <b>Image content</b> | Two wavy lines, vertical line and angled barrel shape, right angle lines, three lines of dots |
| <b>Hazard</b>  |                      |   |
| Strong jet of water  |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>  |                      |   |
| Taking care when in the vicinity of water cannon   |                      |   |
| <b>Related safety signs</b>  |                      |   |
| <b>Additional information</b>  |                      |   |
| Used in swimming and leisure pools, either recreational or therapeutic.  |                      |   |
| Test data according to BS ISO 9186-1 has been obtained for the UK. Findings from testing showed that the graphical symbol did not reach the criteria of acceptability. Consequently, a supplementary text sign will need to be used to increase comprehension. |                      |   |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|   |  |
|---|--|
|    | <b>Reference No.</b> WSW313.BS   |
|   | <b>Referent</b> Warning;<br>Grounding narrow boat on lock cill                                 |
|   | <b>Function</b> To warn of a hazard from grounding a narrow boat on submerged cill             |
|   | <b>Image content</b> Narrow boat with stern caught on raised ground, two wavy lines, lock gate |
| <b>Hazard</b><br>Submerged cill   |  |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b><br>Taking care to avoid grounding on (or striking) submerged lock cill  |  |
| <b>Related safety signs</b><br>WSW314.BS  |  |
| <b>Additional information</b><br>Orientated the sign as appropriate for the application.<br>Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |  |



Table NA.6 Description and application of referent for warning signs (category W) (continued)


|   |                      |   |
|---|----------------------|---|
|    | <b>Reference No.</b> | WSW314.BS   |
|   | <b>Referent</b>      | <b>Warning;<br/>Grounding cruiser<br/>on lock cill</b>                |
|   | <b>Function</b>      | To warn of a hazard from grounding cruiser on a submerged cill        |
|   | <b>Image content</b> | Cruiser with stern caught on raised ground, two wavy lines, lock gate |
| <b>Hazard</b>   |                      |   |
| Submerged cill  |                      |   |
| <b>Human behaviour that is intended to be cause by understanding of the meaning of the safety sign</b>                                      |                      |   |
| Taking care to avoid grounding on (or striking) submerged lock cill   |                      |   |
| <b>Related safety signs</b>   |                      |   |
| WSW313.BS   |                      |   |
| <b>Additional information</b>   |                      |   |
| Orientated the sign as appropriate for the application.   |                      |   |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |   |

Table NA.6 Description and application of referent for warning signs (category W) (continued)


|   |                      |   |
|---|----------------------|---|
|    | <b>Reference No.</b> | WSW315.BS   |
|   | <b>Referent</b>      | Warning;<br>Grounding on weir   |
|   | <b>Function</b>      | To warn of a hazard from grounding on weir                                    |
|   | <b>Image content</b> | Cruiser caught on the edge of a drop, two sets of wavy lines (four and eight) |
| <b>Hazard</b>   |                      |   |
| Weir  |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>                                     |                      |   |
| Taking care to avoid grounding on (or striking) weir  |                      |   |
| <b>Related safety signs</b>   |                      |   |
| WSW314.BS   |                      |   |
| <b>Additional information</b>   |                      |   |
| Orientated the sign as appropriate for the application.   |                      |   |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |   |

Table NA.6 Description and application of referent for warning signs (category W) (continued)



|   |                      |   |
|---|----------------------|---|
|    | <b>Reference No.</b> | <b>WSW316.BS</b>  |
|   | <b>Referent</b>      | <b>Warning;<br/>Ferries/crossing<br/>vessels</b>        |
|   | <b>Function</b>      | To warn of a hazard<br>from crossing<br>vessels/ferries |
|   | <b>Image content</b> | Ferry, two wavy<br>lines                                |
| <b>Hazard</b>   |                      |   |
| Crossing vessels/ferries  |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>                                     |                      |   |
| Taking care to avoid crossing vessels/ferries   |                      |   |
| <b>Related safety signs</b>   |                      |   |
| <b>Additional information</b>   |                      |   |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |   |

Table NA.6 Description and application of referent for warning signs (category W) (continued)

|   |                      |   |
|---|----------------------|---|
|    | <b>Reference No.</b> | <b>WSW317.BS</b>  |
|   | <b>Referent</b>      | <b>Warning;<br/>Inflatables</b>                                     |
|   | <b>Function</b>      | To warn of the hazards of using inflatables on the water            |
|   | <b>Image content</b> | Inflatable/four straight lines and a cylinder shape, two wavy lines |
| <b>Hazard</b>   |                      |   |
| People on inflatables on the water being taken out of their depth by winds, tides or currents   |                      |   |
| <b>Human behaviour that is intended to be caused by understanding of the meaning of the safety sign</b>                                     |                      |   |
| Being aware of the hazards of using inflatables on the water  |                      |   |
| <b>Related safety signs</b>   |                      |   |
| WSP301.BS   |                      |   |
| <b>Additional information</b>   |                      |   |
| Displayed on signs at water access points, such as slipways.  |                      |   |
| Test data according to BS ISO 9186-1 is not available for the UK. A supplementary text sign will need to be used to increase comprehension. |                      |   |

## NA.4 Referenced documents

### Standards publications

- [1] BS ISO 9186-1, *Graphical symbols — Test methods Part 1 Methods for testing comprehensibility*.
- [2] BS ISO 20712-3 *Water safety signs and beach safety flags – Part 3: Guidance in use*
- [3] BS ISO 3864-4 *Graphical symbols – safety colours and safety signs – Part 4: Colorimetric and photometric properties of safety sign materials*
- [4] BS ISO 3864-1 *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings\**
- [5] ISO 3864-3 *Graphical symbols — Safety colours and safety signs — Part 3: Design principles for graphical symbols for use in safety signs\**
- [6] BS ISO 7010 *Graphical symbols — Safety colours and safety signs —Registered safety signs*
- [7] BS 8569 *Water safety signs — Guidance for use of coastal slipway safety signs and symbols\*\**

\* under revision

\*\* under preparation

### Other publications

- [1] ROYAL SOCIETY FOR THE PREVENTION OF ACCIDENTS. *National water safety signs, 1987*.
- [2] GREAT BRITAIN. *Health and Safety (Safety Signs and Signals) Regulations 1996 (SI No. 1996/341)*. London, The Stationery Office.
- [3] HEALTH AND SAFETY EXECUTIVE. *Five steps to risk assessment. INDG163 (revision 1) 1998*.
- [4] ROYAL LIFE SAVING SOCIETY UK and ROYAL SOCIETY FOR THE PREVENTION OF ACCIDENTS. *Safety on British beaches*. 1st Edition 1993.
- [5] ROYAL LIFE SAVING SOCIETY UK and ROYAL SOCIETY FOR THE PREVENTION OF ACCIDENTS. *Safety at inland water sites – Operational guidelines*. 1st Edition 1999.
- [6] HEALTH AND SAFETY EXECUTIVE. *Managing health and safety in swimming pools*. HSG179 1999.
- [7] RNLI. *A guide to beach safety signs, flags and symbols*.
- [8] RNLI *Guide of slipway safety signs and symbols*
- [9] ASSOCIATION OF INLAND NAVIGATION AUTHORITIES, *Navigation Signs and Symbols*





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