Base Load Power Hub (BLPH)

Safety Sign Specifications and Data Sheets

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1 INTRODUCTION

1.1 PROJECT OVERVIEW

Crosswind, a Shell and Eneco joint venture, was awarded the tender to develop the offshore Hollandse Kust Noord (HKN) wind farm, located 18.5km off the coast of Netherlands near the town of Egmond aan Zee. The consortium plans to have HKN operational in 2023 with an installed capacity of 759MW generating at least 3.3TWh per year. This is sufficient renewable power to supply more than 1 million Dutch households with green electricity.

Offshore wind farms produce intermittent electricity and balancing these dips and peaks and integrating this electricity into the national energy system requires new technologies. For this reason, the offshore wind farm will include several new technologies that could be implemented at full-scale in the future. The new technologies being explored include a floating solar park, a short-duration battery storage as well as long-term storage via green hydrogen produced by water electrolysis and subsequently consumed in a fuel cell. The combination of these individual measures, herein referred to as the Base Load Power Hub (BLPH) will ensure a continuous power supply regardless of the wind situation.

1.1.1 Project Location

The Hollandse Kust Noord (HKN) wind farm is located 18.5km off the coast of the Netherlands near the town of Egmond aan Zee.

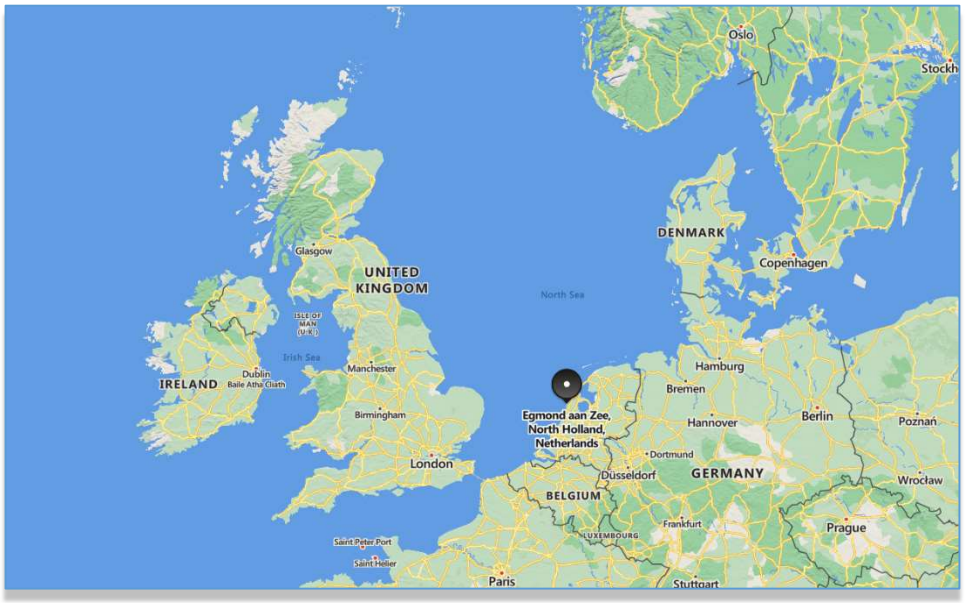


Figure 1 HOLLANDSE KUST NOORD WIND PARK Location Map



Figure 2 - Wind Park Details

The wind farm will consist of No. 69 x 11.5MW wind turbine generators each to be installed on a dedicated monopile structure. A 70th monopile located on coordinates E 590719.1, N 5841602.3 is reserved for installing the platform accommodating the BLPH. The monopile structure was designed and installed by Van Oord Offshore Wind (VooW) and therefore not part of the BLPH scope.

1.1.2 Project Concept

All components included in the BLPH will be integrated onshore on a topsides and installed in an offshore location within the boundaries of the HKN wind farm. At its simplest, the BLPH will store energy during periods of high electricity generation from renewable sources (a wind turbine generator and the floating solar PV farm) and release it during periods of low generation. In practice. It is expected that the energy stored will supplement generation from renewable sources to ensure that at least 1.0MW of power is exported to the electrical grid regardless of wind/solar availability.

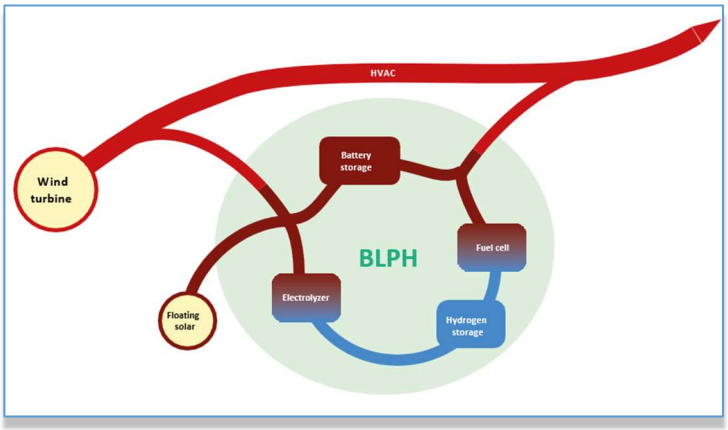


Figure 3 – BLPH Concept

Electricity in the BLPH will be stored in the form of electrons in a battery energy storage system (BESS) as well as converted into green hydrogen via water electrolysis. When the power output from the connecting wind turbine drops to below 1 MWe, the BLPH will return its stored energy to supplement the remaining power output. This will be by discharging the BESS, while stored hydrogen will be converted back into electricity using a fuel cell to extend the discharge duration.

The purpose of the BLPH s to function as a testbed for the integration of energy storage technologies with renewable generation. It is expected that equipment installed on the BLPH will operate as Normally Unmanned Installation for at least two (2) years with minimal maintenance.

1.2 DOCUMENT SCOPE

The purpose of this Specification is to provide safety signs requirements to be implemented on BLPH Platform. All safety signs shall be in agreement with the present datasheets in the document.

Compliance with this Specification does not relieve the SUPPLIER from meeting the requirements of the Company or the Contractor as specified in the Purchase Order (PO).

It is mandatory upon the SUPPLIER to comply with all applicable legislation of the Netherlands regulatory requirements; all safety signs shall be in accordance with related laws and norms. All CPI packages will come directly with their safety signs

2 REFERENCES

2.1 PROJECT DOCUMENTS

The following project documents shall be taken as reference.

[1] 123A90-DDL-SAF-RE-30046 - Design HSE Philosophy

[2] 123A90-DDL-SAF-MR-30042 - MR - Safety Sign

[3] 123A90-DDL-SAF-RE-30013 - Hazardous Area Classification Schedule

[4] 123A90-DDL-SAF-DL-30029 - Safety sign Layout - lower deck

[5] 123A90-DDL-SAF-DL-30030 - Safety sign Layout - upper deck

[6] 123A90-DDL-MAT-SP-60006 - Coating and Painting Specification

[7] 123A90-DDL-OEM-LIS-02015 - Two-year operating spare list

2.2 CODES AND STANDARDS

[8] ISO 3864-1 Graphical Symbols - Safety colours and safety signs - Part 1: Design principles for safety signs and safety markings

[9] ISO 7010 Graphical symbols -- Safety colours and safety signs -- Registered safety signs

[10] NEN 3011 Safety colours and safety signs used in workplaces and public spaces

[11] Directive 92/58/EEC Directive 92/58/EEC of 24 June 1992 on the minimum requirements for the provision of safety and/or health signs at work

[12] International Maritime Organization (IMO) Resolution A.1116(30) – Escape route signs and equipment location markings

[13] ISO 24409-2 Ships and marine technology – Design, location and use of shipboard safety signs, safety-related signs, safety notices and safety markings – Part 2: Catalogue

[14] NOGEPA standards Industry standards and guidelines, Element NL

[15] API RP 14G Recommended Practice for Fire Prevention and Control on Fixed Open-type Offshore Production Platforms

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3 DEFINITIONS AND ABBREVIATIONS

COMPANY or Client (CPY):	CROSSWIND
CONTRACTOR (CTR):	ROSETTI MARINO S.p.A.
PROJECT:	HOLLANDSE KUST NOORD WIND PARK Project
SUPPLIER	The party that manufactures the pump and performs the design, engineerin procurement, installation, commissioning and management of the pum package, procuring other components from Sub-suppliers.
SHALL	Indicates a requirement.
SHOULD	Indicates a recommendation
ATEX	ATmosphères EXplosibles
MANDATORY SIGN	Sign prescribing specific behavior
PROHIBITION SIGN	Sign prohibiting behavior likely to incur or cause danger
SAFE CONDITION SIGN	Sign giving information on emergency exits, first aid and rescue facilities
SAFETY COLOR	Color to which a specific meaning is assigned
SAFETY SIGNS	Sings referring to a specific object, activity or situation and providing information about Safety and/or Health at work by means of sign board an and/or text
SIGN BOARD	Provides information by a combination of geometric shape, color, symbol or pictogram
WARNING SIGN	A safety sign that gives warning of prevalent Hazard

Table 1 - Definitions and Abbreviations

4 GENERAL CONSIDERATION

The purpose of the safety signs is to identify potential sources of risk, the location of the safety devices and safe areas in the plant.

Safety signs shall be positioned in the platform in a way to quickly and clearly attract attention to situations which can cause safety hazards.

All safety signs are photoluminescent type.

Whenever risks cannot be avoided or sufficiently limited with measures, methods, work organization systems or technical means of collective protection, safety signs shall be employed to:

- Warn people that could be exposed to a risk hazard;
- Prohibit behaviours which could cause hazard;
- Specify particular behaviour necessary to safeguard health;
- Supply information about safety exits or means of aid or rescue;
- Give information useful to avoid the occurrence of incidents/accidents.

5 CATEGORIZATION OF SAFETY SIGNS

Sign Type	Function	Reference
E	Signs indicating an evacuation route, the location of safety equipment or a safety facility, or a safety action (safe conditions signs)	ISO 7010; NEN 3011
F	Fire equipment signs	ISO 7010; NEN 3011
M	Mandatory action signs	ISO 7010; NEN 3011
P	Prohibition signs	ISO 7010; NEN 3011
W	Warning signs	ISO 7010; NEN 3011
SIS	Shipboard fire control plan signs for shipboard use	ISO 24409-2

Table 2 - Definitions and Abbreviations

5.1 SAFETY COLOURS

Colour	Meaning or purpose	Instruction and information
RED	Prohibition sign, Fire Safety	Dangerous behavior / Danger alarm / Stop / Shutdown / Emergency cut out devices/ Evacuation/ Firefighting equipment identification and location
YELLOW	Warning sign	Be careful / Take precaution / Examine
BLUE	Mandatory sign	Specific behavior or action / Wear personnel protective equipment
GREEN	Safe condition sign, Emergency escape, First Aid	Doors / Exits / Equipment / Facilities /

Table 3 - Safety Colour

Contrast colours can complement the safety colours and can be useful to improve the visibility of the signs and to highlight their content.

The contrast colours corresponding to the various safety colours are indicated in the table below.

Safety Colour	Contrast colour
Red	White
Yellow	Black
Blue	White
Green	White

Table 4 - Contrast color for safety sign

5.2 SHAPE OF SAFETY SIGN

Each safety sign shall adhere to the following characteristics:

Safety Colour	Shape		
	Circle	Triangular (Horizontal Base)	Rectangle or Square
Red	Prohibition		Firefighting equipment
Yellow		Warning	
Green			Emergency escape, First Aid
Blue	Mandatory		
White			Information

Table 5 - Shape of safety sign

Here below are examples of colours and shapes for safety signs:

Message	Safety Colour	Example	Shape

Prohibition Sign Sign	Red		Square sign. Red used for the Circle and diagonal line. Black symbol, centrally placed. White Background colour
Indication of firefighting equipment and material	Red		Rectangular shape. Red background and white pictogram
Warning Warning Hazards, used to alert danger as radiation, electricity, etc.	Yellow		Triangular shape. Yellow backgroun the outline and pictogram are black, the background is yellow.
Mandatory Used to indicate an obligation action as the use of PPE	Blue		Circular shape. Blue Background. White pictogram
Indication of emergency exits, escape / evacuation routes, safe areas.	Green		Rectangular shape. Green Background. White pictogram

Table 6 - Examples of colours and shapes for safety signs

The symbols shall be simple and essential as much as possible; its size shall be proportional to the size of the sign in order to facilitate its perception and comprehension. The symbol or text shall be located at the center of the sign. The text shall not be inserted inside symbol (only for restriction signs this is permissible).

The language that shall be used for text of safety signs shall be double in Dutch and English.

Text may be used to supplement or clarify the meaning of the graphical symbols: in this case the size of the table containing the text shall be proportional to the area of the sign.

Before starting the print, SUPPLIER shall provide the example of how each safety sign will look like.

Borders are recommended to achieve contrast between the safety and/or supplementary sign and the surrounding. The value of the border is between 0.025 to 0.05 of the geometric shape. The relationship between the greatest distance from which the safety sign is legible and conspicuous in shape and colour and the height of the safety sign together with the distance factor Z is given by the following equation:

$D=Z\times H$

Where:

- D: Greatest legible distance (in meters).
- Z: Distance factor, which accounts for the visibility conditions (often Z=200 under normal conditions).
- H: Height of the geometric shape of the safety sign (in meters).

6 REQUIREMENTS OF SAFETY SIGNS

6.1 PROHIBITION SIGNS

Prohibition sign is a safety sign that indicates that certain behaviour is prohibited. The safety colour is red and occupies the surface of a ring located at the edge of the sign and a diagonal band of equal width located at 135°covering no less than 35% of the surface of the sign.

Prohibition signs shall comply with the layout requirements given in Figure 4

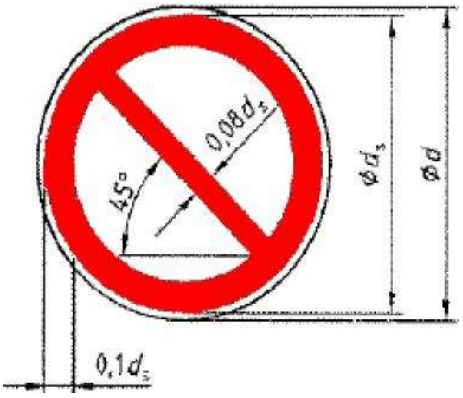


Figure 5 - Layout requirements for a prohibition sign

Shape: Prohibition signs must have a circular shape.

Color: The circle's outer border must be red, while the background inside the circle is white. The symbol or pictogram displayed in the center should be black.

Diagonal Line: A red diagonal bar must cross the circle from the upper left to the bottom right, at a 45° angle. The line should pass through the center of the symbol to indicate the prohibited action or behavior.

Proportion: The width of the red border must be 0.08 times the diameter of the circle, ensuring the visibility of the prohibition sign from a distance.

6.2 MANDATORY SIGNS

Mandatory sign is a sign that indicates that a specific course of action is to be taken to prevent potential Hazard.

The safety colour is blue and it covers at least 50% of the area of the sign excluding the border.

Mandatory action signs shall comply with the layout requirements given in Figure 6

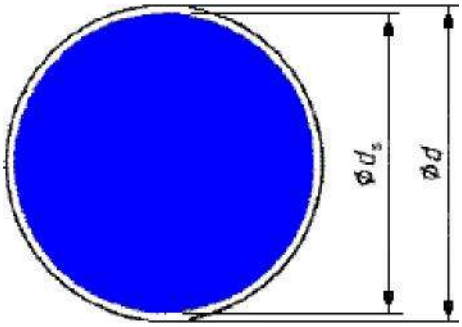


Figure 7 - Layout requirements for mandatory sign

Shape: Mandatory signs must have a circular shape.

Color: The circle's outer border must be white, while the background inside the circle is blue. The symbol or pictogram displayed in the center should be white.

Proportion: The width of the blue area is proportional to the circle's diameter, ensuring that the white pictogram is clearly visible against the background. Colour blue shall cover at least 50 % of the area of the sign.

6.3 WARNING SIGNS

Warning sign is a safety sign that gives warning of a prevalent Hazard. The safety colour is yellow and it covers at least 50% of the area of the sign excluding the border.

Warning action signs shall comply with the layout requirements given in Figure 8

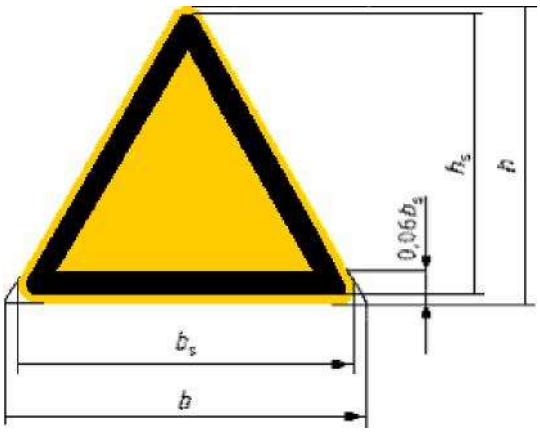


Figure 9 - Layout requirements for warning sign

Shape: Warning signs must have a triangular shape.

Color: The background color should be yellow with a black border. The symbol displayed in the center of triangle should be black. The triangle should be scaled ensuring it is clearly visible and recognizable.The symbol or pictogram displayed in the center should be black.

Proportion: The height of the triangle should be equal to the width, forming an equilateral triangle. The black border around the triangle should be proportional to the size of the sign, typically around 6% of the height of the triangle.

6.4 SAFE CONDITION SIGNS

Safe condition sign is a safety signs that provides information about safe conditions. The safety colour is green. The contrast colour white is used in the symbol and for a narrow border of 1/20th of the longest side in width. Safe condition signs shall comply with the layout requirements given in Figure 10

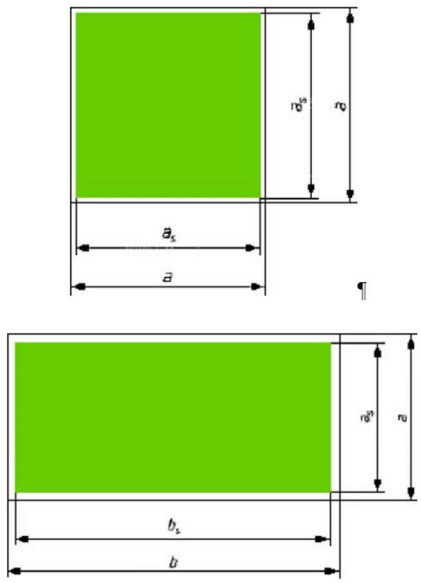


Figure 11 - Layout requirements for a square / rectangular safe condition sign

Shape: Safe condition signs can be either rectangular or square

Color: The background color should be green. The symbol or pictogram shall be white.

Proportion: The symbol inside the sign should be scaled to fit within the green background, ensuring it is clearly visible and recognizable. The size of the symbol should be proportional to the size of the sign, maintaining clarity and visibility.

6.5 FIRE SAFETY SIGN

Fire safety signs shall comply with the layout requirements given in Figure 3-6

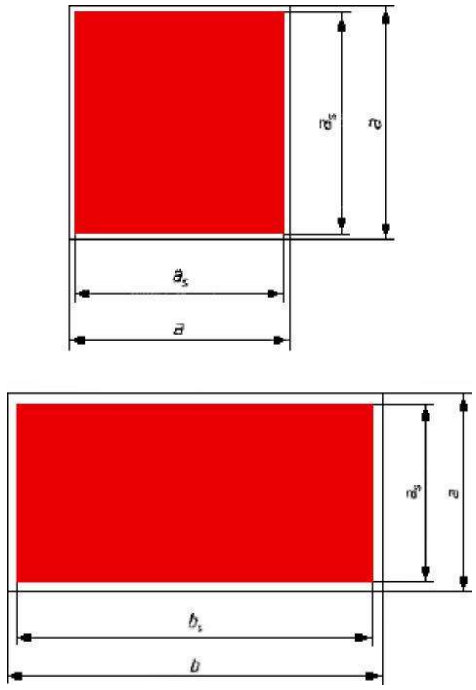


Figure 12 -Layout requirements for a square/ rectangular fire safety sign

Shape: Safe condition signs can be either rectangular or square

Color: The background color should be red. The symbol or pictogram shall be white.

Proportion: The symbol inside the sign should be scaled to fit within the red background, ensuring it is clearly visible and recognizable. The size of the symbol should be proportional to the size of the sign, maintaining clarity and visibility.

6.6 SUPPLEMENTARY SIGNS

Supplementary sign is a sign with text only that may be used in conjunction with a safety sign in order to provide additional information. The back ground is in the safety colour and the text is in the contrast colour. This auxiliary sign must be rectangular in shape and it must be placed underneath the safety sign.

Supplementary signs shall comply with the layout requirements given in Figure 13

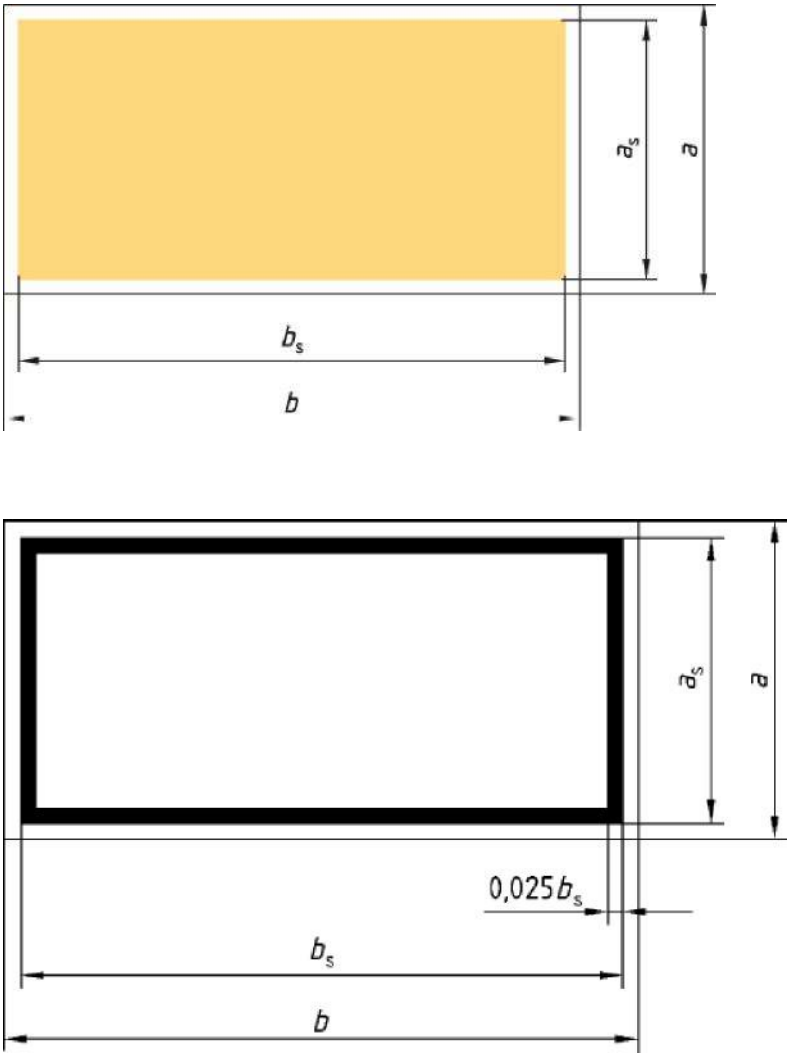


Figure 14 - Layout requirements for a supplementary sign

Shape: Supplementary signs must be rectangular

Color: The background color should be white or safety colour of the safety sign. Border shall be white, while boundary shall be in black colour.

Proportion: The symbol inside the sign should be relevant contrast colour, ensuring it is clearly visible and recognizable. The size of the symbol should be proportional to the size of the sign, maintaining clarity and visibility.

6.7 HAZARD SEVERITY PANEL

If the level of hazard severity is to be indicated, a hazard severity panel shall be added to the top of the combination or multiple product safety label. When hazard severity panel are used they shall be rectangular in shape and shall contain all three elements as follows and in accordance to Table 15:

- General warning sign;
- Signal word;
- Corresponding colour.

Background colour of panel	Contrast Colour	Meaning / Use	Hazard severity panel illustration
Red	White	DANGER hazard severity panel to identify a high level of risk	
Orange	Black	WARNING hazard severity panel to identify a medium level of risk	
Yellow	Black	CAUTION hazard severity panel to identify a low level of risk	

Figure 16 - General meaning and use of colours in hazard severity panels

The meaning of the different hazard severity panels is the following:

- DANGER indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury;
- WARNING indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury
- CAUTION indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury

7 RULES FOR SAFETY SIGNS PROVISION AND INSTALLATION

To ensure their efficacy, safety signs must only be used for messages concerning safety and health at work. Signs should be located to avoid any obstacles, at a height and position which are appropriate to the line of sight of anyone entering the area in question, in case of generic risk, or immediately adjacent to a specific risk or object to be noted, in a well-lit and easily accessible and visible place. The presence of another emission source of the same type which interferes with visibility would impair effectiveness of the signs and shall be avoided, in particular:

- placing of too many signs too close together should be avoided;
- two illuminated signs which are likely to be confused shall not be used at the same time.

Also poor design, insufficient number, incorrect positioning, poor state of repair or incorrect functioning of the signs shall be avoided.

Depending on requirements, signs and signalling devices shall be cleaned, maintained, checked, repaired and if necessary replaced on a regular basis to ensure that they will retain their functional qualities.

The number and positioning of sign or signalling devices to be installed will depend on the extent of the hazards or dangers and on the zone to be covered.

Signs requiring some form of power shall be provided with a guaranteed emergency supply in the event of power cut, unless the hazard will thereby be eliminated.

The sign or signal shall be activated for as long as the action requires. Illuminated signs and acoustic signals shall be reactivated immediately after use and checked to ensure that they function correctly (both before they are put again into service and at fixed, sufficiently frequent intervals).

If the workers involved have limited sight, possibly due to the use of personal protective equipment, adequate supplementary or alternative measures must be adopted.

A sign should be removed when the situation justifying it no longer exists.

7.1 POSITION ASSIGNMENT OF A SUPPLEMENTARY SIGN

The positions of the supplementary sign are shown in Figure 17. The supplementary sign shall be placed below, to the right or the left of the safety sign.

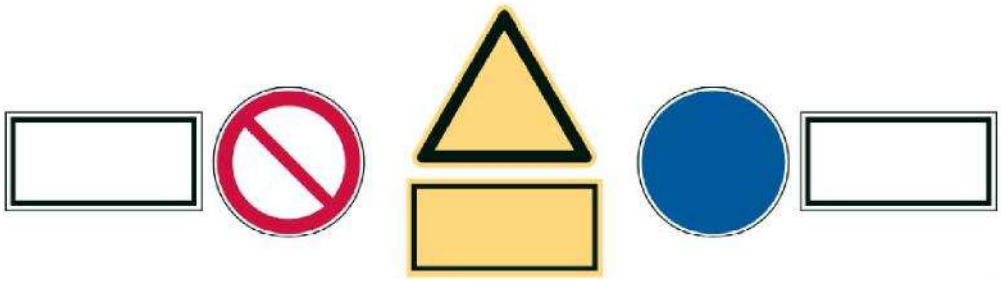


Figure 18 - Position assignment of a supplementary sign

7.2 COMBINATION SIGNS

Combination signs contain the safety sign and the supplementary sign on one rectangular carrier. Examples are shown in Figure 19.

The colours of the sign shall be as follows:

- Colour of sign carrier: colour of the safety sign or white
- Symbol or text colour: relevant contrast colour

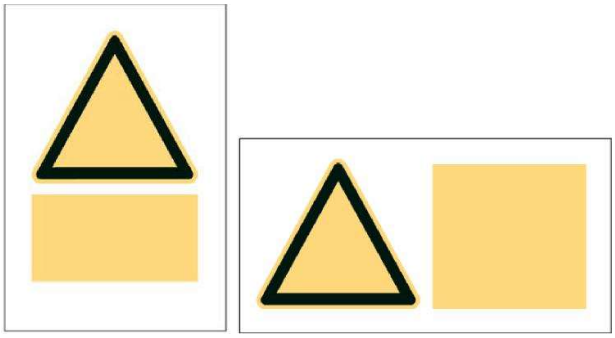


Figure 20 - Layout for a combination sign with the supplementary sign below and to the right of the safety sign

In combination product safety labels with a hazard safety panel, the hazard severity panel shall be placed at the top of a vertical label or above the supplementary safety information panel on a horizontal combination product safety label. Black borders may be used on combination product safety labels to separate the safety sign, the supplementary safety information panel and the hazard severity panel. Examples are reported in Figure 21.

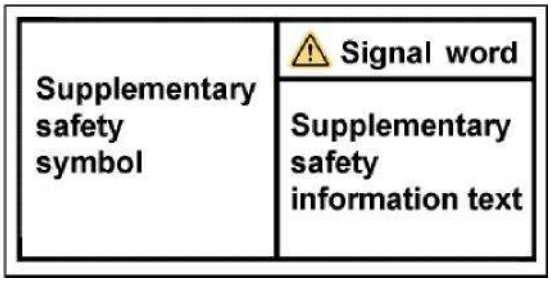


Figure 22 - Layout of combination product safety labels with a hazard severity

7.3 MULTIPLE SIGNS AS A MEANS OF COMMUNICATING COMPLEX SAFETY MESSAGE

A multiple sign is a combination sign containing two or more safety signs and/or associated supplementary signs on the same rectangular carrier. An example of a layout for a multiple sign used to communicate a warning, a mandatory instruction to avoid risk of injury and/or provide a prohibition message is given in Figure 23.

In multiple signs, the order of the safety signs (and/or the corresponding supplementary signs) should be arranged according to the importance of the safety messages. A horizontal layout may also be used.

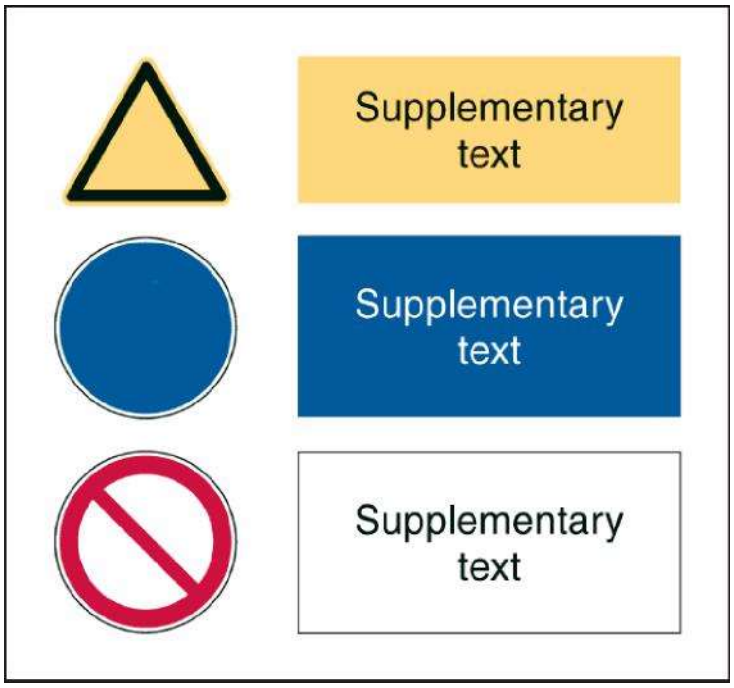


Figure 24 -Example of a layout for a multiple sign

7.4 MULTILANGUAGE SIGNS

All signs containing script shall be written in both English and Dutch.

8 PLANT MINIMUM REQUIREMENTS

Permanent signboards shall be used for signs relating to prohibitions, warning, mandatory

requirements and the location of emergency escape routes and first-aid facilities.

Signboards and/or a safety colour shall be used to mark permanently the location and identification of fire-fighting equipment.

Places where there is a risk of colliding with obstacles or of failing or where personnel are exposed to a special hazard shall be permanently marked with a safety colour and/or with signboards.

Safety signs shall be used where it will be required to alert personnel for danger, to advise personnel to take specific actions and in case of emergency evacuation.

All equipment shall be designed to with stand temperatures from -10°C to 30°C. Equipment are required to be stored in an outdoor corrosive and salt laden environment.

8.1 ESCAPE ROUTE IDENTIFICATION SIGNS

Safety signs identifying escape routes and emergency exits must be located inside buildings and in plant areas.

Containers

All escape routes and emergency exits must be adequately signed. Exits from buildings must be indicated, and the direction of the way out clearly shown.

Plant Areas

The safe routes to emergency exits and the location of safe areas or emergency equipment shall be indicated by Emergency and/or Evacuation signs. The safety colour shall be green and the shape shall be rectangular; the contrast colour could be used in the symbol and for a narrow border of 1/20th of the longest side in width.

8.2 HIGH VOLTAGE AREA

Safety signs shall be used where necessary to warn workers about electrical hazards which may endanger them. Safety signs shall be used to warn and protect workers from hazards which could cause injury due to electric shock, burns or similar or limit workers access to in the “High Voltage Area”.

8.3 AREAS WHERE THE WORKERS ARE EXPOSED TO A HEALTH HAZARD

Safety signs shall be provided in the plant areas, in the enclosures and in the buildings rooms that require the use of adequate Personal Protective Equipment (PPE) or where the workers are exposed to a potential health hazard (high noise levels; high temperature; high ionization radiation; high vibration; chemical agents potentially hazardous to health).

A proper safety sign shall be provided in the restricted area of the cold vent, where intolerable heat radiation levels can be present, during the emergency shutdown condition of the plant

9 SAFETY SIGNS QUANTITIES

This Specification is primarily intended to define the minimum requirements and does not relieve the SUPPLIER of its responsibility for the design of the whole products.

The SUPPLIER shall be responsible for the design, guarantees, co-ordination, manufacture, inspection, testing, preservation and packaging of the entire products, in accordance with the requirements of this Specification, Regulations and Project documents.

Safety Signs shall be designed and constructed for a minimum service life of 2 years.

TAG	DESCRIPTION	QUANTITY			
		Below lower	below	upper	spare
1	Escape route direction arrow - STRAIGHT	5	30	16	10
2	Escape route direction arrow – 45°	3	9	6	5
3	Muster Point	1	1	-	-
4	Safety Cabinet	1	1	-	-
5	Electrical Hazard	-	8	-	-
6	Electrical Safety Kit	-	1	-	-
7	Resuscitation Unit	-	1	-	-
8	First Aid Kit	1	2	-	-
9	Escape Maks	1	-	-	-
10	Life Buoys	1	6	6	2
11	Emergency Exit	1	11	-	2
12	Attention Suspended Load	-	2	2	-
13	Stretcher	-	1	-	-
14	Emergency Push Button	1	12	9	3
14	Liferaft	-	2	-	-
18	Eye Wash Station	-	4	-	-
19	Fire extinguisher – CO2	-	8	-	-
20	Fire extinguisher – POWDER	-	-	3	-
21	Access for Unauthorized Persons Prohibited	1	-	-	-
22	Wear Helmet		2	2	-
23	Wear Ear Protection	HOLD: awaiting noise study results			
24	Wear Safety Vests	1			
25	Open Flame and Smoking Prohibited	1		4	
26	Restricted Area: Access Allowed Only with PTW		4		

10 DEVIATIONS AND EXCLUSIONS

The SUPPLIER shall identify and list all deviations and exclusions to the listed documents of Chapter 2 and associated requirements, using the form in Material Requisition – FF and Safety Equipment Ref. [2]

Unless deviations or exclusions are specifically identified by the SUPPLIER in the bid proposal and approved by the Contractor, the SUPPLIER shall be deemed to have confirmed full compliance with all listed documents.

In the event of a technical deviation, the SUPPLIER shall submit to the Contractor a formal written quotation, as detailed in the commercial terms and conditions. This shall be approved before the agreed technical changes are implemented. Where such changes affect the agreed price or delivery schedule a revised price schedule and/or manufacturing program shall accompany the quotation supplement. In the absence of a quotation supplement and/or revised schedule it shall be assumed that the proposal changes have no effect on the delivery schedule and/or price.