

# IMO CATALOG 2021 - 2022



**T-ISS**  
Safety Suppliers





## INTRODUCTION

Dear customers, partners and friends,

A lot can change in 2 years' time. Since the release of our latest IMO catalog, developments have continued at a furious pace in the maritime market and we also see the global impact of COVID-19 which creates the most challenging situation we have seen in decades for the cruise and ferry sector. At T-ISS we are right in the middle of it, while our products and services try to make the maritime world a little safer every day.

### Sustainability

Sustainability was and is a focus point for the maritime sector. Our PET-X safety signs are PVC-free, halogen-free and have the best longevity possible, it has become the standard for us and it should be for you too.

With our continuously growing product portfolio of safety products, safety signs, low location light and maritime safety tapes, we are ready for you with fast worldwide delivery, high quality and good service.

### Safety signage implementation and measurements

Development and installation of an effective and compliant safety signage system has been our core business for many years. Whether it is on a cruise ship, ferry, oil rig, container ship or tanker, the safety of the crew and passengers is our top priority when implementing such a system. Our safety signage portfolio consists of: Escape route signage (including low location lighting), safety plans, fire & rescue signage, warning signs, pipe marking and ISPS signs. If you want our engineers to implement, check or certify your safety signage system, contact us today.

Besides this catalog where you can find all our products and services, you can also get in touch with us through digital channels by visiting our website, communicating with us through live chat or by subscribing to our email newsletter. Already thousands have preceded you.

We are looking forward to meeting you again soon somewhere in the world!  
Enjoy reading,



Willem Heijboer  
Owner & Director









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# SOLAS MARITIME SAFETY PRODUCTS





## INTRODUCTION

Life-saving products are of great importance in operating safely at sea, whether on a ship or at an offshore location. Choosing the right equipment to protect your personnel, guests or materials is the most important task of any ship owner or offshore asset owner, while always looking for value-for-money: the highest quality for the lowest price.

### Certified and approved safety products that you can rely on

We offer a selective range of Safety Products for the marine and offshore market to protect your people and your business. All of our products come with all the required certificates and approvals and are priced on a very competitive level. We aim to be at the forefront of maritime safety and are constantly developing (both inhouse and in cooperation with our trusted partners-suppliers) new products based upon our solid reputation for quality and innovation. One thing we never compromise on, is our quality. All our maritime safety products meet the strictest standards for design, testing, documentation, are compliant with local regulations and international standards. T-ISS offers safety products that are cost-efficient, easy to use and above all, will give the owner and user peace of mind. All our maritime safety products are globally available through an extensive network of stockists and distributors.

### Our experience and quality is your advantage

T-ISS was established in 2003 and is an ISO9001:2015 approved company. The people behind the company have decades of experience in the Marine Industry. We perfectly understand the importance of reliable, accessible and good price-quality ratio products, services and turn-key solutions. Our products meet all the international quality standards and hold all the relevant certificates and approvals. As a result, they are recognized by most benchmark systems and regulatory authorities.

### Environment, health and safety

T-ISS as a company is dedicated to environmental safety and health, at all levels of its operations, from manufacturing to installation. Because of this, we have our own Environmental, Health and Safety policies. These are part of the T-ISS company policy, and reflect our principles of running a sustainable business.

- Creating a safe working environment for all employees and stakeholders
- Minimizing the carbon footprint
- Integrating EHS elements into T-ISS Research & Development strategies for all company products and systems
- Continuous measurement, monitoring and improvement of EHS performance



## HYDROSTATIC RELEASE UNIT (HRU)



### General description

The T-ISS Seamate Ve-1 Hydrostatic Release Unit or HRU is a pressure activated mechanism designed to automatically deploy that clears your life raft or EPIRB to float up to the surface. In the exceptional situation a vessel sinks, the HRU will activate and release the life raft or EPIRB on a depth between 1,5 and 4 meters.

The pressure of the water on the casing causes a knife to cut through a rope and thereby releasing the life raft. This same principle applies on the HRU for EPIRB's, whereby the bracket which holds the EPIRB is released. The EPIRB model is delivered with the bolt and nut to connect the EPIRB to your vessel.



HRU basic model  
6 up to 150 pax  
HRU001-L

All HRU models have the same compact universal size to save space and are DNV and Wheelmark approved. The different HRU models do not require any maintenance, spare parts or separate service intervals.

The product should only be replaced every 3 years during the standard service interval of the life raft or EPIRB. Because of the simple and quick assembly of the HRU, downtime on shore is reduced to an absolute minimum.

### Technical data

Dimensions: 165 x 75 x 65 mm

Weight: Approx. 0,25 kg

### Benefits & Features

The innovative design and the high quality of our HRU's increased the reliability, which is why the T-ISS SeaMate Ve-1 has an expiry life of 3 years and can be used in all weather conditions, from extreme heat to the polar environment. This means you only have to replace the HRU every 3 years, instead of 2 years which is the standard. Besides cost saving, 3 years expiry also reduces the environmental impact.

We can provide you with five different HRU models, each with a different application. A basic model for 6 to 150 pax, a basic model for 1 to 12 pax, an EPIRB model, a remote released model and a combi model.







HRU epirb model  
HRU002-E



HRU mini model  
1 up to 12 pax  
HRU003-M



HRU remote released model  
HRU004-R



HRU combination model  
HRU005-C

## HRU HOOKS

T-ISS can supply you with various hooks which are suitable for our HRU-models and are made out of seawater resistant SS316 Stainless Steel. They have a breaking strength that complies with the ISO regulations ISO6892. All hooks are packed in sets of 10 pieces.



HRU carabineer  
HRUHK-CA



HRU sliphook  
HRUHK-SL



HRU shackle  
HRUHK-SH

## Approvals

- Russian Register
- DNV
- USCG
- Korean Government

## Standards

- In compliance with ISO 15734

Article number	Description	IMPA	ISSA
HRU001-L	Seamate HRU for liferafts 6-150p	330119	4700802
HRU002-E	Seamate HRU for epirb bolt	330126	4700803
HRU003-M	Seamate HRU mini for liferafts 1-12p	330126	4700803
HRU004-R	Seamate HRU remote released model	330126	4700803
HRU005-C	Seamate HRU combination model	330119	4700802
HRUHK-CA	HRU carabineerhook (10 pcs)	-	-
HRUHK-SL	HRU sliphook (10 pcs)	-	-
HRUHK-SH	HRU shacklehook (10 pcs)	-	-

## LIFERAFT / RESCUE BOAT HOOK PX01



### General description

The T-ISS Liferaft / Rescue boat hook PX01 is a combined automatic release hook which can handle rescue boats and liferafts up to a safe working load of 35 kN. This hook can be used for rescue boats with a davit load less than 3500 kg and/or a davit launched liferaft up to 40 pax.

The PX01 release hook has two modes of operation to allow for safe evacuation regardless of the conditions:

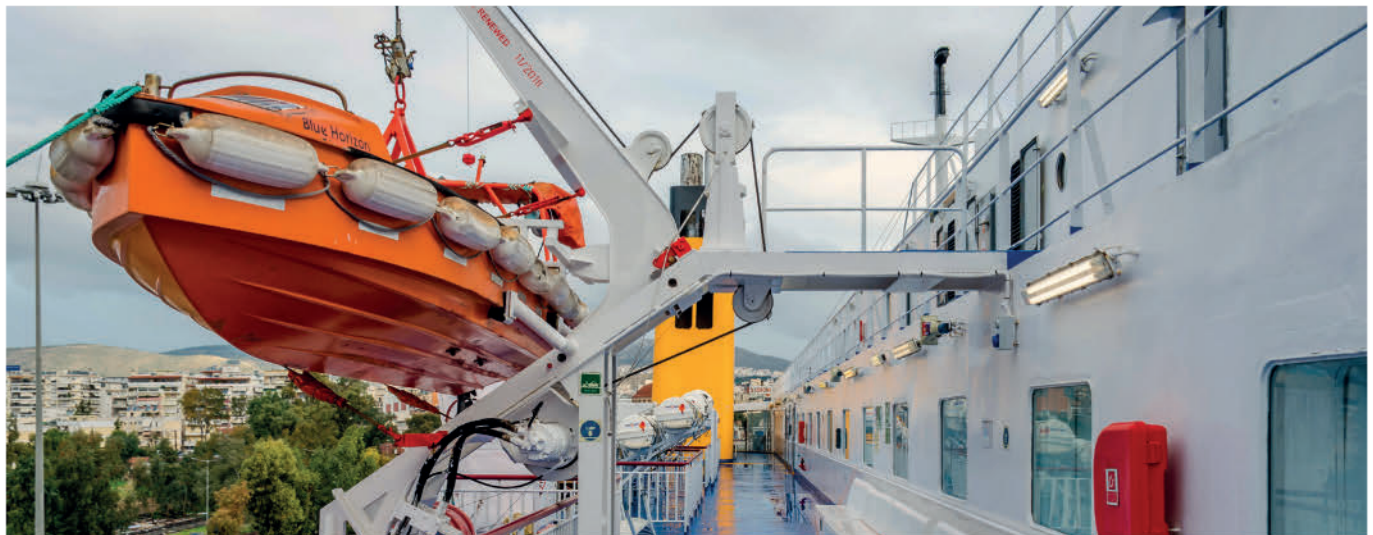
1. Automatic release when the craft enters the water.
2. Manual release when waterborne if auto-release is not possible due to added load on the reserve boat while being towed or when sea conditions are bad.

### Technical data

Maximum SWL:	3500 kg
Material:	Stainless steel 316 / Duplex
Service life:	5 years

### Benefits & Features

The PX01 will increase safety, as the crew only need to familiarize themselves with one hook, instead of two. There is no second hook, dangerously swinging around when lowering. In distress situations the crew will instantly know which hook to use, as there is only one hook. The most economical solution, why buy two hooks if one is sufficient?



### Approvals

- RINA
- EC Directive 96/98EC on Marine Equipment (MED)

### Standards

- LSA Code for Hooks for Liferaft Launching, as amended MSC.81(70).
- Fully compliant with updated SOLAS requirements as per Resolutions MSC.320(89) and MSC.321(80).

Article number	Description	Dimensions	Weight
RELHK-PX01	Automatic release hook (liferaft/rescue boat) 35kN	260 x 260 x 70 mm	Approx. 8,5 kg



## LIFERAFT RELEASE HOOK PX02

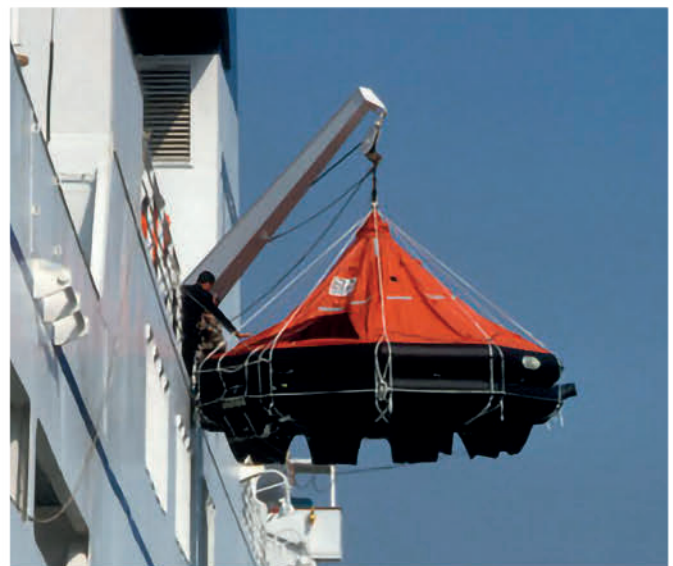


### General description

The T-ISS Liferaft release hook PX02 is an automatic release hook for davit launched liferafts, which can handle a safe working load of 25 kN. The hook can be operated as an automatic release hook, releasing when the raft enters the water, or as a manual release hook.

### Technical data

Maximum SWL:	2500 kg
Material:	Stainless steel
Service life:	5 years



### Approvals

- RINA
- EC Directive 96/98EC on Marine Equipment (MED)

### Standards

- LSA Code for Hooks for Liferaft launching, as amended MSC.81(70).
- Fully compliant with updated SOLAS requirements as per Resolutions MSC.36(63), MSC.48(66) and MSC.81(70).

Article number	Description	Dimensions	Weight
RELHK-PX02	Automatic release hook (liferaft) 25kN	300 x 190 x 90 mm	Approx. 8,2 kg



## RESCUE BOAT RELEASE HOOK PX03



### General description

The T-ISS Rescue boat hook PX03 is a manual release hook for rescue boats, which can handle a safe working load of 15 kN. The hook is easy to operate/maintain and comes with a 5 year service life. The hook is designed to be opened manually and can be operated by one person. By pushing the release handle in the upward position, the hook will open.

### Technical data

Maximum SWL:	1500 kg
Material:	Stainless steel 316 / Duplex
Service life:	5 years



### Approvals

- RINA
- EC Directive 96/98EC on Marine Equipment (MED)

### Standards

- LSA Code for Hooks for Liferaft Launching, as amended MSC.81(70).
- Fully compliant with updated SOLAS requirements as per Resolutions MSC.320(89) and MSC.321(80).

Article number	Description	Dimensions	Weight
RELHK-PX03	Manual release hook (rescue boat) 15kN	260 x 135 x 60 mm	Approx. 4,5 kg

## EMERGENCY ESCAPE BREATHING DEVICE



### General description

Light, compact and easy to use, our Emergency Escape Breathing Device (EEBD) is perfectly adapted to confined spaces onboard your vessel. It's designed to escape from toxic or oxygen deficit environments, which require easy and immediate donning. The EEBD is packed in a handy carrying bag. Positive pressure in the hood eliminates any risk of inhaling toxic gases. An alarm indicates when the air supply is about to run out.

### Technical Data

Cylinder working pressure: 210 bar  
 Cylinder capacity: 3 l  
 Duration: 15 minutes  
 Non-pressurized delivery

### Benefits & Features

The T-ISS EEBD is intended to be used to escape from a machinery space and be carried by fire fighters to give personnel in need of assistance. An EEBD is not intended to be used for fire-fighting purposes or entering oxygen-deficit or toxic environments, for firefighters use our SCBA. This EEBD is designed according to Chapter 3 - Fire System Safety Code (FSSC)/2.2. A training version of this EEBD is also available.



Lloyd's Register & ABS approved cabinets.  
 To order separate.

### Approvals (EEBD)

- DNV module B&D
- Wheelmark

### Standards

- Complies with SOLAS 74 and reg. 11-2/13.3.4 and 13.4.3
- Complies with TS EN 1146/15 incl. A1, A2 and A3

Article number	Description	Dimensions	Weight	IMPA	ISSA
EEBD15	EEBD	530 x 250 x 150 mm	Approx. 6 kg	330438	4721101
EEBDC	EEBD cabinet	762 x 282 x 211 mm	Approx. 4 kg	-	-
EEBDH	EEBD hood	-	-	-	-
EEBDB	EEBD bag	-	-	-	-



## SELF-CONTAINED BREATHING APPARATUS



### General description

The SCBA is a Self-Contained Breathing Apparatus, with a six liter volume steel cylinder, positive pressure. This self-contained breathing respirator is used by fire-fighters and emergency rescuers. The full package includes a steel cylinder, full face mask, back strap, supply valve, alarm whistle, pressure reducer and completely packed in a carrying bag. The alarm pressure is set at 46 Mpa.

### Technical Data

Pressure: 300 bar  
Cylinder: Alloy steel, 6 l  
Working time: 60 minutes



### Approvals

- DNV MED module B&D
- Wheelmark

Article number	Description	Dimensions	Weight
SCBA-RIZK6/30	Self-Contained Breathing Apparatus	700 x 300 x 480 mm	Approx. 16 kg



## ROLALUX VH01 ROLLDOWN CASSETTE

### General description

SOLAS regulations require a permanent display of the general arrangement plans on a ship's bridge (GA plan, Fire Safety plan and Escape plan). The Rolalux VH01 Rolldown Cassette gives you the opportunity to store 1 up to 3 different plans in the space. It is required that the general arrangement plans are kept up-to-date. Because of this, the VH01 Rolldown allows for easy replacement of the plans. You can simply remove and replace all three plans in the Rolldown system easily.

Safety and evacuation plans should be permanently available to support the captain and officers on ships above the 20 meters. On the drawings a number of things must be clearly highlighted:

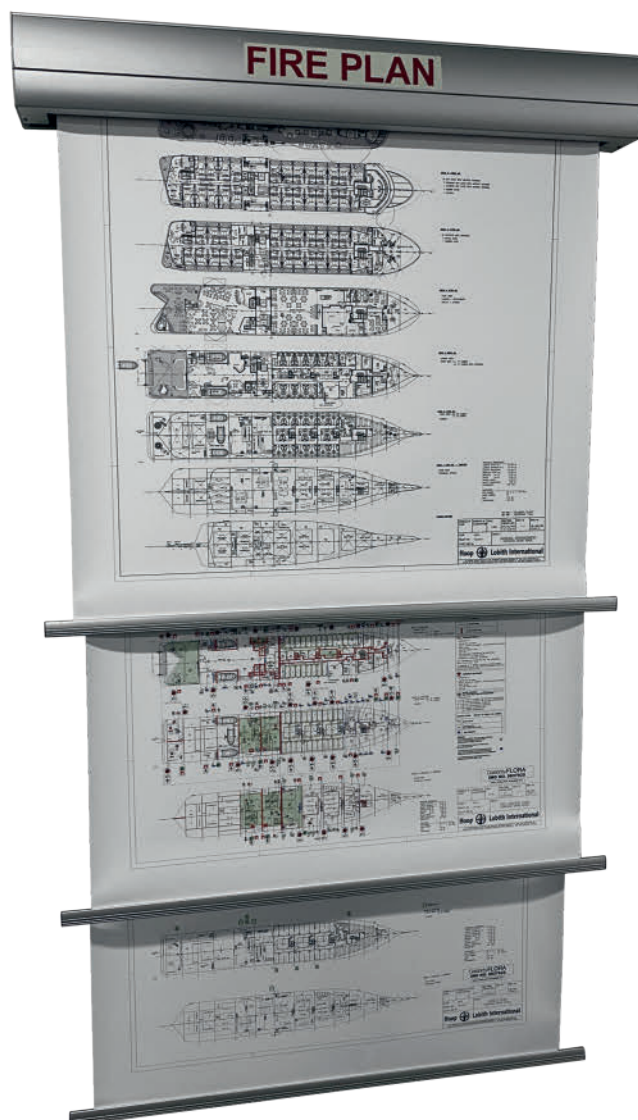
- Where to find the control station on each deck
- Where parts of the ship are enclosed by fire resistant bulkheads
- And the general data of the fire alarm systems

### Technical data

Material: aluminium anodised

### Benefits & Features

- Store 1-3 plans in the space
- Easy replacement of plans
- Meets SOLAS regulations (Chapter II-2, Regulation 15.2.4)
- Modern design and solid mechanism
- Ensures a clean, well-arranged bridge
- Wall or ceiling mount possible
- Other dimensions available on request



Article number	Description	Dimensions	Weight
RDCA0	Rolalux VH01 alu for safety plans	1000 x 125 x 130 mm	Approx. 4,5 kg
RDCA0-T	Rolalux VH01 alu incl. 1-3 safety plans	1000 x 125 x 130 mm	Approx. 5,0 kg

## FIRE PLAN CONTAINER

### General description

The T-ISS Fire plan container is a watertight container that stores a copy of a fire plan and / or an escape route plan. As we've recognized that fire plan containers are damaged easily, we have developed a stainless steel fire plan container, which resists the harsh maritime environment. Fire and safety plans must always be exhibited for the guidance of the ship's crews showing clearly for each deck as required by the SOLAS Chapter II Reg. 15/2.4.1 and 2.4.2.

### Technical Data

Packaging: 2 containers / box

### Benefits & Features

- Will last your ships lifetime
- Resistant to weather influences unlike PVC/plastic containers
- Suitable for all the standard plan sizes
- Watertight / marine environment resist
- Stainless Steel container
- Comes with photoluminescent "Fire plan" or "Fire and Safety plan" sign and sticker
- Comes with wall mounting brackets



### Standards

- Complies with IMO / SOLAS II-2 15/2.4.1 and 15/2.4.2.

Article number	Description	Dimensions	Weight	IMPA	ISSA
FPC	Fire plan container (incl. sign and sticker)	980 x 100 mm	Approx. 2,2 kg	332613	7585200



## INTERNATIONAL SHORE CONNECTION & BOX

### General description

The goal of the International shore connection is to keep a standby hose attachment to get a connection from shore or from other ships for onboard firefighting, in case there is a total failure of pumps onboard.

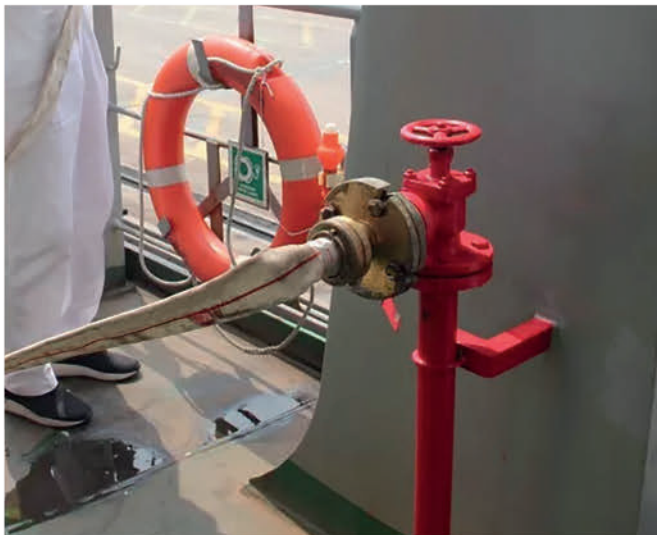
While using the International shore connection, the sea water is supplied at a pre-decided pressure and is connected to the ship's fire main.

### Technical Data

- 1.0 N / mm<sup>2</sup> maximal pressure
- 2" thread

### Benefits & Features

- Designed to last in the tough marine environment
- BMC glass fiber polyester box, flame retardant
- Cabinet door can be opened both the right and left direction
- Stainless Steel lock and hinges
- Comes with applied SafeSign sign with 5 year warranty, even on outdoor use



Box with flange

Article number	Description	Dimensions	Weight
ISC-C	International shore connection complete (box, flange, sign)	285 x 260 x 70 mm	Approx. 7 kg
ISC-B	International shore connection box	285 x 260 x 70 mm	Approx. 4 kg
ISC-F	International shore connection flange	Ø 175 mm	Approx. 3 kg



## BESTO INFLATABLE TWIN CHAMBER LIFEJACKET



### General description

The Besto 300 Newton inflatable twin chamber lifejacket is an automatically operated lifejacket designed in accordance with the latest SOLAS/MED requirements and is designed for use on open sea and in the most extreme weather conditions.

### Technical data

Wearing size: 43+ kg  
 Buoyancy: 300N  
 CO<sub>2</sub> cylinder: 2x 60 g

### Benefits & Features

- Cordura cover and tailored design
- Strong zipper
- Twin chamber lifevest for optimal safety
- Fleece collar for extra comfort
- Orange and yellow model feature easy wipe clean fabric
- Double crotch strap
- Safety harness
- Standard system: Halkey Roberts V90000 or United Moulders MK5
- Also to be used when wearing heavy protective waterproof clothes



### Approval

- Wheelmark

### Standards

- SOLAS 74/96, IMO Res. MSC.48(66) & Res. MSC.54(66) and A689(17).

Article number	Description	Color/model	Dimensions	Weight
LJI-TW-RD	Besto 300N Twin chamber lifejacket	Red	530 x 260 x 50 mm	1,75 kg
LJI-TW-YE-WC	Besto 300N Twin chamber lifejacket	Yellow (wipe clean)	530 x 260 x 50 mm	1,75 kg
LJI-TW-OG-WC	Besto 300N Twin chamber lifejacket	Orange (wipe clean)	530 x 260 x 50 mm	1,75 kg
LJI-TW-RS	Recharge set	-	240 x 115 x 35 mm	0,30 kg

## BESTO INFLATABLE PROFESSIONAL STYLE LIFEJACKET

### General description

The Besto 300 Newton inflatable professional style lifejacket is an ergonomic offshore working jacket and can be used in the most extreme weather condition. The lifejacket will always rotate the body so the airways are clear of the water.

This model has a good body fit due to the soft outer cover and special neck shape. The collar is strapped onto the back, this gives a comfortable neck fit. Also it gives a good neck/ head support when the jacket is inflated.

The jacket comes standard with a crotch strap to enhance performance and freeboard. The jackets are finished with edge binding all-around and has a floating capacity of 300N. The jackets are available in various colours.

### Technical data

Wearing size: 40+ kg

Buoyancy: 300N

CO<sub>2</sub> cylinder: 60 g

### Benefits & Features

- Also to be used when wearing heavy protective waterproof clothes
- Automatic and manual activation
- Two reflective strips for better visibility



Fire Retardant



Article number	Description	Color/model	Dimensions	Weight
LJI-PR-BK-WC	Besto 300N professional style lifejacket	Black (wipe clean)	560 x 300 x 50 mm	1,22 kg
LJI-PR-YE-WC	Besto 300N professional style lifejacket	Yellow (wipe clean)	560 x 300 x 50 mm	1,22 kg
LJI-PR-OG-WC	Besto 300N professional style lifejacket	Orange (wipe clean)	560 x 300 x 50 mm	1,22 kg
LJI-PR-SR-FR	Besto 300N professional style lifejacket	Silver (fire retardant)	560 x 260 x 50 mm	1,20 kg
LJI-PR-RS	Recharge set	-	240 x 115 x 35 mm	0,30 kg



## LIFEJACKET LIGHT



### General description

The automatically water-activated LED lifejacket light with "off" function, is a 5-year SOLAS lifejacket light certified to use Alkaline batteries instead of standard Lithium batteries, simplifying light disposal on expiration. It significantly exceeds the requirements on brightness and duration. It's a very compact and the thin design and equipped with light bubble/ dome, but the integrity of inflatable lifejackets will be maintained. It is delivered with a clip, which fits almost any lifejacket.

The light is deactivated by pressing the power button on the front side. If the light after disruption is brought back to automatic mode, and water contacts are dry, splash water on the contacts and the light goes on again. Activation and deactivation is clearly marked on the label.



### Technical data

Light dome: 4 mm  
 Light duration: Min. 8 hours (60hrs max.)  
 Light intensity: 0.75cd light  
 Shelf life: 5 years

### Benefits & Features

- Automatically water activated and manual off switch
- High visibility orange color
- Supplied with a clip
- Operating temperature from -1 °C up to +30 °C
- Compatible with almost all standard lifejackets
- Made of waterproof ABS & Polycarbonate



### Approval

- Wheelmark

### Standards

- SOLAS/MED
- USCG

Article number	Description	Dimensions	Weight	IMPA
LJL-WA	Lifejacket light	61 x 30 x 21 mm	Approx. 42 g	330143

LIFEBUOY LIGHT



General description

Koyro Lifebuoy light K36 is well known throughout the global market as a reliable and efficient lifebuoy light. Batteries are replaceable and the lifebuoy light comes with brackets. It is designed to withstand the toughest rigours of the maritime environment and is completely watertight, corrosion-resistant and delivers, as a minimum standard, an omnidirectional over 2CD output for a minimum of two hours. The lifebuoy light is marked with SolasFlex Retro Reflective Tape for better visibility.

Technical Data

Connecting line: 1,5 m  
Light power source: 1 alkaline battery  
Ignition method: Mercury switch

Benefits & Features

- Long lasting
- High visibility
- High safety
- Replaceable batteries
- Includes mounting brackets
- LED light
- Equipped with SolasFlex Retro Reflective Tape



Approvals		Standards	
<ul style="list-style-type: none"><li>• Korean Register</li><li>• Wheelmark</li></ul>		<ul style="list-style-type: none"><li>• Complies with IMO / SOLAS MSC 81(70)</li><li>• Complies with MED Directive 96/98/EC and 2002/75/EC</li></ul>	

Article number	Description	Dimensions	Weight
LBL-K36	Lifebuoy light K36	79 x 79 x 171 mm	245 g



## PILOT LADDER



### General description

The pilot ladder is used for the pilot and crews getting in and out the vessel in normal situations. The pilot ladder has a spreader which is different from the embarkation ladder. The steps of each ladder are made of hard wood except for the last 4 steps, which are made of rubber.



### Technical data Pilot ladder

Step:	Hardwood (beech wood)
	The 4 lower steps of ladder are made of rubber
Spreader:	Hardwood (beech wood)
Side Ropes:	4 Strand Manila rope
Step Thimbles:	Hardwood (beech wood)
Rope clamp:	Aluminium



### Approvals

- Istituto Giordano
- Wheelmark

### Standards

- Complies with IMO Res. A1045(27), MSC / Circ. 1428,
- ISO 799 (2004), SOLAS 74 Conv. as, amended Reg. V23, X/3

### Article number

PILOT

### Description

Pilot ladder MED approved (custom length)

### Dimensions

Please specify required length

## EMBARKATION LADDER



### General description

An embarkation ladder extending from the deck to the waterline in the lightest seagoing condition under all conditions of a trim of up to 10° and a list of up to 20° either way, shall be provided at each embarkation station or at every two adjacent embarkation stations for survival craft launched down the side of the ship.



### Technical data Embarkation ladder

Step:	Hardwood (beech wood)
Spreader:	Hardwood (beech wood) Side
Ropes:	4 Strand Manila rope
Step Thimbles:	Hardwood (beech wood)
Rope clamp:	Aluminium

### Approvals

- Istituto Giordano
- Wheelmark

### Standards

- Complies with IMO Res. A1045(27), MSC / Circ. 1428,
- ISO 799 (2004), SOLAS 74 Conv. as, amended Reg. V23, X/3

Article number	Description	Dimensions
EMBAR	Embarkation ladder MED approved (custom length)	Please specify required length



## MAGNET LADDER LOCKER



### General description

The T-ISS Magnet ladder locker is designed to create a safer environment for staff & harbour pilots by providing safely removable anchor points for the ladder on the ship's side. The magnets are lightweight for easy handling, yet immensely strong, providing more than 500 KG of lift & pull ratings. The Magnet ladder locker is powder coated in bright orange for high visibility and is made to withstand the marine environment. It has no internal moving parts or entry points for sea water.

### Technical Data

Lift rate: 500 kg  
Pull rate: 520 kg

### Benefits & Features

The release handle will enable crew to remove the magnet from the hull easily and without excessive force. All T-ISS Magnet ladder lockers are standard supplied in a sturdy wooden storage box and comes with an IMO-type instruction poster, Storage Location sign and tightening belts.

### Set consists of:

- 2 pieces of the Magnet ladder locker
- 2 pieces of the Tightening Belt (IMPA 23.20.94)
- Sturdy wooden storage box
- IMO-type instruction poster / self-adhesive backing
- IMO-type location sign / self-adhesive backing



### Approval

- DNV

### Standards

- Complies with IMO / SOLAS A.1045(27)

Article number	Description	Dimensions	Weight
MT500	Magnet ladder locker (2 pcs)	260 x 230 x 90 mm	Approx. 3 kg
SSH	Sling with snap hook (2 pcs)	360 x 50 x 5 mm	127 gr

## PNEUMATIC LADDER LOCKER



### General description

The T-ISS Pneumatic ladder locker is used to secure the bottom of the accommodation ladder or gangway to the ship's side. The locker works with a vacuum pressure, supplied from your deck air supply. The Pneumatic ladder locker is the tool to increase safety on high free board vessels when accommodation ladders are used by the crew or pilots.

### Technical Data

Lift rate: 300 kg  
 Pull rate: 850 kg  
 Required: Compressor 1 HP or more

### Benefits & Features

The Pneumatic ladder locker is supplied in a sturdy storage box and comes with IMO type storage sign and instruction poster. Also, an air hose connection is included as well as a tightening belt. A compressor with a minimum of 1 HP is powerful enough to supply this system.

### Set consists of:

- Pneumatic ladder locker
- Tightening belt (IMPA 23.20.94)
- Sturdy wooden storage box
- IMO-type instruction poster / self-adhesive backing
- IMO-type location sign / self-adhesive backing



### Approval

- DNV

### Standards

- Complies with IMO / SOLAS A.1045(27)

Article number	Description	Dimensions	Weight
PNLVE-2	Pneumatic ladder locker	250 x 210 x 100 mm	Approx. 3 kg
SSH	Sling with snap hook (2 pcs)	360 x 50 x 5 mm	127 gr



## PNEUMATIC LINE THROWER



### General description

The BLT 250 Line thrower is a pneumatic system which throws projectiles by a compressed air system. It has 4 interchangeable launchers and the projectiles are easy to refill. Meets the demands of SOLAS/IMO regulation 74/83. Projectiles reaches approximately 250 meters, are only effected from crosswind and reach the maximum speed at the end of the launcher. All items are reusable and shelf life is unlimited. The only cost for four throws, is refilling the cylinder with your air compressor.

### Technical data

Weight throwing unit	8,3 kg
Weight projectile	2,1 kg
Materials	Aluminium, Stainless steel, MS58 Brass, PVC and ABS
Shooting chamber pressure	65 bar
Maximum Recoil	5400N
Average Nozzle Velocity	50,6m/s
Number of shots	4
Aluminium air cylinder pressure	200 bar
Aluminium air cylinder volume	2 l

### Benefits & Features

- No explosion, useable from and into flammable areas
- Complete set (4 projectiles, throwing unit, user manual, sturdy orange carrying bag)
- Optional wooden storage box available



### Approvals

- RINA
- USCG
- Wheelmark

### Standards

- SOLAS/IMO regulation 74/83

Article number	Description	Dimensions	Weight	IMPA
BLT250	BLT 250 Line thrower	1000 x 220 x 200 mm	Approx. 21 kg	331345
BLT250-BOX	Wooden box for BLT 250 Line thrower	1060 x 320 x 320 mm	Approx. 10 kg	331345

## EMERGENCY LEAK AND SEAL REPAIR KIT

### General description

The T-ISS Emergency Leak and Seal repair kit is a complete response kit that enables immediate action when situations demand it. Leakage on flanges, on piping or even a leaking drum can be sealed quickly and efficient. A wrench and water are all that's needed to use the ELS kit, no special training is required, but make sure the crew is familiar with the kit and working procedures. The ELS kit is versatile; use it for hazardous and non-hazardous chemical service.

### Technical Data

The contents of the ELS kit:

- Sturdy plastic carrying box
- Rubber hammer
- Utility knife
- Speed steel stick
- Fast plastic stick
- Rubber sheet (500 x 500 mm)
- Drip Stop Tape (3 sizes: 25/38/50 mm)
- Spray Control Tape (50 mm)
- Spray Stop Tape (35 mm)
- Pipe Repair Tape (3 sizes: 2",3",4")
- 3 pair of gloves



Article number	Description	Dimensions	Weight	IMPA
ELS-KIT	Emergency Leak and Seal repair kit	475 x 215 x 265 mm	7,2 kg	812368



## ASBESTOS SAFETY KIT

### General description

The T-ISS Asbestos safety kit, is a product to safely remove asbestos debris during the operation of a vessel. This product is used by a vessels crew to remove any harmful asbestos materials in a safe way, while the ship is operating at sea. The kit is not meant to be used for large scale asbestos removal, for example during the docking of the vessel.

All items in the kit are produced according to the EU quality standards for asbestos removal. All parts are approved by certified companies. The kit comes with a clear instruction manual that shows how to use it in a safe and adequate way.

The Asbestos safety kit contains the following items:

- HEPA vacuum cleaner including cleaner bags
- Personal Protective Equipment (PPE)
- Asbestos waste bags
- Asbestos warning stickers
- Duct Tape
- Glue spray
- Spray bottle with impregnating fluid
- Full instruction manual
- All certificates



### Approvals

- KIWA Oesterbaai
- DNV
- RINA
- BUREAU VERITAS
- Lloyd's Register

Article number	Description	Dimensions	Weight	IMPA
ASB-KIT	Asbestos safety kit	610 x 810 x 450 mm	25 kg	330967

# LIFEBOAT REPAIR KIT

## General description

Lifeboat repair is a high quality, solvent-free epoxy repair system for use in combination with various materials. When used with glasmat, chop strand mat or glass cloth, it is ideal for repairs on cracked, damaged or hollow GRP surfaces.

## Technical data

Adhesion tensile shear to ASTM D1002:	598 kg/cm <sup>2</sup> (900psi)
Compressive strength tested to ASTM D695:	1034 kg/cm <sup>2</sup> (14.500psi)
Flexural strenght tested to ASTM B790:	912 kg/cm <sup>2</sup> (13.600psi)
Hardness (once fully cured):	100 Rockwell R

## Benefits & Features

- Easy to use waterproof glue
- Hardens in a few minutes at room temperature
- Permanent waterproof 'field' repairs
- Strong and durable finish
- Adhesion on all common substrates
- 5-minute life span of the layer

## Packaging

- 303 Lifeboat resin: 2 x 300 g
- 706 Glass matt: 1 x 0,5 m<sup>2</sup>
- Cellophane: 1 x 0,625 m<sup>2</sup>
- Disposable glove: 2 pairs
- Brushes: 1 x 2"
- Stirring tool: 2
- Trowelling tool: 1
- Surface tissue: 1 x 0,35 m<sup>2</sup>
- Emery paper: 1 x 280 mm sheet
- Resin rem cream: 1 x 250 g
- White tub: 17 l



Article number	Description	Dimensions box	Weight	IMPA
LBR-KIT	Lifeboat repair kit	370 x 250 x 200 mm	Approx. 2,2 kg	330287



## UTILITY MANHOLE BARRIER

### General description

The T-ISS Utility manhole barrier is ideal for almost all pedestrian manhole applications, such as around manholes on ferry cardecks. It is easy to store and transport and it has improved stability over other competitors due to its unique double clip design.

The utility manhole barrier is available in two sizes, 750 mm and 1 meter per gate, it is suited to a wide range of applications - the 1 meter gate being particularly popular.

### Benefits & Features

- Unique 'double' clip allows for supreme rigidity when setup
- Moulded-in studs for secure interlocking when transporting
- Available with European height reflectors (250 mm)
- Easy to carry between and around work sites

### Common applications

- Around manholes on cardecks
- To prevent access to escalators and elevators
- Protect an area where a liquid has been spilled
- Surrounding trip hazards



Article number	Description	Dimensions	Weight
UMB-L	Utility manhole barrier L	750 mm	7,2 kg
UMB-XL	Utility manhole barrier XL	1000 mm	8,4 kg







# SOLAS MARITIME SAFETY TAPES





## INTRODUCTION

As one of the world's leading manufacturers and suppliers of maritime safety tapes, also called SOLAS tapes, we can offer you a wide variety of high quality tapes that are used globally to prevent incidents, protect equipment or personnel, mark or stick to objects. As a ship supplier, shipowner or lifesaving product manufacturer, we offer you the highest quality tapes required and approved by the Maritime and Offshore industry. You can be sure to find the right size, quality and design of Retro-Reflective tapes, Pipe marking tapes, Spray Stop tapes and many other types of tapes.

If you are unsure which of our tape to use for your particular situation, then please refer to our Maritime Tapes Buyer's Guide. In this document we explain and compare each tape to make sure you are using the right tape in each situation. You can read or download this Buyer's Guide on our website under "Downloads".

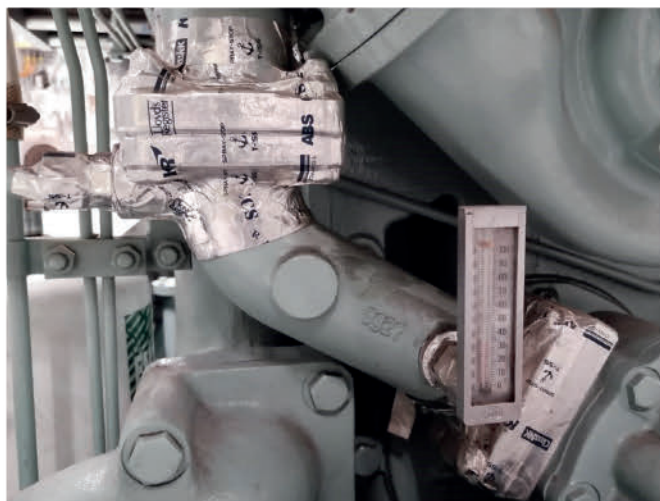




## SPRAY STOP ANTI-SPLASHING TAPE

### General description

T-ISS Spray Stop Anti-Splashing Tape is used for applications in the marine & offshore industry. This high-tech laminated multilayer aluminium tape, has been designed by safety specialists in order to prevent spray outs of hazardous liquids (oil / fuel) from tubing systems. These liquids can cause extremely dangerous situations like fires, explosions or other dangerous situations. According to SOLAS regulations, ships should apply appropriate protection to prevent leakage / splashing of flammable oil from FO, LO hydraulic and other systems.



### Technical data

Maximum pressure:	15 bar
Maximum temperature:	+160 °C continuously +200 °C shortly
Adh. material tolerance:	- 70 °C up to 200 °C
Adhesion:	1000 g / 25 mm
Shelf life:	3 years

### Approvals

- Bureau Veritas, Lloyd's Register, DNV, RINA, ClassNK, ABS, KR, CCS



Note; other widths available on request

### Standards

- Complies with the IMO A653 (16)

Article number	Description	Dimensions	Weight	IMPA
SPST0035	Spray Stop Tape	35 mm x 10 m	0,13 kg	871801
SPST0050	Spray Stop Tape	50 mm x 10 m	0,19 kg	871802
SPST0075	Spray Stop Tape	75 mm x 10 m	0,28 kg	871808
SPST0100	Spray Stop Tape	100 mm x 10 m	0,38 kg	871804
SPST0140	Spray Stop Tape	140 mm x 10 m	0,53 kg	871803
SPST0250	Spray Stop Tape	250 mm x 10 m	0,94 kg	871807
SPST0500	Spray Stop Tape	500 mm x 10 m	1,88 kg	871805
SPST1000	Spray Stop Tape	1000 mm x 10 m	3,75 kg	871806

## SPRAY STOP ANTI-SPLASHING TAPE 50+



### General description

T-ISS Spray Stop Anti-Splashing Tape 50+ has a slight difference compared to the regular version. Standard Spray Stop Tape will hold pressure up to 15 bar. Spray Stop Anti-Splashing Tape 50+ extends this limit to 50 bar. This means the tape will be particularly suitable for tubing systems that transport liquids under high pressure. Of course this tape can be used under the same circumstances as our standard Spray Stop Anti-Splashing tape.

### Technical data

Maximum pressure:	50 bar
Maximum temperature:	+160 °C continuously +200 °C shortly
Adh. material tolerance:	- 70 °C up to 200 °C
Adhesion:	1000 g / 25 mm
Shelf life:	3 years



Note; other widths available on request

### Approvals

- Bureau Veritas, Lloyd's Register, DNV, RINA, ClassNK, ABS, KR, CCS

### Standards

- Complies with the IMO A653 (16)

Article number	Description	Dimensions	Weight	IMPA
SPST50035	Spray Stop Tape 50+	35 mm x 10 m	0,19 kg	871801
SPST50050	Spray Stop Tape 50+	50 mm x 10 m	0,27 kg	871802
SPST50075	Spray Stop Tape 50+	75 mm x 10 m	0,40 kg	871808
SPST50100	Spray Stop Tape 50+	100 mm x 10 m	0,54 kg	871804
SPST50140	Spray Stop Tape 50+	140 mm x 10 m	0,76 kg	871803
SPST50250	Spray Stop Tape 50+	250 mm x 10 m	1,35 kg	871807
SPST50500	Spray Stop Tape 50+	500 mm x 10 m	2,70 kg	871805
SPST51000	Spray Stop Tape 50+	1000 mm x 10 m	5,40 kg	871806



## SPRAY CONTROL TAPE

### General description

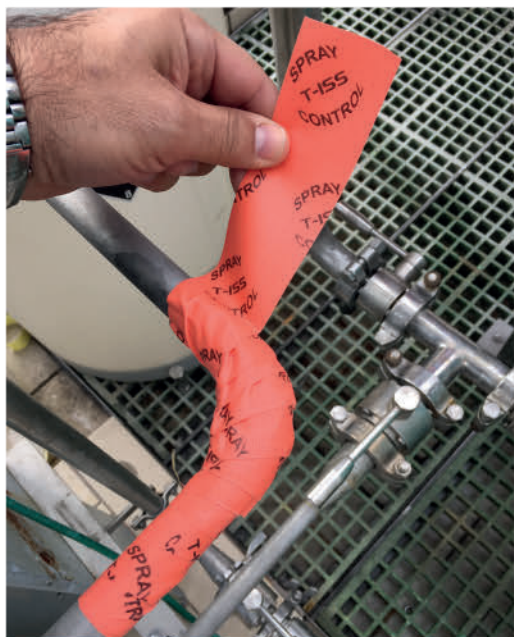
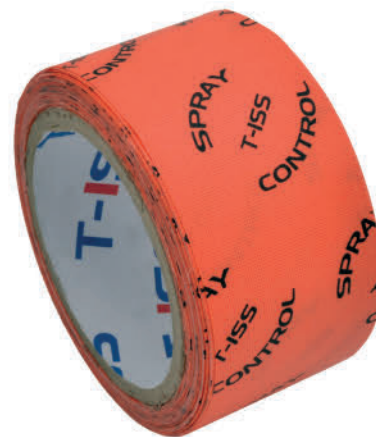
T-ISS Spray Control Tape is used to upgrade the safety in your pipeline systems. The protection tape makes surroundings a lot safer. Spray Control is made to prevent damages towards human, machinery and pipes by applying the tapes on flanges & valves at chemical plants. The pre-leak detection would help to save unnecessary expenditure for maintenance and repairing. Compared to Spray Shields & Flange Guards, the product can be directly used without any trial chore.

### Technical data

Max. temperature resistance: -30 °C up to 75 °C

Pressure resistance: Up to 35 bar

Material: Multilayer reinforced high grade vinyl



Article number	Description	Dimensions	Weight	Thickness
SPCT0050	Spray Control Tape	50 mm x 10 m	0,3 kg	1 mm
SPCT0100	Spray Control Tape	100 mm x 10 m	0,5 kg	1 mm
SPCT0150	Spray Control Tape	150 mm x 10 m	0,8 kg	1 mm
SPCT0300	Spray Control Tape	300 mm x 10 m	1,5 kg	1 mm

## DRIP STOP TAPE - NONE LEAK TAPE

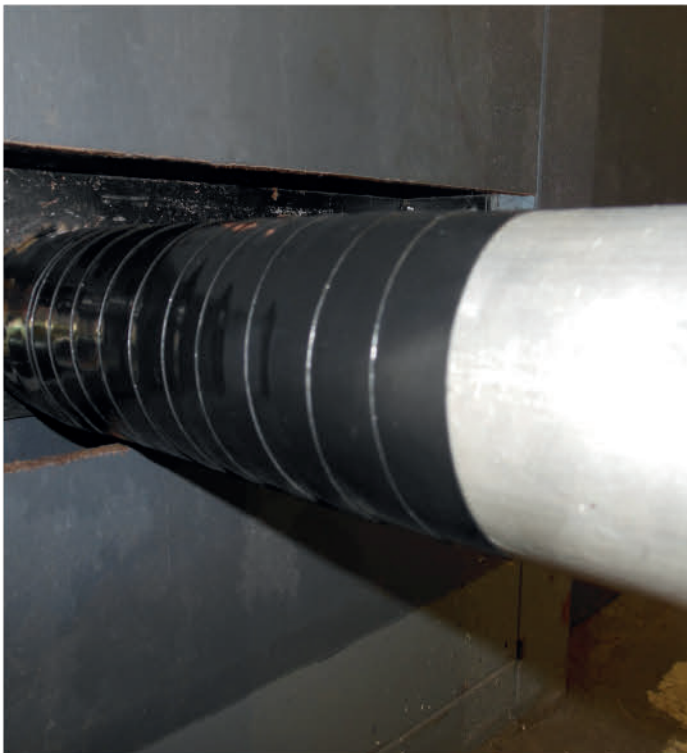
### General description

T-ISS Drip Stop Tape is easy to use, not using any adhesive components and it will not stick to the hand. The tape is made to stick on components. When applying it needs an overlap of half the width on the tape. The full cure time is approximately 20 – 30 minutes.

Drip Stop Tape can be used even on wet surfaces and pressurized leaking piping up to maximum 3 kg/cm<sup>2</sup>. It will even work under water. When being used in wet areas, it must be winded very tightly. The tape can also be used as a protection layer to prevent corrosion or as electric insulation.

### Technical data

Tensile strength:	32,8 kg / cm <sup>2</sup>
Elongation at brake:	435%
Volume resistivity:	6,1 x 10,150
Dielectric strength:	21 kV / mm
Dielectric constant:	0,03
Dissipation factor:	2,01



Article number	Description	Dimensions	Weight	Thickness	IMPA
DST025	Drip Stop Tape	25 mm x 10 m	0,1 kg	0,1 mm	812491
DST038	Drip Stop Tape	38 mm x 10 m	0,2 kg	0,1 mm	812492
DST050	Drip Stop Tape	50 mm x 10 m	0,3 kg	0,1 mm	812493



## PIPE REPAIR TAPE



### General description

T-ISS Pipe Repair Tape is a specially developed resin coated glass fiber cloth, which will set also under water. The fiberglass cloth tape is impregnated with a water activated resin prior to packaging. Normal setting time is approximately 20 minutes, depending on the temperature. The activator is normal salt or fresh water. This repair product sets even under water and because of this, it is ideal to use in difficult / wet applications. T-ISS Pipe Repair Tape can be used for corrosion prevention, reinforcement and electrical protection up to 16,000 volts.

### Technical data

Maximum pressure: 10 bar  
Maximum temperature: 200 °C

### Benefits & Features

One pack of T-ISS Pipe Repair Tape comes with:

- Pipe Repair pouch
- Pipe Repair FastSteel putty
- One pair of protective gloves
- Instruction manual



### Certificate

- Water Regulations Advisory Scheme (WRAS)

Article number	Description	Dimensions	Weight	IMPA
PRT002	Pipe Repair Tape 2"	50 mm x 1,5 m	0,1 kg	812364
PRT003	Pipe Repair Tape 3"	75 mm x 2,7 m	0,2 kg	812365
PRT004	Pipe Repair Tape 4"	100 mm x 3,05 m	0,4 kg	812363







## SOLASFLEX RETRO REFLECTIVE TAPE

**TYPE II Approved A658(16).**

**Highly weather resistant for continuous outdoor exposure.**

### General description

T-ISS SolasFlex Retro Reflective Tape is used for the reflection of SOLAS life saving appliances such as life jackets, life rafts or life boats. Our SolasFlex Retro Reflective Tape is an encapsulated lens sheet provided with a flexible and fully transparent plastic foil. The tape is specially designed for the marine / offshore industry, has a long life span, high clarity and anti-amination. All our reflective tapes consist of an encapsulated optical design with a high reflective value that is clearly visible from every angle, both in dry and wet conditions.

Our SolasFlex Retro Reflective Tape is type II approved according IMO A658(16), this means it can be used indoor as well as outdoor and is suitable for all applications, extreme weather conditions and continuous outdoor exposure.

By applying SolasFlex Retro Reflective Tape the life saving appliances will be highly visible, when for example helicopter lights are used to search for these objects.

**The tape is available as self-adhesive and stitchable.**







### Technical data

Thickness: 0,1 mm

### Benefits & Features

- Three different colors
- Tape reflects a clear bright white light
- High reflectivity over a wide range of entrance angles
- Type 2 Solasgrade reflectivity (indoor/outdoor use)
- Other widths available on request

### Approvals

- USCG, DNV, Wheelmark, Russian Register, Korean Register

### Standards

- Complies with IMO Res. A658(16) and meets USCG specification 46 CFR Part 164.

**Important warning:** reflective tape with a type I approval can only be used on indoor stored lifejackets and life rafts, this is not suitable for lifebuoys, lifeboats and other lifesaving equipment which are exposed to the environment.

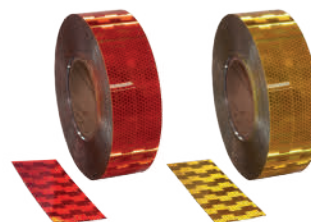


Article number	Description	Dimensions	Weight	IMPA	ISSA
SRTA0050	SolasFlex Retro Reflective Tape Adhesive	50 mm x 45,7 m	1,2 kg	330189	4700704
SRTA1220	SolasFlex Retro Reflective Tape Adhesive	1220 mm x 45,7 m	35,7 kg	-	-
SRTS0050	SolasFlex Retro Reflective Tape Stitchable	50 mm x 45,7 m	1,0 kg	-	-
SRTS1220	SolasFlex Retro Reflective Tape Stitchable	1220 mm x 45,7 m	27,7 kg	-	-

## MARINE REFLECTIVE TAPE

### General description

T-ISS high-quality self-adhesive Marine Reflective Tape meets several requirements, such as impact resistance and UV protection. The tape is made up of several layers of minuscule prisms which reflect the light perfectly and can be applied to various materials such as steel, plastic, aluminium, fibreglass, etc.



Article number	Description	Color	Dimensions	Weight
MRTA-050-RD	Marine Retro Reflective Tape adhesive	Red	50 mm x 50 m	1,3 kg
MRTA-050-YE	Marine Retro Reflective Tape adhesive	Yellow	50 mm x 50 m	1,3 kg



## SAFETY MARKING TAPE REFLECTIVE

### General description

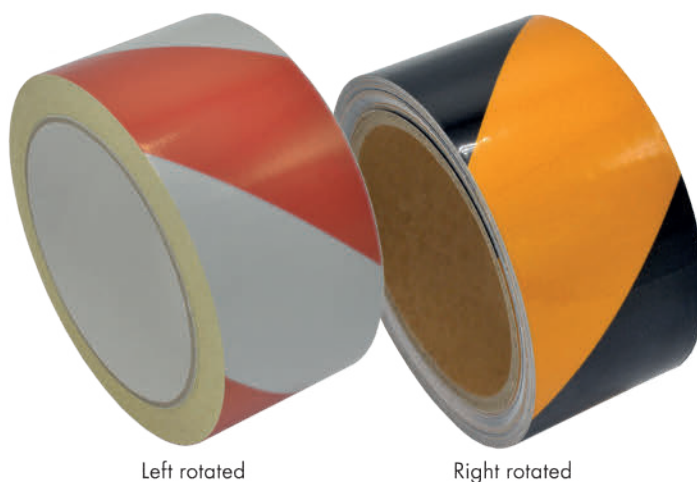
T-ISS Safety Marking Tape Reflective is an engineering grade reflective tape, used to provide safety and protection. Used to highlight hazards, it is over 200 times more reflective than white paint. Suitable for highlighting hazards and danger areas. Gives a 24/7 protection in and on your vessel.

### Technical data

Material: PVC  
Adhesive side: Single sided  
Purpose: Warning and marking

### Benefits & Features

- High visibility
- Providing optimal safety to prevent hazardous situations and accidents



Article number	Description	Color	Dimensions	Weight	IMPA
SMTR050R-R	Safety Marking Tape Reflective right	Red/white	50 mm x 10 m	0,3 kg	-
SMTR050R-L	Safety Marking Tape Reflective left	Red/white	50 mm x 10 m	0,3 kg	-
SMTR100R-R	Safety Marking Tape Reflective right	Red/white	100 mm x 10 m	0,6 kg	-
SMTR100R-L	Safety Marking Tape Reflective left	Red/white	100 mm x 10 m	0,6 kg	-
SMTR050B-R	Safety Marking Tape Reflective right	Yellow/black	50 mm x 10 m	0,3 kg	331191
SMTR050B-L	Safety Marking Tape Reflective left	Yellow/black	50 mm x 10 m	0,3 kg	-
SMTR100B-R	Safety Marking Tape Reflective right	Yellow/black	100 mm x 10 m	0,6 kg	331192
SMTR100B-L	Safety Marking Tape Reflective left	Yellow/black	100 mm x 10 m	0,6 kg	-

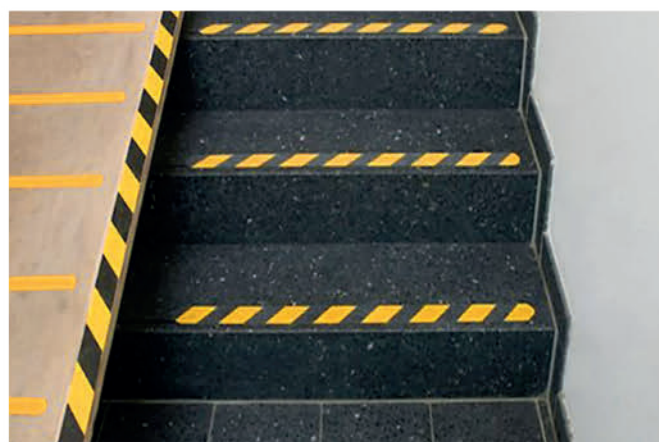
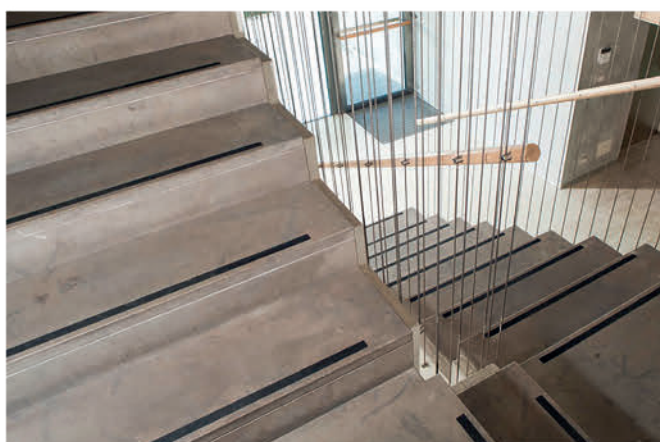
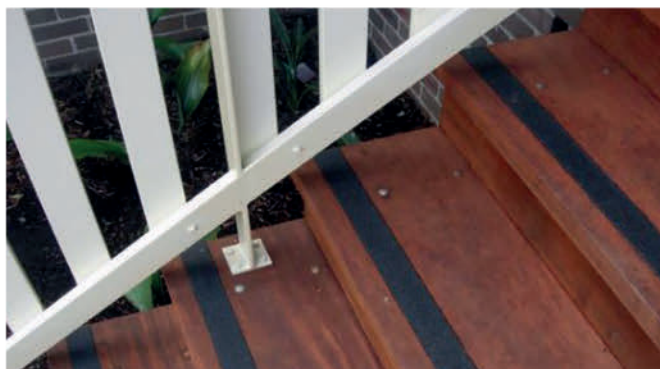
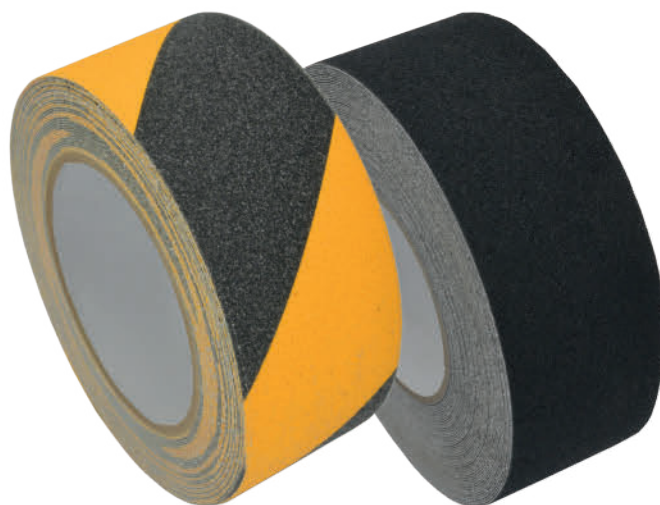
## ANTI-SLIP TAPE

### General description

T-ISS Anti-Slip Tape helps to protect slippery surfaces and to prevent accidents. This tape offers safe working and walking by when applied on stairs and walkways, both indoor and outdoor. Anti-Slip Tape is a mineral coated plastic film with a pressure sensitive adhesive protected by a removable liner. The tape is made using aluminium oxide mineral particles and has a solvent acrylic adhesive material. The tape can be applied in a temperature between 5 °C and 50 °C.

### Technical data

Thickness: 0,8 mm tape + 1 - 0,2 mm grit  
 Steel adhesion: 1500 g / 25 mm  
 Tensile strength: 6 kg / 25 mm  
 Elongation / break: 2596  
 Application temp: 5 °C up to 50 °C



Article number	Description	Color	Dimensions	Weight
AST0025BK	Anti-Slip Tape	Black	25 mm x 18 m	0,3 kg
AST0050BK	Anti-Slip Tape	Black	50 mm x 18 m	0,6 kg
AST0100BK	Anti-Slip Tape	Black	100 mm x 18 m	1,2 kg
AST0150BK	Anti-Slip Tape	Black	150 mm x 18 m	1,8 kg
AST0050YB	Anti-Slip Tape	Yellow/black	50 mm x 10 m	0,6 kg
AST0100YB	Anti-Slip Tape	Yellow/black	100 mm x 10 m	1,2 kg



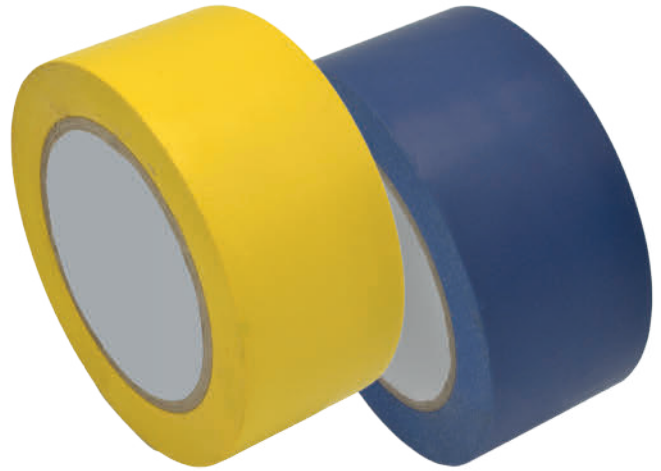
## FLOOR MARKING TAPE

### General description

T-ISS Floor Marking Tape is a tape that was designed for marking floors and walkways to highlight safety hazards. T-ISS Floor Marking Tape has an extremely high durability towards tough surroundings with its excellent adhesive quality. Marking dangerous areas with this floor tape is the first step to increase safety.

### Technical data

Material:	PVC
Adhesive:	Natural rubber adhesive
Carrier:	0.135 mm
PVC Film Appl. temp:	0-50 °C
Total thickness:	0.15 mm
Temperature:	0-90 °C
Tensile strength:	25 N / cm
Elongation:	150 %



Article number	Description	Color	Dimensions	Weight
FLT050BU	Floor Marking Tape	Blue	50 mm x 33 m	0,3 kg
FLT050GN	Floor Marking Tape	Green	50 mm x 33 m	0,3 kg
FLT050RD	Floor Marking Tape	Red	50 mm x 33 m	0,3 kg
FLT050YE	Floor Marking Tape	Yellow	50 mm x 33 m	0,3 kg
FLT050BK	Floor Marking Tape	Black	50 mm x 33 m	0,3 kg

## BARRIER TAPE

### General description

T-ISS Barrier Tape can be used for depositing, marking prohibited or dangerous places. The red/white or black/yellow barrier tape is popular because of the striking hazard colors.

### Technical data

Material: Flexible PVC barrier tape  
 Length: 500 m  
 Weight: 950 gr  
 Adhesion: Non-adhesive  
 Thickness: 0,03 mm

### Benefits & Features

Barrier tape comes in a convenient dispenser box which allows you to obtain the tape length you need, rip off that part, and store the dispenser box in a suitable place. Ideal for tying to fencing, cones & other fixed points.



Article number	Description	Dimensions	Color
BT080RW	Barrier Tape	80 mm x 500 m	Red/white
BT080YB	Barrier Tape	80 mm x 500 m	Yellow/black



## LIGHTLINE PHOTOLUMINESCENT TAPES



### General description

T-ISS manufactures various photoluminescent tapes to indicate escape routes on cruise ships, oil tankers, ferries, roll-on/roll-off ships and many other vessel types. These tapes are being made using PVC, PU or PET materials.

The PU material tape is especially used for applications with rounded surfaces and locations where heavy duty materials are required.

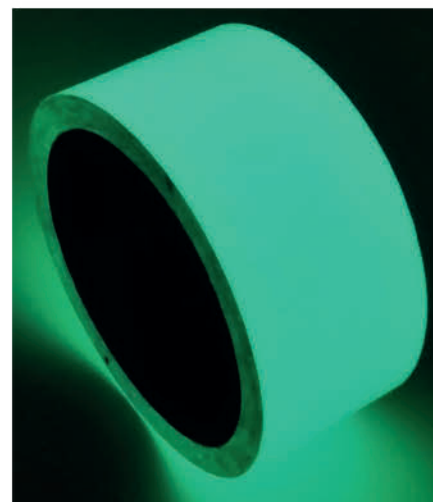
All the photoluminescent tapes complies with the IMO & SOLAS regulations. They have a strong adhesive layer which ensures an extremely good adhesion on many different substrates. The tapes are specially designed for mounting on board of ships and have excellent aging and weather resistant properties. Because of these properties the tapes are suitable for both indoor and outdoor applications/usage. The photoluminescent tapes are not only applicable in the maritime and offshore sector but also in the installation business, such as office buildings and hallways.



### Technical data

Elongation	24%
Weight:	300 g - 40 mm, 375 g - 50 mm, 600 g - 80 mm
Thickness:	0,175 mm
Tensile strength:	Approx. 5 kg

Luminance intensity (mcd / m <sup>2</sup> )	10 min	60 min
Class XXL	210	30
Class XL	100	10



### Approvals

- Wheelmark
- DNV

### Standards

- The product complies with IMO A752(18) and ISO 15370 which include ships and marine technology / low location lighting on passenger ships arrangements.

### T-ISS LightLine Tape PET

Other widths available on request

Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTP040CN	LightLine Tape PET neutral	40 mm x 10 m	XXL	-	-
LLTP050CN	LightLine Tape PET neutral	50 mm x 10 m	XXL	-	-
LLTP080CN	LightLine Tape PET neutral	80 mm x 10 m	XXL	-	-


**T-ISS LightLine tape PVC**


Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTV040CN	LightLine Tape PVC neutral	40mm x 10mtr	XXL	332014	4752014
LLTV050CN	LightLine Tape PVC neutral	50mm x 10mtr	XXL	-	-
LLTV080CN	LightLine Tape PVC neutral	80mm x 10mtr	XXL	332018	-
LLTV040BN	LightLine Tape PVC neutral	40mm x 10mtr	XL	332014	4752014
LLTV050BN	LightLine Tape PVC neutral	50mm x 10mtr	XL	-	-
LLTV080BN	LightLine Tape PVC neutral	80mm x 10mtr	XL	332018	-



According ISO 15370;  
Only dead-end corridors

Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTV040CA	LightLine Tape PVC arrow	40mm x 10mtr	XXL	-	-
LLTV080CA	LightLine Tape PVC arrow	80mm x 10mtr	XXL	-	-
LLTV040BA	LightLine Tape PVC arrow	40mm x 10mtr	XL	-	-
LLTV080BA	LightLine Tape PVC arrow	80mm x 10mtr	XL	-	-



According ISO15370; Please note; this tape is delivered with 3x ES1032, 3x ES1033, 3x ES1004, 3x ES1005 stickers. Other symbols upon request.

Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTV040CE	LightLine Tape PVC escape direction	40mm x 10mtr	XXL	332024	4752024
LLTV050CE	LightLine Tape PVC escape direction	50mm x 10mtr	XXL	-	-
LLTV080CE	LightLine Tape PVC escape direction	80mm x 10mtr	XXL	332028	-
LLTV040BE	LightLine Tape PVC escape direction	40mm x 10mtr	XL	332024	4752024
LLTV050BE	LightLine Tape PVC escape direction	50mm x 10mtr	XL	-	-
LLTV080BE	LightLine Tape PVC escape direction	80mm x 10mtr	XL	332028	-





## SAFETY MARKING TAPE PHOTOLUMINESCENT

### General description

T-ISS Safety Marking Tape Photoluminescent is used to show contours in spaces. The outlines of (emergency) exits, obstacles and areas to be kept clear or for example, fire extinguishers can be marked with luminous Safety Marking Tapes.

The Safety Marking Tapes Photoluminescent complies with the IMO & SOLAS regulations, have a strong adhesive layer and are suitable for both indoor and outdoor applications/usage.

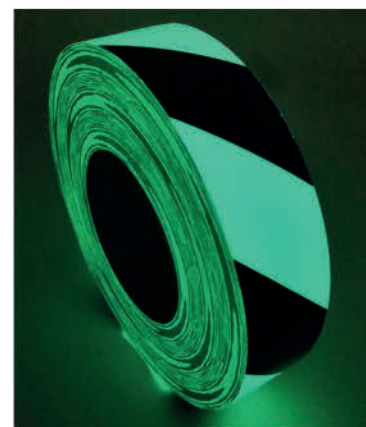
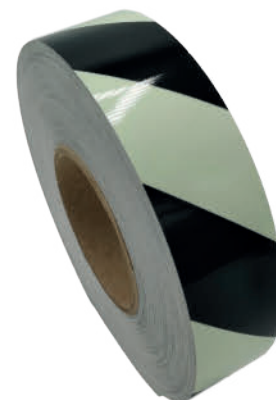
### Technical data

Elongation	24%
Weight:	300 g - 40 mm / 600 g - 80 mm
Thickness:	0,175 mm
Tensile strength:	Approx. 5 kg

Luminance intensity (mcd / m <sup>2</sup> )	10 min	60 min
Class XXL	210	30
Class XL	100	10

### Standards

- The product complies with IMO A752(18) and ISO 15370 which include ships and marine technology / low location lighting on passenger ships arrangements.



Other widths available on request

Article number	Description	Dimensions	Quality	IMPA	ISSA
SMTV040CG	Safety Marking Tape PVC green	40 mm x 10 m	XXL	332034	4752034
SMTV080CG	Safety Marking Tape PVC green	80 mm x 10 m	XXL	332038	-
SMTV040BG	Safety Marking Tape PVC green	40 mm x 10 m	XL	332034	4752034
SMTV080BG	Safety Marking Tape PVC green	80 mm x 10 m	XL	332038	-



Other widths available on request

Article number	Description	Dimensions	Quality	IMPA	ISSA
SMTV040CR	Safety Marking Tape PVC red	40 mm x 10 m	XXL	332054	4752054
SMTV080CR	Safety Marking Tape PVC red	80 mm x 10 m	XXL	332058	-
SMTV040BR	Safety Marking Tape PVC red	40 mm x 10 m	XL	332054	4752054
SMTV080BR	Safety Marking Tape PVC red	80 mm x 10 m	XL	332058	-



Other widths available on request

Article number	Description	Dimensions	Quality	IMPA	ISSA
SMTV040CB	Safety Marking Tape PVC Black	40 mm x 10 m	XXL	332044	4752044
SMTV080CB	Safety Marking Tape PVC Black	80 mm x 10 m	XXL	332048	-
SMTV040BB	Safety Marking Tape PVC Black	40 mm x 10 m	XL	332044	4752044
SMTV080BB	Safety Marking Tape PVC Black	80 mm x 10 m	XL	332048	-

## SECURITY SEAL TAPE

### General description

T-ISS offers various layouts of reliable Security Seal Tapes, also called warranty void labels. These are made of tamper evident destructible PET. When using this Security Seal Tape, you can quickly see if your goods have been tampered with. It shows the "OPEN VOID" hidden security message as soon as the warranty tape is removed from the surface of a carton box or other applications. These SecuSeal Tapes seal of and provide extra protection.

Our Security Seal Tape can be applied to a large range of surfaces including paper, card, metal, glass and many more. Void tapes are mainly used for forensic intelligence investigation, military, banking security, aviation security, medical packaging seals, electronic goods protection and other.

### Technical data

Adhesion:	Pressure sensitive
Minimum Shelf life:	2 years
Thickness:	25 Micron
Color:	Various colour's, layouts and sizes are possible according to the customers demands. Production of individual labels or on roll. Also custom made labels possible.
Material:	PET, Halogen free, NON-PVC



### Benefits & Features

Security Seal Tapes help you to reveal tampering or unauthorized access. High value goods need to have a security/safety seal. This seal protects the luxury goods from theft and fraud during shipment and storage. Our Security Seal Tapes reveal the hidden security message when tampering has occurred. Even if someone tries to replace it, the void tape will show that an individual attempted to break into it.



Security Seal Tape (open void tape) provides the best solution when evidence is required of tampering. Our guarantee seal or guarantee tape provide a visible indication of attempt of removal. After removing, since most of adhesive remains on the surface (and little to none on the tape film), the tape film cannot be reused, which is an added security feature against unauthorized reuse of the tape.

Article number	Description	Dimensions	Weight	Thickness
SST035DNB	Security Seal Tape - Do not break	35 mm x 10 m	73 gr	25 mu
SST035VIB	Security Seal Tape - Void if broken	35 mm x 10 m	73 gr	25 mu
SST035CM	Security Seal Tape (custom-made)	35 mm x 10 m	73 gr	25 mu



## BIOSOLUBLE HEAT STOP TAPE

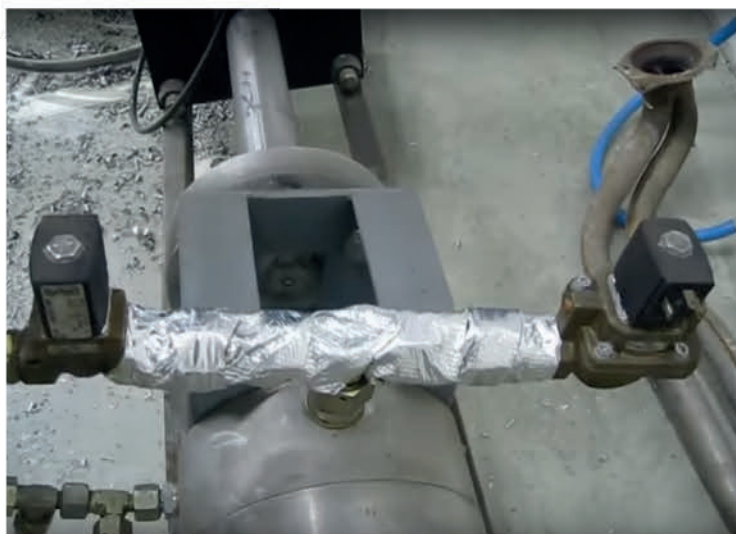
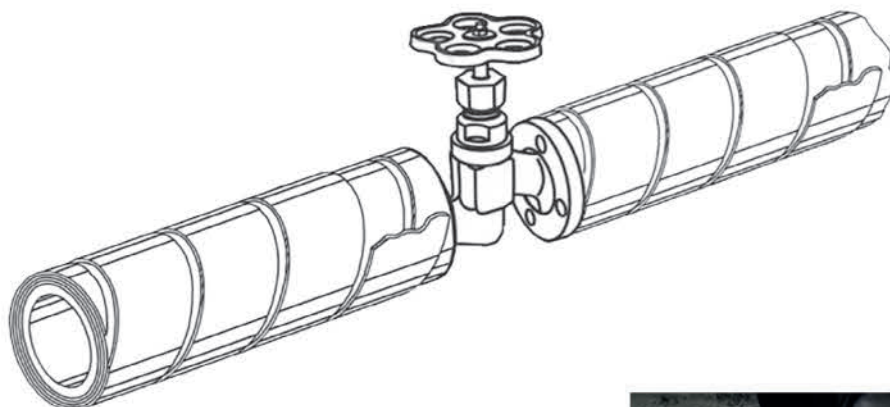
### General description

T-ISS Biosoluble Heat Stop Tape is a revolutionary new environmental friendly tape and is used for insulation of hot piping systems on board ships. It was specially invented to replace the ceramic fiber tape in the maritime sectors. T-ISS Biosoluble Heat Stop Tape is made of a biosoluble fiber chemical composition which is different from regular ceramic fiber, the biosoluble fiber has a better performance and it is biodegradable. It protects surfaces and lowers temperatures in a highly effective way.

T-ISS Biosoluble Heat Stop Tape is a woven fabric made of superior biosoluble fiber. This special tape contains about 15-18% binder materials which gives it superior heat resistance. Inwoven stainless steel wire and the fiber-glass filament inside will keep the biosoluble fiber tape high temperature performance when it is used.

### Benefits & Features

- No cracking and no hardening
- Cold and wet surface application is possible
- ECO friendly



### Standards

- Meets SOLAS Regulation II/2/12.2.10
- Complies with MSC 61 (67)
- GTS Verification of Compliance
- EN 14306:2009 + A1:2013

Article number	Description	Dimensions	Weight	Thickness
HST050	Heat Stop BIO Tape	50 mm x 7,7 m	252 gr	3 mm
HST100	Heat Stop BIO Tape	100 mm x 3,3 m	609 gr	12,5 mm

## CORROSION STOP ZINC TAPE

### General description

T-ISS Corrosion Stop Zinc Tape will prevent galvanic corrosion and protects new and existing steel parts such as bridge supports, pipelines and other marine structures. Corrosion Stop Zinc Tape is made of a high purity zinc with a high tack self-adhesive backing.

T-ISS Corrosion Stop Zinc Tape has a sacrificing role in the oxidation process. Instead of the two metals that are attached to each other, the tape will oxidize and so protect the two other metals. The same principle is put into practice on vessels; anodes are placed on the ship's hull. These anodes will rust instead of the hull which results in a hull that's rust-free for a longer period of time.

### Technical data

Material:	Zinc layer (39%)
Adhesive:	Acrylate
Adhesion to steel:	>70N /100 mm
Thickness:	0,1 mm zinc, 0,05 mm adhesive
Temp. resistance:	up to 115 °C
Shelf life:	12 months

### Benefits & Features

The zinc layer on the tape will not be infiltrated by water, gas, etc. Also, the tape will not age due to UV light so there will be no corrosion from the inner layer.



Article number	Description	Dimensions	Weight	Thickness	IMPA
CSZT025	Corrosion Stop Zinc Tape	25 mm x 20 m	429 gr	1 mm	673521
CSZT050	Corrosion Stop Zinc Tape	50 mm x 20 m	771 gr	1 mm	673522
CSZT100	Corrosion Stop Zinc Tape	100 mm x 20 m	1386 gr	1 mm	673523



## RUST STOP PETRO TAPE

### General description

T-ISS Rust Stop Petro Tape is an anti-corrosion tape which can be applied to all types of steel and steel structures, including pipes and pipelines. The tape provides an excellent resistance to water, acids, alkalies and salts. It is an appropriate long-term solution against corrosion. Even under water, under the ground and in harsh weather conditions, the tape retains its excellent properties and won't peel, harden or crack. The tape is easy to apply and requires a very short processing time. The tape is solvent-free.



Article number	Description	Dimensions	Weight	Thickness	IMPA
RSPT050	Rust Stop Petro Tape (36 pcs)	50 mm x 10 m	0,7 kg	1,2 mm	812471
RSPT100	Rust Stop Petro Tape (18 pcs)	100 mm x 10 m	1,4 kg	1,2 mm	812472



## **HATCH COVER BLUELINER TAPE**

### **General description**

Extreme weather conditions can cause leakage of your hatch covers, which can lead to damage of the cargo being transported. T-ISS Hatch Cover Blueliner Tape keeps moisture out and ensures a tight seal that's weather and smoke resistant. The tape has an extraordinary strength, great adhesion and is extremely flexible. The tape is easily recognizable by the blue top layer of modified PE material. This material gives the highest protection under extreme conditions.

### **Technical data**

Characteristic: 20 m / self-adhesive SBS bitumenrubber coated  
Heat resistance: -15 °C up to 40 °C  
Shelf life: 2 years



### **Benefits & Features**

Hatch Cover Blueliner Tape is tested under practical environments and extreme weather conditions. The tape can be installed between 5 °C and 40 °C, and can withstand -15 to 70 °C. Rolls are 20 meter of self-adhesive SBS bitumen rubber compound, coated to a modified blue PE liner and with a release PE Liner.



Article number	Description	Dimensions	Weight	Thickness	IMPA
HCT100	Hatch Cover Tape (3 pcs)	100 mm x 20 m	4,5 kg	2 mm	232452
HCT150	Hatch Cover Tape (2 pcs)	150 mm x 20 m	7,0 kg	2 mm	232453



## FOAM MOUNTING TAPE

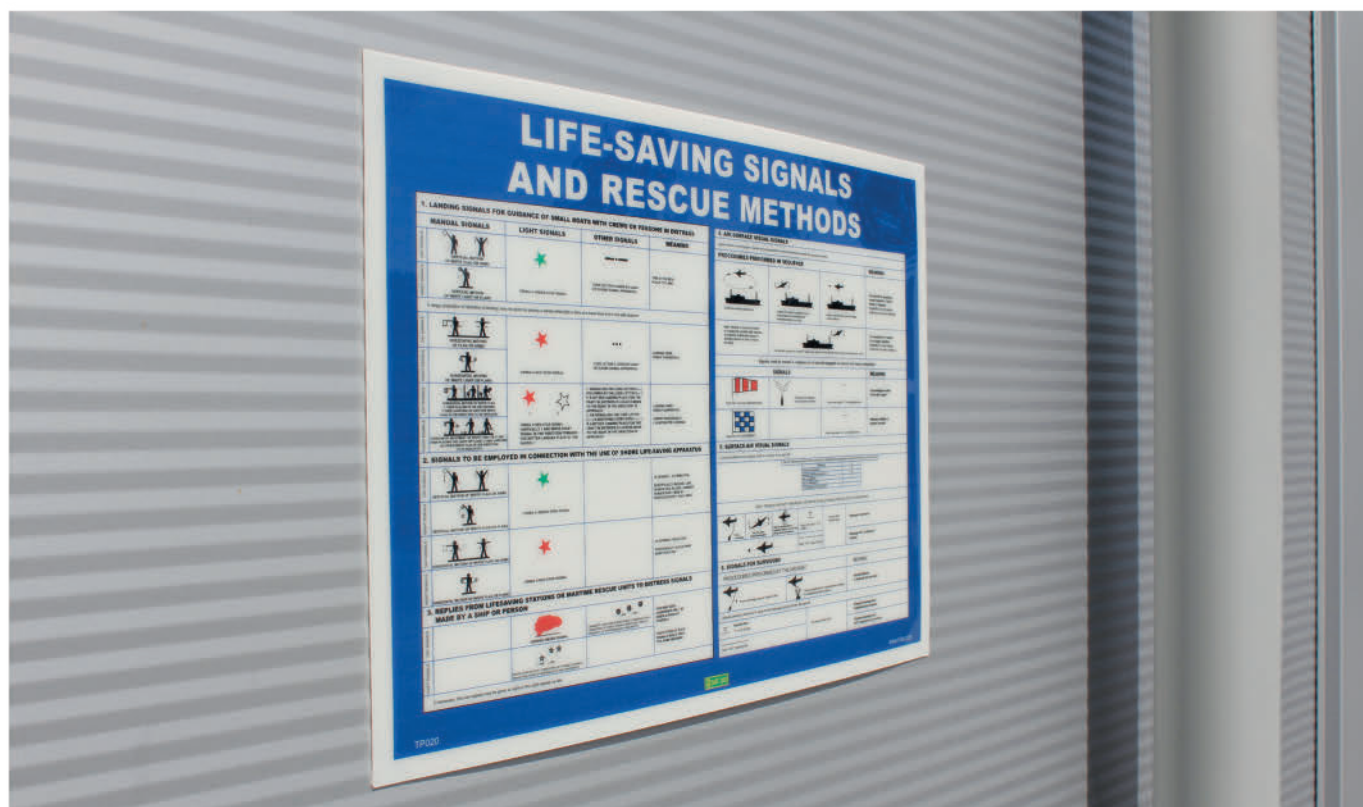
### General description

T-ISS Foam Mounting Tapes are closed-cell, polyethylene foam, coated with a high tack / high shear acrylic adhesive. It has superior chemical and fuel resistance, and good outdoor weather resistance. It has excellent adhesive performance in the area of tack, shear and adhesion.

High tack permanent adhesive with excellent aging and weather resistant properties specifically designed for mounting and joining nameplates, plastic trim, signs and emblems. Used on board of all types of vessels to install signage or to fix products to a surface.

### Technical data

Peel adhesion:	PSTC-3.1.8 kg / 25 mm
Shear strength:	PSTC-7 over 72 hours
Heat resistance:	Over 24 hours
Service temperature:	-30 °C ~ 120 °C
Strength:	1.8 kg/25 mm



Other widths available on request in 10 and 50 m length

Article number	Description	Dimensions	Weight	Thickness
FMT10-020	Foam Mounting Tape	20 mm x 10 m	0,07 kg	1 mm
FMT10-040	Foam Mounting Tape	40 mm x 10 m	0,10 kg	1 mm
FMT10-050	Foam Mounting Tape	50 mm x 10 m	0,12 kg	1 mm
FMT50-150	Foam Mounting Tape	150 mm x 50 m	1,80 kg	1 mm







# IMO SAFETY SIGN SYSTEM PRODUCTS



# INTRODUCTION

We are proud to offer the complete range of all components for the full execution of safety signing systems. For those who are responsible for the health and safety of people, independent for workers, crew, passengers or other public, implementing of an effective safety signing system is a strategic and operational decision.

An appropriate implementation reduce risks across language barriers by using worldwide standardized symbols in a systematic way.



We offer all types of signs both electrical illuminated, certified photoluminescent, retroreflective and other qualities inclusive a full range of installation accessories.

Development of the safety sign system is 'craftmanship'. T-ISS offer the full service for engineering and advice and can also provide the complete installation.



# ELECTRICAL ESCAPE SIGNS



## ELECTRICAL ESCAPE SIGNS

We offer a selected range of electrical escape signs for installation in an escape route signage system. Electrical escape signs are used to show personnel and guests where to go in the event of a fire or other emergency. Electrical escape signs are an essential part of an effective escape route signage system to create a coherent whole of Low location lighting, including escape signs, signs applied at eye level, signage indicating how to reach the assembly station(s) and instructions for guests and staff in the cabins and common areas.

### Why choose led escape signs

Visibility, brightness and long life are the key factors when purchasing illuminated escape signs. Light emitting diode or LED escape signs have proven to be successful in reducing electricity consumption up to 85%. LED escape signs can save money and power while emitting considerable amounts of light. Because LED lights don't have a wire to burn out, they also have a much longer lifespan, making them more cost-efficient. A led escape sign is very bright and visible and can be seen even through some smoke.



A lot can happen in an emergency situation, including a loss of wired electrical power. Naturally, finding the way to safety (eg an embarkation station on a ship) in these situations are critical, which is why some of our led escape signs are offered with battery backups. If electricity cuts out, the sign automatically begins drawing from its installed batteries to provide uninterrupted illumination.





## MARITIME SAFESIGN LED ESCAPE SIGN



### General description

Our 'Dutch Design' premium quality range of LED Escape signs are designed to clearly identify escape routes, executed in a timeless design that fits in with contemporary naval architecture. Our range of LED Escape signs allow for easy installation and provide a reliable and stylish solution for use onboard cruise ships, ferries, offshore installations and commercial ships.

The LED Escape signs are IP44 protected, CE approved and are available in two formats, recessed and surface mounted, offering 'fit and forget' LED technology providing a long lifespan of at least 40.000 hours.



Recessed installation model



Surface installation model



### Electrical and photoluminescent in one: the best of both worlds

As a result of an innovation that comes from our many years of experience in supplying various markets with photoluminescent signs and Low Location Lighting, we have combined two techniques in our SafeSign LED Escape signs; the main power source is electricity, but when the power is lost as a result of a calamity, the photoluminescent capabilities of the sign take over, providing the users with a very clear sign to the exit.



Normally powered



After power loss (10 minutes, 857 mcd/m<sup>2</sup>)



After power loss (1 hour, 119 mcd/m<sup>2</sup>)



After power loss (3 hours, 22 mcd/m<sup>2</sup>)

### Examples safety sign layouts

See "Escape Route signs" page 84 to 93 for all layouts.



### Technical data



Input voltage:	AC 90~240V 50~60HZ
Power:	4W
Lifespan:	+40.000hrs
Viewing distance:	> 24 m
Class:	CE approved
Protection:	IP44
Material:	Flame retardant ABS plastic
Extra:	Exchangeable signs upon request
Frame color:	RAL 9022
Optional:	Other frame colours available upon request for larger orders

### How to order:

When ordering this LED escape sign, please use the following notation for the fixture type in conjunction with your desired safety sign: <article number> + <sign number>. For example: LX070RLD + ES5134.

### Approval

- CE approved
- RINA

Article number	Description	Type	Weight	Dimensions
LX070RLS	LED Escape sign recessed installation Insert height 70 mm	LED single sided	1300 g	430 x 125 x 114 mm
LX070RLD		LED double sided	1200 g	430 x 125 x 114 mm
LX070RPS		LED photoluminescent single sided	1300 g	430 x 125 x 114 mm
LX070SLS	LED Escape sign surface installation Insert height 70 mm	LED single sided	1500 g	430 x 125 x 114 mm
LX070SLD		LED double sided	1400 g	430 x 125 x 114 mm
LX070SPS		LED photoluminescent single sided	1500 g	430 x 125 x 114 mm



## EXPLOSION PROOF LED LARGE ESCAPE SIGN



### General description

The Explosion Proof LED Large Escape Sign is designed to operate in hostile environments. Constructed from corrosion resistant materials, this Escape light sign can be used in indoor and outdoor areas that are subject to water spray or moisture. This Escape Sign fixture was designed to function in areas where flammable gases or vapors and/or combustible dust exist. In these types of environments, a normal fixture could accidentally ignite an explosive reaction. As a result, the DAESUVE GH01 is the ideal Escape Sign in engine rooms of LNG-powered vessels.

### Technical data

Capacity: 25 W

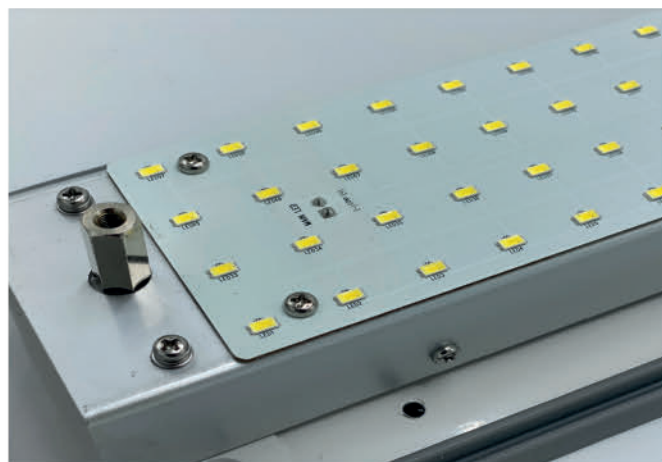
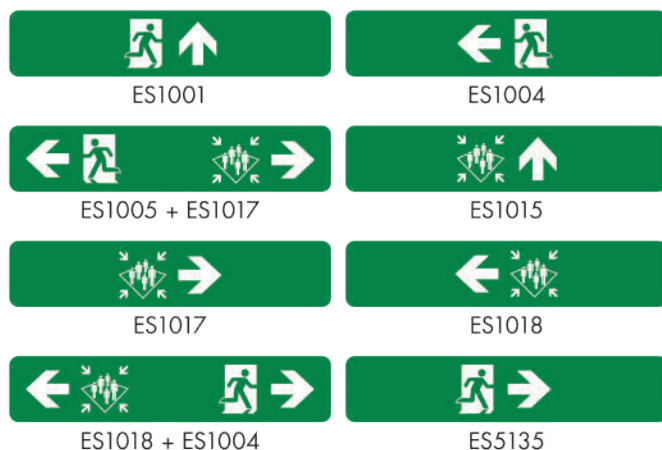
Materials:

- Body: Glassfiber Reinforced Polyester
- Globe: Clear polycarbonate

Protection degree: IP66 /IP67

### Examples safety sign layouts

See "Escape Route signs" page 84 to 93 for all layouts.



### Approval

- Wheelmark

### How to order:

When ordering this LED escape sign, please use the following notation for the fixture type in conjunction with your desired safety sign: <article number> + <sign number>. For example: LXP200S + ES5135.

### Standard

- EU-type examination certificate by KR Hellas

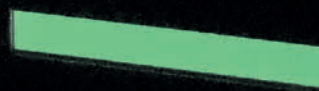
Article number	Description	Dimensions	Weight
LXP200S	EX Proof LED Large Escape Sign	745 x 213 x 147 mm	6,5 kg







# LOW LOCATION LIGHTING



## LOW LOCATION LIGHTING SYSTEM

When the light suddenly goes out or the room is heavily darkened, e.g. due to smoke development, photoluminescent materials offer the perfect solution. Routes to the exits, obstacles, emergency exits, stairs and safety equipment should be marked with Low Location Lighting. Our glowing tapes, strips and LED systems are often used to create an escape route guidance system according to IMO, SOLAS and ISO regulations. T-ISS also realizes on a project basis the implementation of Low Location Lighting systems, measurements and certifications.



### Innovations

In 2009 T-ISS started an innovative project with the objective to improve the quality and environmental footprint of photoluminescent signs and Low Location Lighting tapes and strips. Today most sign makers use PVC, despite the fact that PVC is the single most environmentally damaging of all plastics. PVC contains halogens and their toxicity of smoke is of highest concern within enclosed spaces, which you will find on-board any ship or platform.

### PET-X instead of PVC

During our innovation project we managed to replace PVC with a safe material, a modified recyclable polymer called PET-X, which is free of halogens. Besides this new material the innovation went on, and we managed to innovate our printing process in such a way that the expected life is up to 5 times longer than the market average. The last upside is the visual appearance, SafeSign signs and Low Location Lighting strips have a high quality glossy finish, which is easy to clean. The use of these new materials and techniques helped us to achieve innovative product which is also more economical and looks better.



## RULES AND REGULATIONS

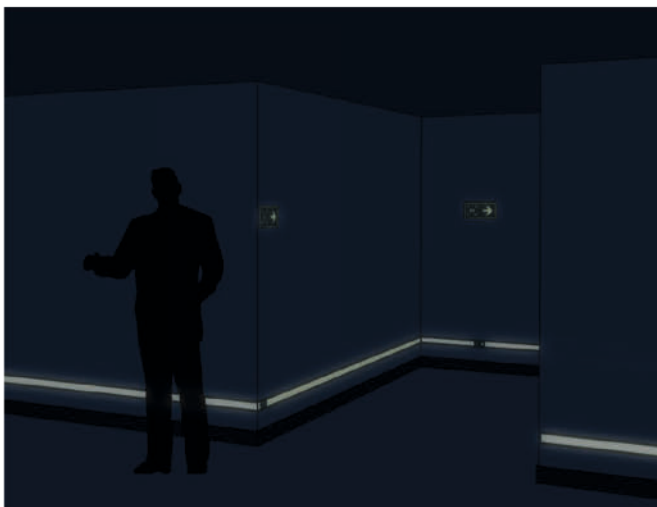
The below rules, regulations and standards describe the technical performance and properties of the products used, how to install these products/systems and how to certify and maintain these products/systems.

Standard	Description
IMO Resolution A.752 (18)	Guidelines for the evaluation, testing and application of LLL on passenger ships
SOLAS Convention 2004	Means of escape - Marking of escape routes
European Directive 2002/25/EC	Safety rules and standards for passenger ships
ISO 15370	Low Location Lighting (LLL) on passenger ships
ISO 16069	SWGS - Safety Way Guidance Systems
ISO 24409-2:2014	Ships and marine technology -- Design, location and use of shipboard safety signs, fire control plan signs, safety notices and safety markings
ISO 17398:2004	Safety colours and safety signs - Classification, performance & durability of safety signs

### Requirements

T-ISS is a specialist for Low Location Lighting systems on Cruise Liners & Ferries. IMO & Solas regulations require that ships carrying more than 36 passengers shall be fitted with Low Location Lighting. Resolution A.752(18) & ISO15370 details system requirements and testing procedures:

- The installed material must be Class/Wheelmark approved
- All escape routes, including stairs, must be marked by Low Location Lighting
- Where stairs or corridors are more than 2m wide, Low Location Lighting should be mounted on both sides
- 'Exit' signs should be provided at each exit, located on the same side as the door handle
- Fire and watertight doors should be marked to show how the door opens
- LLL lightning must be placed maximum 30cm above the deck at all points of the escape route
- Systems must have their luminescence tested at least once every 5 years



### Luminance properties

The rules, regulations and standards classify the luminance of signage and low location light systems as per below table, SafeSign products meet or exceed the required luminance.

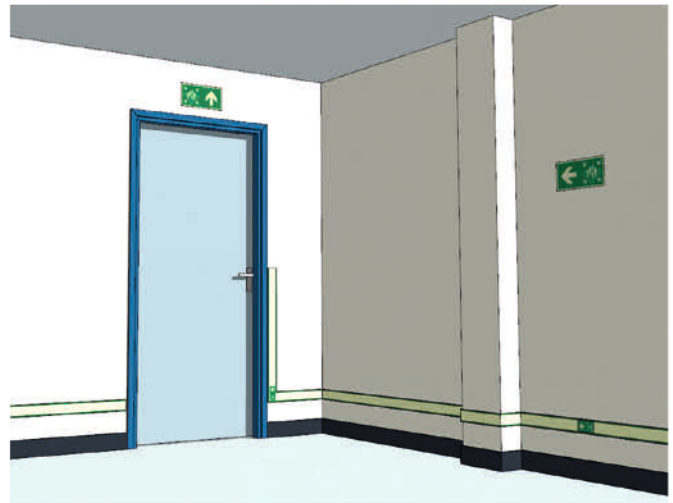
Applicable Standards and Resolutions vs. SafeSigns	Luminescent intensity (mcd/m <sup>2</sup> ) (After removing the existing light)	
	10 minutes	60 minutes
IMO Res. A. 752(18)	15 mcd/m <sup>2</sup>	2 mcd/m <sup>2</sup>
ISO 15370	15 mcd/m <sup>2</sup>	2 mcd/m <sup>2</sup>
DIN 67 510-4	23 mcd/m <sup>2</sup>	3 mcd/m <sup>2</sup>
ISO 17398 Class A	25 mcd/m <sup>2</sup>	3 mcd/m <sup>2</sup>
ISO 17398 Class B	50 mcd/m <sup>2</sup>	7 mcd/m <sup>2</sup>
ISO 17398 Class C	140 mcd/m <sup>2</sup>	20 mcd/m <sup>2</sup>
ISO 17398 Class D	260 mcd/m <sup>2</sup>	35 mcd/m <sup>2</sup>
ISO 17398 Class E	400 mcd/m <sup>2</sup>	55 mcd/m <sup>2</sup>
ISO 17398 Class F	520 mcd/m <sup>2</sup>	70 mcd/m <sup>2</sup>
SafeSign XL	Class B+	Class B+
SafeSign XXL	Class C+	Class C+
SafeSign XXXL	Class E+	Class E+

The mentioned value's according to IMO Res. A 752(18) in above table are applicable when the height of the photo luminescent LLL is 75 mm. For all other heights, the values need to be re-calculated as specified in ISO15370:2010 Annex D. Below table show the minimum requirement for different heights.

Height of LLL system in mm	Luminescent intensity (mcd/m <sup>2</sup> ) (After removing the existing light)	
	10 minutes	60 minutes
75 mm	15,0 mcd/m <sup>2</sup>	2,0 mcd/m <sup>2</sup>
65 mm	23,4 mcd/m <sup>2</sup>	3,1 mcd/m <sup>2</sup>
50 mm	33,8 mcd/m <sup>2</sup>	4,5 mcd/m <sup>2</sup>
40 mm	52,7 mcd/m <sup>2</sup>	7,0 mcd/m <sup>2</sup>
30 mm	93,7 mcd/m <sup>2</sup>	12,5 mcd/m <sup>2</sup>
25 mm	135,0 mcd/m <sup>2</sup>	18,0 mcd/m <sup>2</sup>

### Innovative New Material: PET-X

T-ISS offers as the only manufacturer in the market SafeSign PET-X LLL photoluminescent strips.

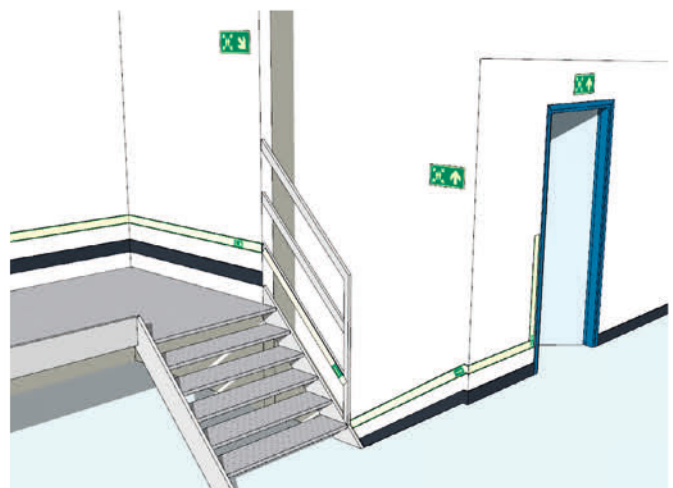


This innovative product offers the following benefits:

- Glossy finish
- PVC Free
- Halogen Free
- Easy to wipe clean
- UV resistant
- Recyclable
- No end caps needed
- 10 year warranty
- >10 years life durability
- No shrinking
- 50% timesaving on installation
- Self-adhesive backing
- Salt Water resistant

Benefits compared to aluminium profile systems:

- No lost or loose end caps
- No gaps due to shrinking
- No more dirt collections on profile
- No mechanical damages
- No more dirt on insert which cannot be removed





## LIGHTLINE PET-X STRIPS



The LightLine LLL System is the easiest and most cost effective Low Location Lighting system to install, requiring only the application of the LLL strips where needed. Cutting on required lengths can be done easily with a knife. The system is finalized by positioning the LLL signs/stickers at the right places. When you choose to install our LightLine system, time savings up to 200% can be achieved.

LightLine Pet-X photoluminescent strips are Non PVC/ Halogen-free plastic strips with backlighting material and a strong self-adhesive foam tape on the back. The material has a 'glossy' finish which is easy to clean and gives it a high quality appearance. The LightLine strips are available with or without 5mm safety green edges at the top and bottom of the strips.



LightLine strips have a standard length of 99 cm, 50 mm height and are produced with the high luminescence class XXL. All strips have a self-adhesive backing for easy fixing during new builds or refurbishment projects. LightLine strips are besides Non PVC/halogen-free, flame retardant and therefore exceeding all current requirements. Upon request we can manufacture LightLine strips in other widths and/or with other coloured marking stripes.

### Approvals

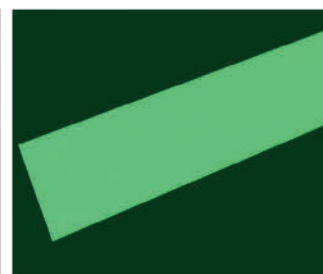
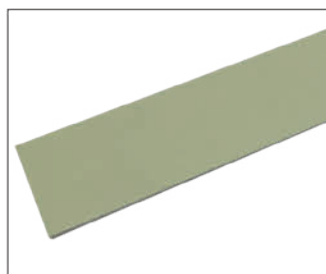
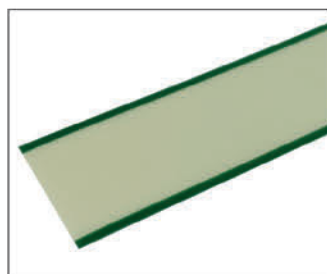
- DNV MED
- Wheelmark
- Korean Register

### Standards

- Complies with IMO Resolution A. 752 (18) and ISO standard 15370



Note; The width of the photoluminescent material in the strips with the green edges is shown in parentheses, the width of the green edges is 2 x 5 mm.



Article number	Description	Dimensions	Quality	Thickness
SX060CG	LightLine Strip Pet-X green edges	1000 mm x 60 mm (50 mm)	XXL	1,5 mm
SX070CG	LightLine Strip Pet-X green edges	1000 mm x 70 mm (60 mm)	XXL	1,5 mm
SX100CG	LightLine Strip Pet-X green edges	1000 mm x 100 mm (90 mm)	XXL	1,5 mm
SX040CN	LightLine Strip Pet-X neutral	1000 mm x 40 mm	XXL	1,5 mm
SX050CN	LightLine Strip Pet-X neutral	1000 mm x 50 mm	XXL	1,5 mm
SX070CN	LightLine Strip Pet-X neutral	1000 mm x 70 mm	XXL	1,5 mm

## ALUMINIUM PROFILES AND INSERTS



Our LightLine LLL Profile System is a system consisting of an extruded aluminium carrier and rigid photoluminescent strips. We have two different types of profiles at our range; an angled or a flat profile containing a 55,4 mm wide visible backlighting strip. The performance of the rigid panels is certified by DNV.

The flat profile is made of anodized aluminium and contains a central channel in which a strip of photoluminescent material is inserted. End caps are available to protect the ends of the profile. The angled profile is slightly angled away from the vertical to allow the photoluminescent strip to catch more light.



### Approvals

- DNV
- Wheelmark

### Standards

- Complies with IMO Resolution A. 752 (18) and ISO standard 15370

Article number	Description	Dimensions	Quality
IPA055CN	LightLine Insert PVC for angled profile	1000 mm x 55,4 mm	XXL
PAA60-100	Insertprofile ALU angled (insert 55,4 mm)	1 m x 60 mm	Alu. anodised
PAA60-300	Insertprofile ALU angled (insert 55,4 mm)	3 m x 60 mm	Alu. anodised
ENDCAP-AL	LLL endcap angled profile left	15 mm x 60 mm	Plastic
ENDCAP-AR	LLL endcap angled profile right	15 mm x 60 mm	Plastic
IPF056CN	LightLine Insert PVC for flat profile	1000 mm x 56 mm	XXL
PAF60-100	Insertprofile ALU flat (insert 56 mm)	1 m x 60 mm	Alu. anodised
PAF60-300	Insertprofile ALU flat (insert 56 mm)	3 m x 60 mm	Alu. anodised
ENDCAP-F	LLL endcap flat profile	4 mm x 53 mm	Alu. anodised



## LIGHTLINE PHOTOLUMINESCENT TAPES

### T-ISS LightLine Tape PET

Other widths available on request

Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTP040CN	LightLine Tape PET neutral	40 mm x 10 m	XXL	-	-
LLTP050CN	LightLine Tape PET neutral	50 mm x 10 m	XXL	-	-
LLTP080CN	LightLine Tape PET neutral	80 mm x 10 m	XXL	-	-

### T-ISS LightLine tape PVC

Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTV040CN	LightLine Tape PVC neutral	40mm x 10mtr	XXL	332014	4752014
LLTV050CN	LightLine Tape PVC neutral	50mm x 10mtr	XXL	-	-
LLTV080CN	LightLine Tape PVC neutral	80mm x 10mtr	XXL	332018	-
LLTV040BN	LightLine Tape PVC neutral	40mm x 10mtr	XL	332014	4752014
LLTV050BN	LightLine Tape PVC neutral	50mm x 10mtr	XL	-	-
LLTV080BN	LightLine Tape PVC neutral	80mm x 10mtr	XL	332018	-



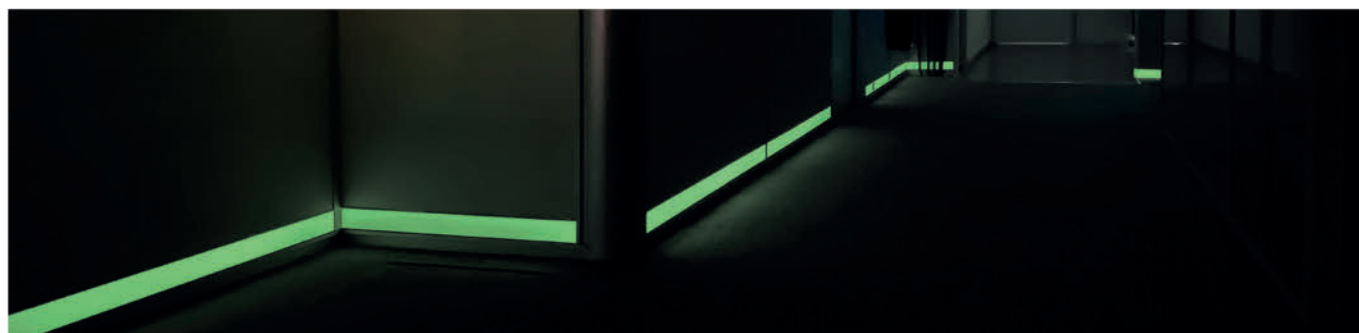
According ISO 15370;  
Only dead-end corridors

Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTV040CA	LightLine Tape PVC arrow	40mm x 10mtr	XXL	-	-
LLTV080CA	LightLine Tape PVC arrow	80mm x 10mtr	XXL	-	-
LLTV040BA	LightLine Tape PVC arrow	40mm x 10mtr	XL	-	-
LLTV080BA	LightLine Tape PVC arrow	80mm x 10mtr	XL	-	-








According ISO15370; Please note; this tape is delivered with 3x ES1032, 3x ES1033, 3x ES1004, 3x ES1005 stickers. Other symbols upon request.

Article number	Description	Dimensions	Quality	IMPA	ISSA
LLTV040CE	LightLine Tape PVC escape direction	40mm x 10mtr	XXL	332024	4752024
LLTV050CE	LightLine Tape PVC escape direction	50mm x 10mtr	XXL	-	-
LLTV080CE	LightLine Tape PVC escape direction	80mm x 10mtr	XXL	332028	-
LLTV040BE	LightLine Tape PVC escape direction	40mm x 10mtr	XL	332024	4752024
LLTV050BE	LightLine Tape PVC escape direction	50mm x 10mtr	XL	-	-
LLTV080BE	LightLine Tape PVC escape direction	80mm x 10mtr	XL	332028	-



## LOW LOCATION LIGHTING MINI SYMBOLS







According ISO 15370 and SOLAS Low Location Lighting system shall be provided with symbols for escape route and fire-fighting equipment, in addition to the signs present at eye level. The mini symbols can be self-adhesive translucent stickers for installation on the photoluminescent LLL strip. According ISO 15370 the symbol have the minimum height of 50 mm. For use at smaller LLL strips or electrical LED LLL, PET-X mini symbols are available.

Symbol	Description	Dimensions	Article number
	Emergency exit (left hand)	50 x 50 mm	ES0001
	Emergency exit (left hand)	50 x 50 mm	ES0002
	Emergency exit (left hand)	50 x 50 mm	ES0004
	Escape direction, arrow (90°)	50 x 50 mm	ES0006
	Escape direction, arrow (45°)	50 x 50 mm	ES0007
	Escape route to the left	100 x 50 mm	ES1004
	Escape route to the right	100 x 50 mm	ES1005
	Escape route downstairs left	100 x 50 mm	ES1006
	Escape downstairs right	100 x 50 mm	ES1007
	Escape upstairs left	100 x 50 mm	ES1008
	Escape upstairs right	100 x 50 mm	ES1009
















## LOW LOCATION LIGHTING MINI SYMBOLS

Symbol	Description	Dimensions	Article number
	Assembly station left	100 x 50 mm	ES1032
	Assembly station right	100 x 50 mm	ES1033
	Assembly station downstairs left	100 x 50 mm	ES1034
	Assembly station downstairs right	100 x 50 mm	ES1035
	Assembly station upstairs left	100 x 50 mm	ES1036
	Assembly station upstairs right	100 x 50 mm	ES1037
	Assembly station forward/up	100 x 50 mm	ES1038
	Lifeboat left	100 x 50 mm	ES1052
	Lifeboat right	100 x 50 mm	ES1053
	Escape route forward left vertical	50 x 100 mm	ES1101
	Escape route forward right vertical	50 x 100 mm	ES1102
	Escape route left vertical	50 x 100 mm	ES1103
	Escape route right vertical	50 x 100 mm	ES1104
	Assembly station forward vertical	50 x 100 mm	ES1105
	Assembly station left vertical	50 x 100 mm	ES1106

## LOW LOCATION LIGHTING MINI SYMBOLS

Symbol	Description	Dimensions	Article number
	Assembly station right vertical	50 x 100 mm	ES1107
	LLL Stairs up to left	50 x 50 mm	ES1120
	LLL Stairs up to right	50 x 50 mm	ES1121
	Escape route forward left vertical	50 x 200 mm	ES2501
	Escape route forward right vertical	50 x 200 mm	ES2502
	Assembly station forward vertical	50 x 200 mm	ES2503
	Fire extinguisher	50 x 50 mm	FS0001
	Fire alarm call point	50 x 50 mm	FS0002
	Fire hose reel	50 x 50 mm	FS0003
	Unconnected fire hose	50 x 50 mm	FS0004
	Fire hydrant	50 x 50 mm	FC0048

**ALL LLL MINI SYMBOLS ARE ALSO AVAILABLE AS PET-X PL FOR USE IN COMBINATION WITH LED LLL OR WHEN FIRE FIGHTING EQUIPMENT IS LOCATED AT THE OPPOSITE SIDE OF A CORRIDOR.**

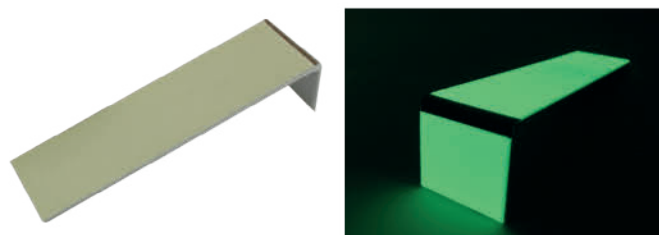
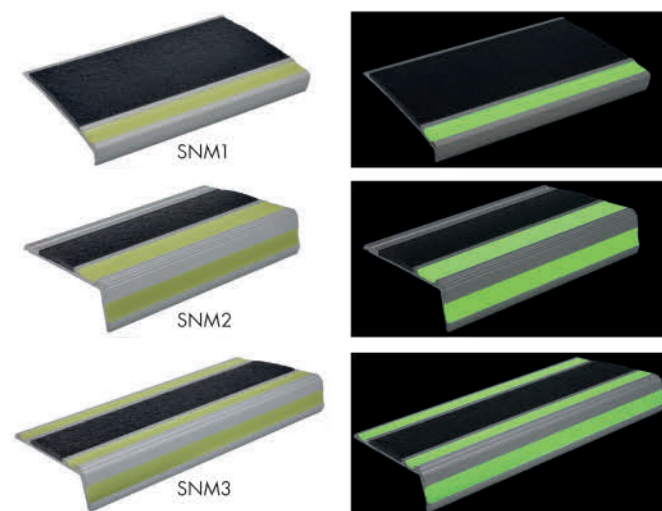


## ADDITIONAL AND OTHER LLL PRODUCTS

### STAIRNOSE MARKERS

Luminous stair step signs for marking stairs in escape routes mainly include stair step strips, side edge markers and round wall or floordots. Like regular stair step strips, our photoluminescent stair step strips also has an anti-slip coating which will reduce falling or tripping. The strips clearly display the steps at night or during a power failure.

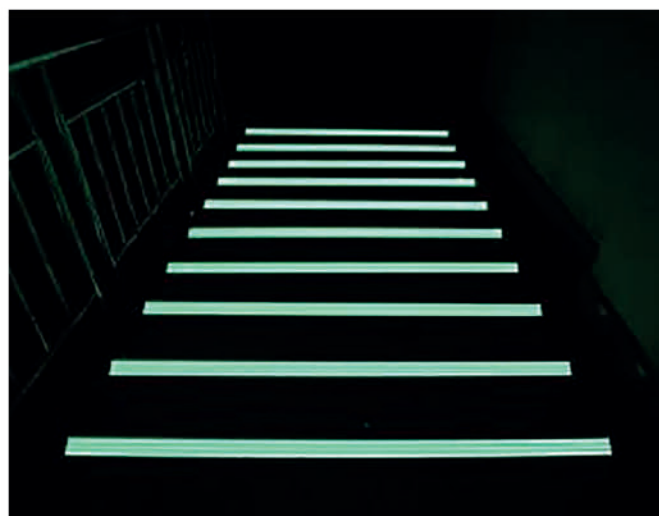
Luminance intensity (mcd/m <sup>2</sup> )	10 min	60 min
Quality XXL	700 mcd/m <sup>2</sup>	100 mcd/m <sup>2</sup>



Including a self adhesive backing and 90 degrees angle.

Article number	Description	Dimension
SEM50A	Stair edge marker	50 x 240 mm

Article number	Description	Dimension
SNM1-100	Stair nose marker	1,0 m x 75 mm
SNM1-120	Stair nose marker	1,2 m x 75 mm
SNM2-100	Stair nose marker	1,0 m x 75 mm
SNM2-120	Stair nose marker	1,2 m x 75 mm
SNM3-100	Stair nose marker	1,0 m x 75 mm
SNM3-120	Stair nose marker	1,2 m x 75 mm



### PHOTOLUMINESCENT ROPE

The T-ISS Photoluminescent rope is made out of photoluminescent pigment and high quality resin. After absorbing visible light, the Photoluminescent rope will glow for 8 up to 12 hours in the darkness.



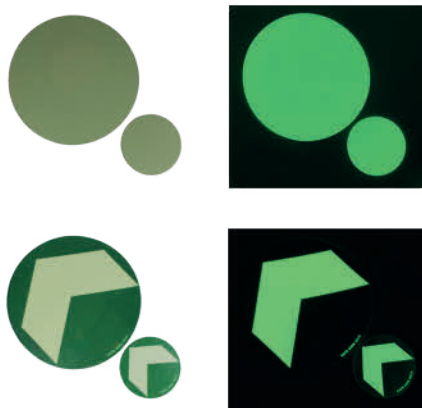
Article number	Description	Dimension
PHROPE100	Photoluminescent rope	16 mm x 100 m
PHROPECL	Photoluminescent rope	Custom length

## ADDITIONAL AND OTHER LLL PRODUCTS

### TRIALDOTS

Photoluminescent aluminium traildots for marking routes with or without arrow. In diameter 90 mm or 200 mm. All traildots have a self-adhesive backing.

Also available: a special mounting bracket designed for anti-skid traildots to fix on metal staircases. Please contact us for more information of these mounting brackets.



Article number	Description	Dimension
DOT090N-A	LLL Traildot antiskid neutral	Ø 90 mm
DOT200N-A	LLL Traildot antiskid neutral	Ø 200 mm
DOT090A-A	LLL Traildot antiskid arrow	Ø 90 mm
DOT200A-A	LLL Traildot antiskid arrow	Ø 200 mm
DOT090N-S	LLL Traildot smooth neutral	Ø 90 mm

### LIGHTLINE PU GUIDELINE

The PU guideline is extremely flexible and can be used for the marking of stairs, stairnoses and contourmarking. It has an anti-slip surface and is resistant against most chemicals. It can be fixed with double-sided foam tape or glue.

#### Technical data

Width: 40 mm, insertstrip 35 mm  
Afterglow: 10 min. 200 mcd/m<sup>2</sup>  
60 min. 28 mcd/m<sup>2</sup>



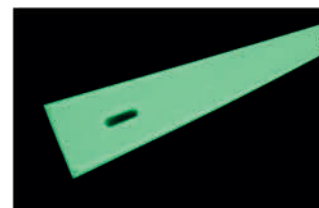
Art. number	Description	Dimension
LLPUG	LightLine PU Guideline	40 mm x 10 m

### LLL SLOT STRIP

Our LLL Slot Strips are specially designed with pre-drilled holes which allows you to install them on the roughest services.

#### Technical data

Width: 1000 mm x 50 mm  
Material: Aluminium  
Quality: XXL



Art. number	Description	Dimension
ALUSLOT4	LLL Slot Strip	1000 mm x 50 mm



## ELECTRICAL LOW LOCATION LIGHTING



Electrical Low Location Lighting systems can be installed both floor-mounted or wall-mounted. Electrical Low Location Lighting systems are considered 'active' systems, compared to 'passive' LLL systems made of photoluminescent material.

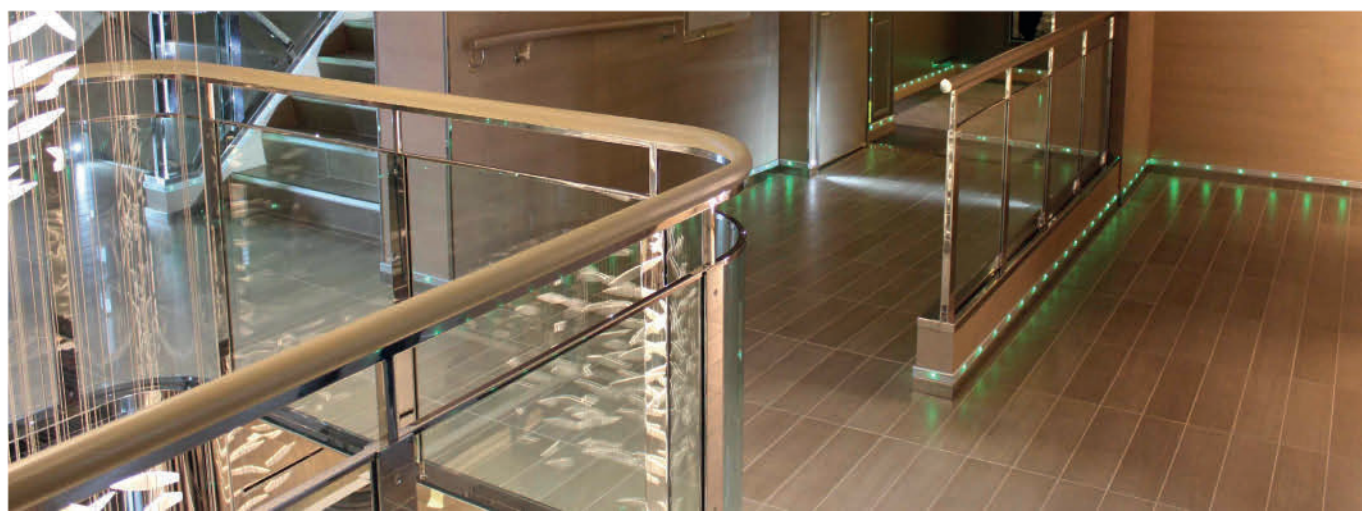
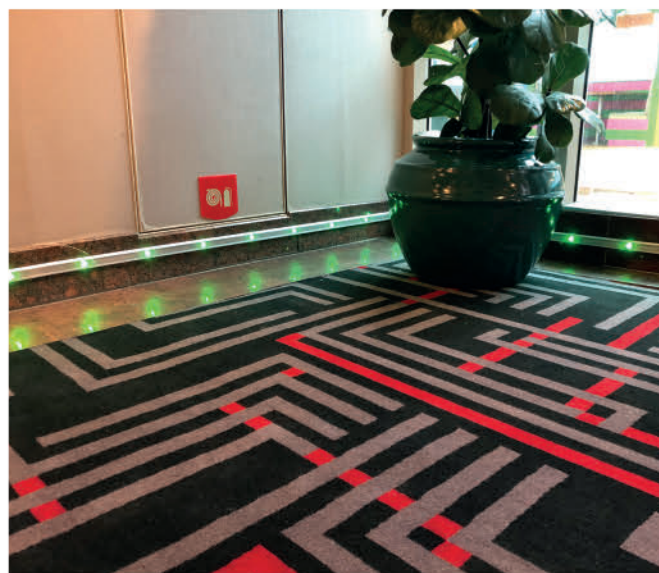
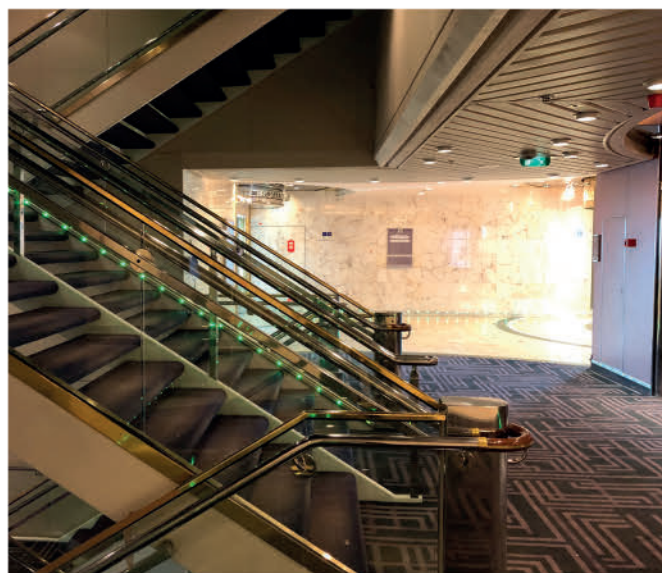
### Certification and approvals

Low Location Lighting systems comply with the environmental conditions and test procedures as defined in the requirements of the current editions of:

- IEC Pub. 598-2-22
- Regulation for the Performance of Type Tests for Electric Appliances Components
- Type Approval of Instrumentation and Automation Equipment, DNV.
- Type Approval System, Lloyds Register (LR)

### Technical data LED-strip

- Standard LED-distance: 200 mm
- "High brightness" LEDs in colour "true green" (540 mcd. minimum)
- IP Grade: IP 67
- Operating temp.: - 15° C to + 55° C
- Life time: > 150.000 hours
- Due to high flexibility, the LED-strip can follow even 90° corners or tight curves without any electrical interruption



## POWER BOX UNIT (PSU)

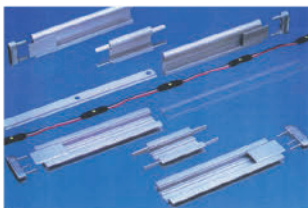
The Power Box Unit (PSU) feeds the system with power (each LED-strip is fed from both side and two different PSUs for safety reasons). System activation can be done from the bridge either by an input signal (from SMS- or emergency shut down-system) on board or manually from the bridge by switching the system simply ON/OFF.

- Nominal Voltage: 115-230 V AC/DC
- Average Power Consumption: 77 VA (under fully load)
- Output Voltage: 22 V DC
- Output Power: 100 W
- Capable to feed up to 1.000 m LED-strip
- IP Grade: IP 55
- Batteries: 3 Sealed Lead Acid (7.26 kg)
- Housing: Metal, in colour RAL 7035 (grey)
- Battery charging also under systemactivation mode!
- Dimension: a) incl. Batt.: 445 x 340 x 127 mm  
b) excl. Batt.: 280 x 340 x 127 mm
- Weight: a) incl. Batt.: ~ 16.85 kg  
b) excl. Batt.: ~ 9.60 kg
- NO extra housing for batteries required (!)
- Cable Glands: 9 x grommets in different sizes
- Terminal configuration plan inside



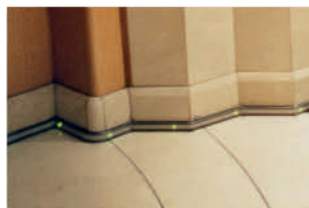
## AVAILABLE PROFILE TYPES

We offer a wide range of profiles to integrate the LED-strip in – from profiles for wall mounting, floor mounting (low and high carpet profiles), via metal skirting boards till system integration into existing wooden wall panels or skirting boards on board



### Aluminium Profile

- Standard Colour: "Anodised Silver"
- Further colours on request either acc. to RAL or in powder coated quality
- Protection Covers



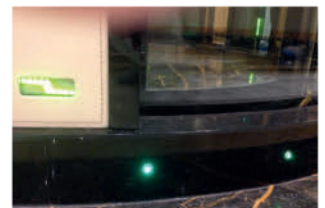
### Polycarbonate Profile

- Available in all RAL colours (standard Colour is "RAL 7026")
- Non toxic, halogen free, fire retardant
- Protection covers/caps in same quality



### Skirting Board Profile

- Original RIVINOX-/BEZAULT-/SCHWEPPERSkirting Board Profiles
- Available in colours "gold" and "silver"
- Other Skirting Profiles available on request



### Into the walls (w/o profile)

- Clipped-in from behind into the wall panels
- Installed into pre-manufactured wooden skirting board profiles (premanufactured cut-outs) but w/o profile



## INSTALLATION, MEASUREMENTS AND CERTIFICATION

T-ISS is accredited by DNV to execute Low Location Lighting measurement services, our certification can be found on our website. As a vessel owner, you need to test all Low Location Lighting systems at least once every five years. T-ISS engineers will test the luminance of your LLL systems on-board with fully certified test equipment. The photoluminescence measurement process as well as equipment are all certified by DNV.

### Examples of our low location lighting measuring services:

- Photo luminescent Low Location Lighting measurements and tests (DNV certified)
- Electric Low Location Lighting measurements and tests (DNV certified)
- Low Location Lighting refurbishment or replacement

### Why are low location lighting measurements necessary?

According to several regulations, vessels that carry passengers are obligated to have a Low Location Lighting system installed. This could be a photo luminescent system as well as an electric system. A photo luminescent system is charged by the lighting on the vessel and will use the energy it collects to light up in the dark. The big advantage of this system is that there are no electric installations that need to be installed.



After the measurements, the engineer that executed the measurement will report all readings in a clear overview. This includes all the upgrades and / or modifications that, when needed, you need to do to meet the required regulations.

### Turn Key Solutions

T-ISS offers service for engineering. Class Society approved the installation of the complete Safety Sign System including Escape Signs, Low Location Lighting Systems and Safety Instructions by our highly skilled and experienced engineers.

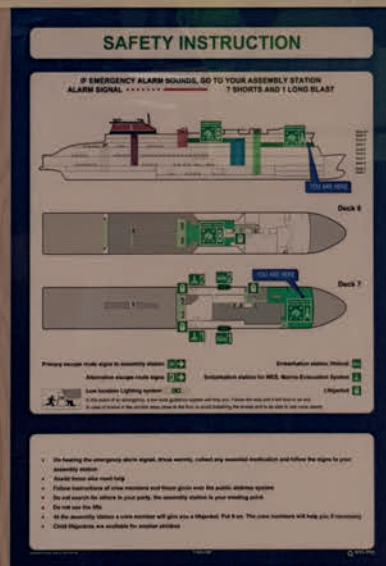








# SAFETY SIGNS AND POSTERS



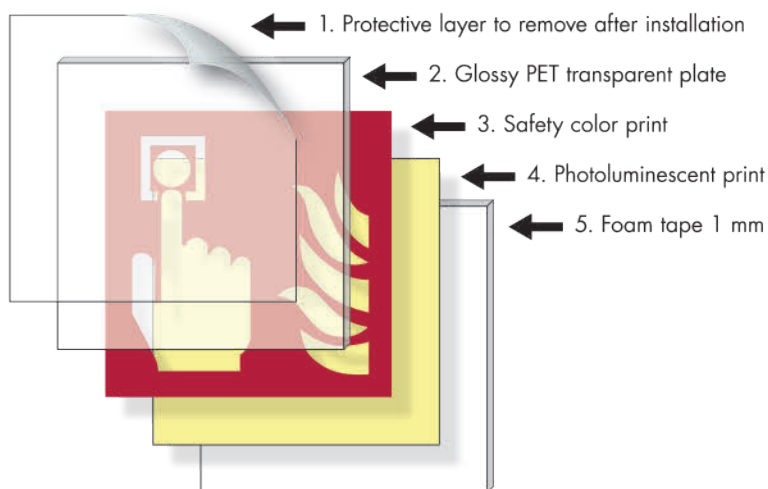
## INTRODUCTION

### Sustainability through innovation

SafeSign photoluminescent signs store the energy from light sources and release the light energy in the dark thanks to the use of 100% environmentally friendly photoluminescent material, free of toxic or radioactive additives and exceeding all required afterglow properties.

SafeSign innovated sign production by replacing the widely used PVC with a modified PET that is fully recyclable. PVC is increasingly banned due to its toxicity and flame resistance, our modified PET can be used safely anywhere. In addition, SafeSign's products are UV resistant, unlike PVC which quickly turns yellow. That's why SafeSign offers a 5-year warranty.

SafeSign prints from the back, another innovation, this way the print is protected from environmental influences and the result is signage with a glossy front. SafeSign signs are always easy to mount thanks to the self-adhesive backing. All signs are supplied with a protective front foil, which must be removed after mounting.



### The most economical signs

The cost of the signs themselves is only a small part of the total cost of your signage. Identification, ordering, transportation, installation and billing usually make up more than 90% of the total expenditure. With an expected lifespan of 10 to 15 years, you will reduce your expenses and apply an environmentally friendly and safe purchasing policy.





### WHY SHOULD PVC NOT BE USED FOR SIGNAGE?

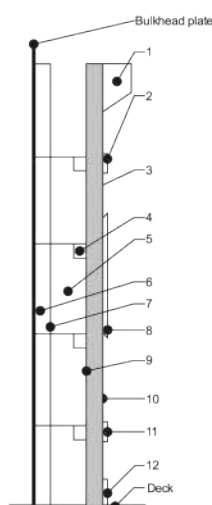
Solas Chapter 11-2 Reg 6 Part B 6.2 Part B - Prevention of Fire and Explosion  
Reg 6 Smoke Generation Potential and Toxicity

The purpose of this regulation is to reduce the hazard to life from smoke and toxic products generated during a fire in spaces where persons normally work or live. For this purpose, the quantity of smoke and toxic products released from combustible materials, including surface finishes, during fire shall be limited.

Paints, varnishes and other finishes used on exposed interior surfaces shall not be capable of producing excessive quantities of smoke and toxic products, this being determined in accordance with the Fire Test Procedures Code.

Solas Chapter 11-2 Reg 5 Part B 3.2.4.1

The following surfaces shall have low flame-spread characteristics in accordance with the Fire Test Procedures Code: In passenger ships, exposed surfaces in corridors and stairway enclosures and of bulkhead and ceiling linings in accommodation and service spaces (except saunas) and control stations, etc.



Materials used for bulkheads of accommodation spaces as defined in regulation 11-2/3.1					
Bulkhead components	Requirements in SOLAS chapter 11-2 for components				
	Non-Combustible Material (5.3.1.1) (5.3.1.2.1)	Calorific Value (5.3.2.2)	Equivalent Volume (5.3.2.3)	Low flame spread (5.3.2.4)*	Smoke Production, toxic products (6.2)
	(A)	(B)	(C)	(D)	(E)
1 moulding			X		
2 signs (rescue/fire protection)				X	X
3 wall panel (lining)	X				
4 grounds and supports	X				
5 draft stops	X				
6 insulation	X				
7 insulation surface**				X (5.3.2.4.1.2)	
8 decoration			X		
9 painted surface** or fabric or veneer**		X		X (5.3.2.4.1.2)	
10 painted surface or fabric or veneer		X	X	X (5.3.2.4.1.1)	X
11 Low Location Light				X	X
12 skirting board			X		

### Sign installation

SafeSign is the only manufacturer who supplies all signs, posters and LLL-strips with a selfadhesive backing. You will never have to use adhesives or other methods for fixing. The selfadhesive backing, from a PE closed-cell foam, is specifically selected to withstand the harsh marine environment. All signs, posters and LLLstrips are delivered with a protecting front film, which must be removed after mounting the product.

### Recommended Sign Size

Size in mm.	50 x 50	100 x 100	150 x 150	200 x 200	300 x 300	400 x 400
Distance	3 m.	8 m.	15 m.	20 m.	30 m.	40 m.

Note; these recommended sign sizes are based on normal lightning conditions of 100 lux.

## STANDARD SIGNS PRODUCT RANGE

Standard signs SafeSign	Symbol height	Class	Photoluminescence	
		ISO17398	10 min	60 min
PET-X, SafeSign XL, self adhesive	Standard dimensions as in catalogue	B+	75 mcd/m <sup>2</sup>	10 mcd/m <sup>2</sup>
PET-X, SafeSign XL mini LLL symbol, self adhesive	50 mm	B+	75 mcd/m <sup>2</sup>	10 mcd/m <sup>2</sup>
Transparant mini LLL symbol, self adhesive	50 mm	NA	NA	NA
PET-X, SafeSign non photoluminescent	As in catalogue	NA	NA	NA

Note; The standard symbol heights in the catalogue are 150 mm, except where the sign-height is mentioned 100 mm. All non-standard symbol heights can be produced on request. Other qualities photoluminescent available up to 10 min - 700 mcd/m<sup>2</sup> / 60 min - 90 mcd/m<sup>2</sup>.

Available on request	Symbol height	Class	Photoluminescence	
		ISO17398	10 min	60 min
Pet-X, SafeSign XL round edges, self adhesive	Standard dimensions as in catalogue	B+	75 mcd/m <sup>2</sup>	10 mcd/m <sup>2</sup>
Pet-X, SafeSign XL, self adhesive	50, 70, 100, 150, 200, 300, 400 mm	B+	75 mcd/m <sup>2</sup>	10 mcd/m <sup>2</sup>
Aluminium SafeSign XXL	Standard dimensions as in catalogue	C+	160 mcd/m <sup>2</sup>	22 mcd/m <sup>2</sup>
Aluminium SafeSign XXX, colourglow (safety colours in the dark)	Standard dimensions as in catalogue	E	300 mcd/m <sup>2</sup>	40 mcd/m <sup>2</sup>
PVC, SafeSign XL, self adhesive	Standard dimensions as in catalogue		50 mcd/m <sup>2</sup>	7 mcd/m <sup>2</sup>
Retro-Reflective 3M, 5 year outdoor warranty, adhesive	50, 70, 100, 150, 200, 300, 400 mm	NA	NA	NA
Retro-Reflective 3M, 5 year outdoor warranty, PET-X 4 mm	50, 70, 100, 150, 200, 300, 400 mm	NA	NA	NA
Retro-Reflective 3M, 5 year outdoor warranty, Stainless steel, pickled and passivated 2 mm	50, 70, 100, 150, 200, 300, 400 mm	NA	NA	NA
Standard outdoor adhesive, 5 year outdoor warranty	50, 70, 100, 150, 200, 300, 400 mm	NA	NA	NA

Note; for installation options such as Mounting Panel Panoramic, see page 158-159.



## ESCAPE ROUTE SIGNS

### Emergency exit (left hand)



**ES0001**  
RS0003  
150x150 mm  
ISSA 4754422  
IMPA 334422

### Emergency exit (right hand)



**ES0002**  
RS0004  
150x150 mm  
ISSA 4754423  
IMPA 334423

### Evacuation assembly point



**ES0003**  
150x150 mm

### Shipboard assembly station



**ES0004**  
RS0017  
150x150 mm  
ISSA 4754069  
IMPA 334069

### Escape ladder



**ES0005**  
RS0005  
150x150 mm

### Escape direction, arrow (90°)



**ES0006**  
RS0041  
150x150 mm  
ISSA 4754420  
IMPA 334420

### Escape direction, arrow (45°)



**ES0007**  
RS0037  
150x150 mm  
ISSA 4754421  
IMPA 334421

### Embarkation ladder



**ES0008**  
RS0024  
150x150 mm  
ISSA 4754054  
IMPA 334054

### Marine evacuation slide



**ES0009**  
RS0025  
150x150 mm  
ISSA 4754055  
IMPA 334055

### Marine evacuation chute



**ES0010**  
RS0026  
150x150 mm  
ISSA 4754070  
IMPA 334070

### Lifeboat



**ES0012**  
RS0007  
150x150 mm  
ISSA 4754050  
IMPA 334050

### Rescue boat



**ES0013**  
RS0008  
150x150 mm  
ISSA 4754051  
IMPA 334051

### Liferaft



**ES0014**  
RS0009  
150x150 mm  
ISSA 4754052  
IMPA 334052

### Davit-launched liferaft



**ES0015**  
RS0010  
150x150 mm  
ISSA 4754053  
IMPA 334053

### Door slides right to open



**ES0017**  
RS0053  
150x150 mm  
ISSA 4754483  
IMPA 334483

### Door slides left to open



**ES0018**  
RS0066  
150x150 mm  
ISSA 4754145  
IMPA 334145

### Turn anticlockwise to open



**ES0019**  
RS0067  
150x150 mm  
ISSA 4754152  
IMPA 334152

### Turn clockwise to open



**ES0020**  
RS0068  
150x150 mm  
ISSA 4754153  
IMPA 334153

### Door opens by pulling left side



**ES0021**  
RS0069  
150x150 mm  
ISSA 4754146  
IMPA 334146

### Door opens by pulling right side



**ES0022**  
RS0070  
150x150 mm  
ISSA 4754145  
IMPA 334145

### Door opens by pushing left



**ES0023**  
RS0071  
150x150 mm  
ISSA 4754152  
IMPA 334152

### Door opens by pushing right



**ES0024**  
RS0072  
150x150 mm  
ISSA 4754153  
IMPA 334153

### Scramble net



**ES0026**  
RS0058  
150x150 mm  
ISSA 4754989  
IMPA 334989

### Descending device



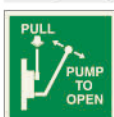
**ES0027**  
150x150 mm

### Free fall lifeboat



**ES0028**  
150x150 mm

### Pump to open



**ES0029**  
150x150 mm

### Helicopter landing area



**ES0030**  
RS0055  
150x150 mm  
ISSA 4752440  
IMPA 332440

### Helicopter pickup area



**ES0031**  
RS0045  
150x150 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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## ESCAPE ROUTE SIGNS

Emergency window with escape ladder



ES0034  
150x150 mm

Rescue window



ES0035  
150x150 mm

Evacuation chair



ES0036  
150x150 mm

Tsunami evacuation building



ES0038  
150x150 mm

Tsunami evacuation area



ES0039  
150x150 mm

Protection shelter



ES0040  
150x150 mm

Em. exit w. impairment left



ES0041  
150x150 mm

Em. exit w. impairment right



ES0042  
150x150 mm

Evacuation temporary refuge



ES0043  
150x150 mm

### PRACTICAL EXAMPLES ESCAPE ROUTE FOR PEOPLE WITH WALKING IMPAIRMENT



Escape route forward/Esc. door



ES1001  
300x150 mm

Escape door left



ES1002  
300x150 mm

Escape route downwards



ES1003  
300x150 mm

Escape route to the left



ES1004  
300x150 mm

Escape route to the right



ES1005  
300x150 mm

Escape route downstairs left



ES1006  
300x150 mm

Escape downstairs right



ES1007  
300x150 mm

Escape upstairs left



ES1008  
300x150 mm

Escape upstairs right



ES1009  
300x150 mm

### ASSEMBLY STATION LAND / ONSHORE

Assembly point forward/up



ES1015 300x150 mm

Assembly point down



ES1016 300x150 mm

Assembly point left



ES1017 300x150 mm

Assembly point right



ES1018 300x150 mm

Assembly point downstairs left



ES1019 300x150 mm

Assembly point downstairs right



ES1020 300x150 mm

Assembly point upstairs left



ES1021 300x150 mm

Assembly point upstairs right



ES1022 300x150 mm



# ESCAPE ROUTE SIGNS

## ASSEMBLY STATION MARITIME / OFFSHORE

Assembly station forward/up



ES1030  
300x150 mm

Assembly station downwards



ES1031  
300x150 mm

Assembly station left



ES1032  
300x150 mm

Assembly station right



ES1033  
300x150 mm

Assembly station downstairs left



ES1034  
300x150 mm

Assembly station downstairs right



ES1035  
300x150 mm

Assembly station upstairs left



ES1036  
300x150 mm

Assembly station upstairs right



ES1037  
300x150 mm

Assembly station forward/up



ES1038  
300x150 mm

Escape ladder forward/upwards



ES1045  
300x150 mm

Escape ladder downwards



ES1046  
300x150 mm

Escape ladder left



ES1047  
300x150 mm

Escape ladder right



ES1048  
300x150 mm

Lifeboat forward/up



ES1050  
300x150 mm

Lifeboat downwards



ES1051  
300x150 mm

Lifeboat left



ES1052  
300x150 mm

Lifeboat right



ES1053  
300x150 mm

Lifeboat downstairs left



ES1054  
300x150 mm

Lifeboat downstairs right



ES1055  
300x150 mm

Lifeboat upstairs left



ES1056  
300x150 mm

Lifeboat upstairs right



ES1057  
300x150 mm

Escape route forward left vertical



ES1101  
150x300 mm  
50x100 mm

Escape route forward right vertical



ES1102  
150x300 mm  
50x100 mm

Escape route left vertical



ES1103  
150x300 mm  
50x100 mm

Escape route right vertical



ES1104  
150x300 mm  
50x100 mm

Assembly station forward vertical



ES1105  
150x300 mm  
50x100 mm

Assembly station left vertical



ES1106  
150x300 mm  
50x100 mm

Assembly station right vertical



ES1107  
150x300 mm  
50x100 mm



LLL Stairs up to left  
ES1120  
50x50 mm



LLL Stairs up to right  
ES1121  
50x50 mm

# ESCAPE ROUTE SIGNS

## LAND / ONSHORE

### Assembly point sign



ES2000  
250x320 mm  
300x400 mm

### Assembly point sign number



1 ES2001  
2 ES2002  
3 ES2003  
4 ES2004  
300x300 mm  
480x480 mm

### Assembly point sign letter



A ES2011  
B ES2012  
C ES2013  
D ES2014  
400x400 mm  
800x800 mm  
1000x1000 mm



## MARITIME / OFFSHORE

### MARITIME ASSEMBLY STATIONS ARE IN PRINCIPLE ALWAYS IDENTIFIED BY LETTER

#### Assembly station location sign



ES2100  
250x320 mm  
360x480 mm

#### Assembly station location sign



A ES2101  
B ES2102  
C ES2103  
D ES2104  
E ES2105  
F ES2106  
300x300 mm  
480x480 mm

### LIFEBOAT OR EMBARKATION STATIONS ALWAYS IDENTIFIED BY NUMBER

#### Lifeboat location sign



ES2120  
250x320 mm  
360x480 mm

#### Lifeboat location 1 sign



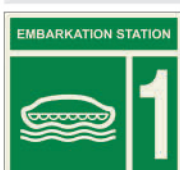
1 ES2121  
2 ES2122  
3 ES2123  
4 ES2124  
5 ES2125  
6 ES2126  
300x300 mm  
480x480 mm

#### Embarkation station lifeboat



ES2130  
250x320 mm  
360x480 mm

#### Embarkation station lifeboat



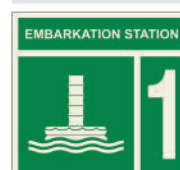
1 ES2131  
2 ES2132  
3 ES2133  
4 ES2134  
300x300 mm  
480x480 mm

#### Embarkation station chute



ES2140  
250x320 mm  
360x480 mm

#### Embarkation station chute

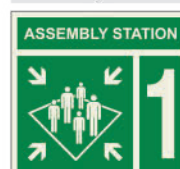


1 ES2141  
2 ES2142  
3 ES2143  
4 ES2144  
300x300 mm  
480x480 mm



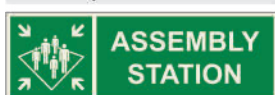
### WHEN THE ASSEMBLY STATION IS LOCATED NEAR A LIFEBOAT, A NUMBER CAN BE USED

#### Assembly station location sign



1 ES2111  
2 ES2112  
300x300 mm  
480x480 mm

#### Assembly station left



ES2200  
300x100 mm

#### Assembly station right



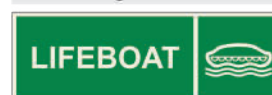
ES2201  
300x100 mm

#### Lifeboat left



ES2220  
300x100 mm

#### Lifeboat right



ES2221  
300x100 mm

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# ESCAPE ROUTE SIGNS

## Number 0



ES3000  
RS0100  
75x150 mm  
ISSA 4754200  
IMPA 334200

## Number 1



ES3001  
RS0101  
75x150 mm  
ISSA 4754201  
IMPA 334201

## Number 2



ES3002  
RS0102  
75x150 mm  
ISSA 4754202  
IMPA 334202

## Number 3



ES3003  
RS0103  
75x150 mm  
ISSA 4754203  
IMPA 334203

## Number 4



ES3004  
RS0104  
75x150 mm  
ISSA 4754204  
IMPA 334204

## Number 5



ES3005  
RS0105  
75x150 mm  
ISSA 4754205  
IMPA 334205

## Number 6



ES3006  
RS0106  
75x150 mm  
ISSA 4754206  
IMPA 334206

## Number 7



ES3007  
RS0107  
75x150 mm  
ISSA 4754207  
IMPA 334207

## Number 8



ES3008  
RS0108  
75x150 mm  
ISSA 4754208  
IMPA 334208

## Number 9



ES3009  
RS0109  
75x150 mm  
ISSA 4754209  
IMPA 334209

## Number 10



ES3010  
100x150 mm

## Number



11 ES3011  
12 ES3012  
13 ES3013  
14 ES3014  
15 ES3015  
100x150 mm

## Letter A



ES3020  
RS0111  
75x150 mm  
ISSA 4754210  
IMPA 334210

## Letter B



ES3021  
RS0112  
75x150 mm  
ISSA 4754211  
IMPA 334211

## Letter C



ES3022  
RS0113  
75x150 mm  
ISSA 4754211  
IMPA 334211

## Letter D



ES3023  
RS0114  
75x150 mm  
ISSA 4754213  
IMPA 334213

## Letter G



ES3026  
RS0117  
75x150 mm  
ISSA 4754216  
IMPA 334216

## Letter H



ES3027  
RS0118  
75x150 mm  
ISSA 4754217  
IMPA 334217

## Letter E



ES3024  
RS0115  
75x150 mm  
ISSA 4754214  
IMPA 334214

## Letter F



ES3025  
RS0116  
75x150 mm  
ISSA 4754215  
IMPA 334215

## Letter J



ES3028  
75x150 mm

## Letter K



ES3029  
75x150 mm



## ESCAPE ROUTE SIGNS

<b>Deck 0</b>  ES3030 150x150 mm	<b>Deck 1</b>  ES3031 150x150 mm	<b>Deck 2</b>  ES3032 150x150 mm	<b>Deck 3</b>  ES3033 150x150 mm
<b>Deck 4</b>  ES3034 150x150 mm	<b>Deck 5</b>  ES3035 150x150 mm	<b>Deck 6</b>  ES3036 150x150 mm	<b>Deck 7</b>  ES3037 150x150 mm
<b>Deck 8</b>  ES3038 150x150 mm	<b>Deck 9</b>  ES3039 150x150 mm	<b>Deck 10</b>  ES3040 150x150 mm	<b>Deck 11</b>  <ul style="list-style-type: none"> <li>11 ES3041</li> <li>12 ES3042</li> <li>13 ES3043</li> <li>14 ES3044</li> <li>15 ES3045</li> <li>16 ES3046</li> </ul> 150x150 mm
<b>Number -2</b>  ES3048 150x150 mm	<b>Number -1</b>  ES3049 150x150 mm	<b>Number 0</b>  ES3050 150x150 mm	<b>Number 1</b>  ES3051 150x150 mm
<b>Number 2</b>  ES3052 150x150 mm	<b>Number 3</b>  ES3053 150x150 mm	<b>Number 4</b>  ES3054 150x150 mm	<b>Number 5</b>  ES3055 150x150 mm
<b>Number 6</b>  ES3056 150x150 mm	<b>Number 7</b>  ES3057 150x150 mm	<b>Number 8</b>  ES3058 150x150 mm	<b>Number 9</b>  <ul style="list-style-type: none"> <li>9 ES3059</li> <li>10 ES3060</li> <li>11 ES3061</li> <li>12 ES3062</li> <li>13 ES3063</li> <li>14 ES3064</li> <li>15 ES3065</li> <li>16 ES3066</li> </ul> 150x150 mm

### MATERIAL SPECIFICATIONS & AVAILABLE SIZES
























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## ESCAPE ROUTE SIGNS

<b>Letter A</b>  <b>ES3070</b> 150x150 mm	<b>Letter B</b>  <b>ES3071</b> 150x150 mm	<b>Letter C</b>  <b>ES3072</b> 150x150 mm	<b>Letter D</b>  <b>ES3073</b> 150x150 mm
<b>Letter E</b>  <b>ES3074</b> 150x150 mm	<b>Letter F</b>  <b>ES3075</b> 150x150 mm	<b>Letter G</b>  <b>ES3076</b> 150x150 mm	<b>Letter H</b> <b>ES3077</b> <b>I</b> <b>ES3078</b> <b>J</b> <b>ES3079</b> <b>K</b> <b>ES3080</b> <b>L</b> <b>ES3081</b> <b>M</b> <b>ES3082</b> 150x150 mm
<b>Doorhandle arrow right</b>  <b>ES5020</b> RS 1050 60x130 mm	<b>Doorhandle arrow left</b>  <b>ES5021</b> RS 1051 60x130 mm	<b>WT doorhandle open right</b>  <b>ES5022</b> 100x200 mm	<b>WT doorhandle open left</b>  <b>ES5023</b> 100x200 mm
<b>Escape hatch open right</b>  <b>ES5024</b> 200x75 mm	<b>Escape hatch open left</b>  <b>ES5025</b> 200x75 mm		
<b>Push door to open</b>  <b>ES5027</b> RS 1052 100x100 mm	<b>Pull door to open</b>  <b>ES5028</b> RS 1053 100x100 mm	<b>Primary escape route ISO 17631</b>  <b>ES5051</b> RS0001 150x150 mm ISSA 4756070 IMPA 336070	<b>Alternative escape route ISO 17631</b>  <b>ES5052</b> RS0002 150x150 mm ISSA 4756071 IMPA 336071
<b>Doorhandle sign right</b>  <b>ES5055</b> 75x200 mm	<b>Doorhandle sign left</b>  <b>ES5056</b> 75x200 mm	<b>Doorhandle ass. st. sign right</b>  <b>ES5057</b> 75x200 mm	<b>Doorhandle ass. st. sign left</b>  <b>ES5058</b> 75x200 mm
<b>Escape door marking plate</b>  <b>ES5075</b> 600x250 mm 750x300 mm 850x340 mm	<b>Watertight door</b>  <b>ES5080</b> RS0043 150x150 mm		

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## ESCAPE ROUTE SIGNS

Lifeboat forward left



ES5101 ISSA 4754300  
RS3001 IMPA 334300  
300x100 mm

Lifeboat forward right



ES5102 ISSA 4754301  
RS3002 IMPA 334301  
300x100 mm

Lifeboat upstairs left



ES5103 ISSA 4754302  
RS3003 IMPA 334302  
300x100 mm

Lifeboat upstairs right



ES5104 ISSA 4754303  
RS3004 IMPA 334303  
300x100 mm

Lifeboat to the left



ES5105 ISSA 4754304  
RS3005 IMPA 334304  
300x100 mm

Lifeboat to the right



ES5106 ISSA 4754305  
RS3006 IMPA 334305  
300x100 mm

Lifeboat downstairs left



ES5107 ISSA 4754306  
RS3007 IMPA 334306  
300x100 mm

Lifeboat downstairs right



ES5108 ISSA 4754307  
RS3008 IMPA 334307  
300x100 mm

Lifeboat down



ES5109 ISSA 4754308  
RS3009 IMPA 334308  
300x100 mm

Lifeboat down



ES5110 ISSA 4754309  
RS3010 IMPA 334309  
300x100 mm

Assembly station forward left



ES5111 ISSA 4754320  
RS3011 IMPA 334320  
300x100 mm

Assembly station forward right



ES5112 ISSA 4754321  
RS3012 IMPA 334321  
300x100 mm

Assembly station upstairs left



ES5113 ISSA 4754322  
RS3013 IMPA 334322  
300x100 mm

Assembly station upstairs right



ES5114 ISSA 4754323  
RS3014 IMPA 334323  
300x100 mm

Assembly station to the left



ES5115 ISSA 4754324  
RS3015 IMPA 334324  
300x100 mm

Assembly station to the right



ES5116 ISSA 4754325  
RS3016 IMPA 334325  
300x100 mm

Assembly station downstairs left



ES5117 ISSA 4754326  
RS3017 IMPA 334326  
300x100 mm

Assembly station downstairs right



ES5118 ISSA 4754327  
RS3018 IMPA 334327  
300x100 mm

Assembly station down



ES5119 ISSA 4754328  
RS3019 IMPA 334328  
300x100 mm

Assembly station down



ES5120 ISSA 4754329  
RS3020 IMPA 334329  
300x100 mm

Refuge point disabled left



ES5125  
RS1026  
300x100 mm

Refuge point disabled right



ES5126  
RS1027  
300x100 mm

Refuge point keep clear



ES5127 ISSA 4754821  
RS1028 IMPA 334821  
450x150 mm





# ESCAPE ROUTE SIGNS

Exit left hand



ES5128  
RS0152  
300x150 mm

Exit right hand



ES5129  
RS0153  
300x150 mm

Exit forward left



ES5130  
RS4501  
450x150 mm

ISSA 4754400  
IMPA 334400

Exit forward right



ES5131  
RS4502  
450x150 mm

ISSA 4754401  
IMPA 334401

Exit upstairs left



ES5132  
RS4503  
450x150 mm

ISSA 4754402  
IMPA 334402

Exit upstairs right



ES5133  
RS4504  
450x150 mm

ISSA 4754403  
IMPA 334403

Exit to the left



ES5134  
RS4505  
450x150 mm

ISSA 4754404  
IMPA 334404

Exit to the right



ES5135  
RS4506  
450x150 mm

ISSA 4754405  
IMPA 334405

Exit downstairs left



ES5136  
RS4507  
450x150 mm

ISSA 4754406  
IMPA 334406

Exit downstairs right



ES5137  
RS4508  
450x150 mm

ISSA 4754407  
IMPA 334407

Exit down



ES5138  
RS4509  
450x150 mm

ISSA 4754408  
IMPA 334408

Exit down



ES5139  
RS4510  
450x150 mm

ISSA 4754409  
IMPA 334409

Exit lefthand



ES5140  
RS4512  
450x150 mm

ISSA 4754410  
IMPA 334410

Exit righthand



ES5141  
RS4511  
450x150 mm

ISSA 4754411  
IMPA 334411

Emergency exit only right



ES5142  
RS4513  
450x150 mm

ISSA 4754413  
IMPA 334413

Emergency exit only left



ES5143  
RS4514  
450x150 mm

ISSA 4754412  
IMPA 334412

Emergency exit forward left



ES5150  
450x150 mm

Emergency exit forward right



ES5151  
450x150 mm

Emergency exit upstairs left



ES5152  
450x150 mm

Emergency exit upstairs right



ES5153  
450x150 mm

Emergency exit to the left



ES5154  
450x150 mm

Emergency exit to the right



ES5155  
450x150 mm

Emergency exit downstairs left



ES5156  
450x150 mm

Emergency exit downstairs right



ES5157  
450x150 mm

Emergency exit down



ES5158  
450x150 mm

Emergency exit down



ES5159  
450x150 mm



## ESCAPE ROUTE SIGNS

Slide right to open



ES5201 ISSA 4754483  
RS4517 IMPA 334483  
450x150 mm

Slide left to open



ES5202 ISSA 4754482  
RS4518 IMPA 334482  
450x150 mm

Escape ladder



ES5211 ISSA 4754188  
RS1016 IMPA 334188  
450x150 mm

Helideck



ES5212 ISSA 4754189  
RS1017 IMPA 334189  
450x150 mm

Text escape route



ES5301 ISSA 4754340  
RS4515 IMPA 334340  
450x150 mm

Text escape door



ES5302 ISSA 4754343  
RS4516 IMPA 334343  
450x150 mm

Text escape window



ES5303 ISSA 4754344  
RS4519 IMPA 334344  
450x150 mm

Text escape hatch



ES5304 ISSA 4754342  
RS4520 IMPA 334342  
450x150 mm

Text deck



ES5305 ISSA 4754470  
RS0155 IMPA 3345470  
400x150 mm

Text stairway



ES5306 ISSA 4754417  
RS0156 IMPA 334471  
400x150 mm

Text wheelhouse



ES5307  
RS1001  
300x100 mm

Suppl. text EXIT



ES5310  
RS0035  
150x150 mm  
ISSA 4754425  
IMPA 334425

Suppl. text EXIT



ES5311  
RS0150  
300x150 mm

Suppl. text EXIT emergency use only



ES5312  
RS0064  
150x150 mm  
ISSA 4754424  
IMPA 334424

Suppl. text EXIT emergency use only



ES5313 ISSA 4754424  
RS0154 IMPA 334424  
300x150 mm

Suppl. text EMERGENCY EXIT



ES5314  
RS0036  
150x150 mm  
ISSA 4754424  
IMPA 334424

Suppl. text EMERGENCY EXIT



ES5315  
RS0151  
300x150 mm

Suppl. text Emergency exit



ES5316  
150x50 mm

### ALL SYMBOLS ARE AVAILABLE WITH ADDITIONAL TEXT

Symbol	TEXT
--------	------



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## RESCUE SIGNS

### First aid



**RS0001**  
RS0031  
150x150 mm  
ISSA 4754150  
IMPA 334150

### Stretcher



**RS0002**  
RS0030  
150x150 mm  
ISSA 4754071  
IMPA 334071

### Safety shower



**RS0003**  
RS0038  
150x150 mm  
ISSA 4754145  
IMPA 334145

### Eyewash station



**RS0004**  
RS0039  
150x150 mm  
ISSA 4754152  
IMPA 334152

### Emergency telephone



**RS0005**  
RS0033  
150x150 mm  
ISSA 4754153  
IMPA 334153

### Doctor



**RS0006**  
RS0073  
150x150 mm  
ISSA 4754152  
IMPA 334152

### Medical grab bag



**RS0007**  
RS0061  
150x150 mm  
ISSA 4754135  
IMPA 334135

### AED (heart defibrillator)



**RS0008**  
RS0051  
150x150 mm  
ISSA 4754137  
IMPA 334137

### EEBD (em. breathing device)



**RS0009**  
RS0032  
150x150 mm  
ISSA 4754078  
IMPA 334078

### Oxygen resuscitator



**RS0010**  
RS0060  
150x150 mm  
ISSA 4754048  
IMPA 334048

### Emergency stop button



**RS0011**  
RS0052  
150x150 mm  
ISSA 4754154  
IMPA 335154

### Drinking water



**RS0012**  
RS0080  
150x150 mm

### Break to obtain access



**RS0013**  
RS0076  
150x150 mm  
ISSA 4754145  
IMPA 334145

### Liferaft knife



**RS0014**  
RS0077  
150x150 mm  
ISSA 4754152  
IMPA 334152

### Emergency hammer



**RS0015**  
150x150 mm

### Child seat detection (CPOD)



**RS0016**  
150x150 mm

### Lifebuoy



**RS0020**  
RS0011  
150x150 mm  
ISSA 4754056  
IMPA 334056

### Lifebuoy with line



**RS0021**  
RS0012  
150x150 mm  
ISSA 4754057  
IMPA 334057

### Lifebuoy with light



**RS0022**  
RS0013  
150x150 mm  
ISSA 4754058  
IMPA 334058

### Lifebuoy with line and light



**RS0023**  
RS0044  
150x150 mm  
ISSA 4754134  
IMPA 334134

### Lifebuoy with line and smoke



**RS0024**  
RS0040  
150x150 mm

### Lifebuoy with light and smoke



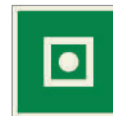
**RS0025**  
RS0014  
150x150 mm  
ISSA 4754059  
IMPA 334059

### Lifebuoy with light, line and smoke



**RS0026**  
RS0079  
150x150 mm  
ISSA 4754109  
IMPA 334109

### Shipboard general alarm



**RS0027**  
RS0075  
150x150 mm  
ISSA 4754155  
IMPA 334155



## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparent Vinyl • White, self-adhesive vinyl (non-reflective)

Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.

## RESCUE SIGNS

### Lifejacket



RS0028  
RS0015  
150x150 mm  
ISSA 4754060  
IMPA 334060

### Child's lifejacket



RS0029  
RS0016  
150x150 mm  
ISSA 4754061  
IMPA 334061

### Infant's lifejacket



RS0030  
RS0046  
150x150 mm  
ISSA 4754080  
IMPA 334080

### Lifejacket storage quantities



RS2004  
450x400 mm

### Search and rescue transponder



RS0031  
RS0018  
150x150 mm  
ISSA 4754065  
IMPA 334065

### Survival craft distress signal



RS0032  
RS0019  
150x150 mm  
ISSA 4754066  
IMPA 334066

### Rocket parachute flare



RS0033  
RS0020  
150x150 mm  
ISSA 4754067  
IMPA 334067

### Line throwing appliance



RS0034  
RS0021  
150x150 mm  
ISSA 47554068  
IMPA 334068

### VHF portable radio



RS0035  
RS0022  
150x150 mm  
ISSA 4754063  
IMPA 334063

### EPIRB (em. position indic. radio beacon)



RS0036  
RS0023  
150x150 mm  
ISSA 4754064  
IMPA 334064

### Survival clothing



RS0037  
RS0027  
150x150 mm  
ISSA 4754062  
IMPA 334062

### Person overboard call point



RS0038  
150x150 mm

### Evacuation mattress



RS0039  
150x150 mm

### Directional indicator



RS0100  
50x150 mm

### USE OF DIRECTIONAL INDICATOR





## RESCUE SIGNS

### Anti exposure suit



RS1001  
RS0028  
150x150 mm  
ISSA 4754076  
IMPA 334076

### Thermal protective aid



RS1002  
RS0029  
150x150 mm  
ISSA 4754075  
IMPA 334075

### First aid kit



RS1003  
RS0042  
150x150 mm  
ISSA 4752413  
IMPA 332413

### Shipboard smoke hood



RS1004  
RS0056  
150x150 mm  
ISSA 4754183  
IMPA 334183

### Emergency torch



RS1005  
RS0059  
150x150 mm

### Safety equipment storage



RS1006  
RS0074  
150x150 mm  
ISSA 4754184  
IMPA 334184

### Safety locker (shipboard)



RS1007  
RS0034  
150x150 mm

### First aid call point



RS1008  
RS0078  
150x150 mm  
ISSA 4754393  
IMPA 334393

### General shipboard alarm



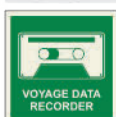
RS1009  
RS0062  
150x150 mm  
ISSA 4754155  
IMPA 334155

### Aldis lamp



RS1010  
RS0063  
150x150 mm

### Voyage data recorder



RS1011  
RS0065  
150x150 mm  
ISSA 4754157  
IMPA 334157

### Rescue ring



RS1012  
RS0054  
150x150 mm

### Rescue basket



RS1013  
RS0057  
150x150 mm

### Jason cradle



RS1014  
150x150 mm

### Smoke signal



RS1015  
150x150 mm

### Working lifejacket



RS1016  
150x150 mm

### Handheld compass



RS1017  
150x150 mm

### Breathing apparatus



RS1018  
RS2003  
150x150 mm

### Survival hook



RS1019  
RS2004  
150x150 mm

### Portable gas detector



RS1050  
RS2001  
150x150 mm

### Safety locker



RS1051  
RS2002  
150x150 mm

### Helicopter crash kit



RS1052  
RS2005  
150x150 mm

### Spill kit



RS1053  
RS2006  
150x150 mm

### Emergency telephone



RS1054  
150x150 mm

### Safety harness



RS1055  
150x150 mm

## RESCUE SIGNS

### Lifejacket quantity



RS2001  
150x200 mm

### Child's lifejacket quantity



RS2002  
150x200 mm

### Infant's lifejacket quantity



RS2003  
150x200 mm

### Lifejacket storage quantities



RS2004  
450x400 mm

### Immersion suit quantity



RS2005  
150x200 mm

### EEBD quantity



RS2006  
150x200 mm

### AED heart defibrillator



RS2010  
150x200 mm

### Protective mask



RS2011  
150x200 mm

### Close proximity suit



RS2012  
150x200 mm

### Break glass to open escape door



RS2013  
150x200 mm

### Emergency stop



RS2014  
150x200 mm

### Emergency unlocking escape door



RS2015  
150x200 mm

### Abandon platform



RS2016  
150x200 mm

### Emergency stop extinguishing system



RS2017  
150x200 mm

### Immersion suit storage



RS3001  
RS0047  
150x150 mm  
ISSA 4754062  
IMPA 334062

### Lifejacket storage



RS3002  
RS0048  
150x150 mm  
ISSA 4754060  
IMPA 334060

### Child's lifejacket storage



RS3003  
RS0049  
150x150 mm  
ISSA 4754061  
IMPA 334061

### Infant's lifejacket storage



RS3004  
RS0050  
150x150 mm  
ISSA 4754142  
IMPA 334142



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# **RESCUE SIGNS**

## First aid



RS5001      ISSA 4754171  
RS1002      IMPA 334171  
300x100 mm

## Emergency eye wash



RS5002      ISSA 4754177  
RS1003      IMPA 334177  
300x100 mm

## Stretcher



RS5003      ISSA 4754172  
RS1004      IMPA 334172  
300x100 mm

## Emergency shower



RS5004      ISSA 4754176  
RS1005      IMPA 334176  
300x100 mm

## Emergency telephone



RS5005      ISSA 4754178  
RS1006      IMPA 334178  
300x100 mm

## Emergency stop



RS5006      ISSA 4754179  
RS1007      IMPA 334179  
300x100 mm

## Protective equipment



RS5007      ISSA 4754174  
RS1008      IMPA 334174  
300x100 mm

## Safe for entry



RS5008      ISSA 4754175  
RS1009      IMPA 334175  
300x100 mm

## Safety equipment



RS5009      ISSA 4754184  
RS1010      IMPA 334184  
300x100 mm

## Smoking area



RS5010      ISSA 4754185  
RS1011      IMPA 334185  
300x100 mm

## Eating and drinking area



RS5011      ISSA 4754186  
RS1012      IMPA 334186  
300x100 mm

## Pollution control equipment



RS5012      ISSA 4754187  
RS1013      IMPA 334187  
300x100 mm

## Drinking water



RS5013      ISSA 4754180  
RS1014      IMPA 334180  
300x100 mm

## Breathing apparatus



RS5014      ISSA 4754182  
RS1015      IMPA 334182  
300x100 mm

## Emergency equipment



RS5015      ISSA 4754173  
RS1023      IMPA 334173  
300x100 mm

## Medical grab bag



RS5016      ISSA 4754174  
RS1024      IMPA 334174  
300x100 mm

## Defibrillator



RS5017      ISSA 4754137  
RS1025      IMPA 334137  
300x100 mm

## Lifejacket



RS5018      ISSA 4754138  
150x50 mm

## Lifejackets inside lifeboat



RS5019      ISSA 4754139  
300x100 mm

## Lifejackets under seat



RS5020      ISSA 4754140  
150x50 mm

## EEBD



RS5021      ISSA 4754141  
RS5020      IMPA 334141  
150x50 mm

## Escape set



RS5022      ISSA 4754142  
150x50 mm

## Smoke hood



RS5023      ISSA 4754143  
150x50 mm

## Immersion suit



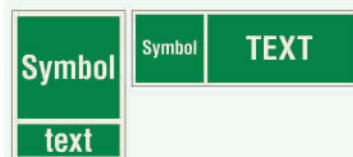
RS5024      ISSA 4754144  
150x50 mm

## Break glass in emergency



RS5025      ISSA 4754187  
RS1018      IMPA 334187  
300x100 mm

## ALL SYMBOLS ARE AVAILABLE WITH ADDITIONAL TEXT



## FIRE FIGHTING SIGNS

### Fire extinguisher



**FS0001**  
FS1001  
150x150 mm  
ISSA 4756100  
IMPA 336100

### Fire alarm call point



**FS0002**  
FS1002  
150x150 mm  
ISSA 4756101  
IMPA 336101

### Fire hose reel



**FS0003**  
FS1003  
150x150 mm  
ISSA 4756102  
IMPA 336102

### Unconnected fire hose



**FS0004**  
FS1034  
150x150 mm  
ISSA 4756088  
IMPA 336088

### Fire emergency telephone



**FS0005**  
FS1004  
150x150 mm  
ISSA 4756104  
IMPA 336104

### Collection of firefighting equipment



**FS0006**  
FS1005  
150x150 mm  
ISSA 4756103  
IMPA 336103

### Fire blanket



**FS0007**  
FS1032 / FS1025  
150x150 mm

### Fire protection door



**FS0008**  
FS1035  
150x150 mm

### Fixed fire extinguishing battery



**FS0009**  
FS1023  
150x150 mm  
ISSA 4756048  
IMPA 336048

### Wheeled fire extinguisher



**FS0010**  
FS1024  
150x150 mm

### Portable foam applicator unit



**FS0011**  
FS1025  
150x150 mm  
ISSA 4756036  
IMPA 336036

### Water fog applicator



**FS0012**  
FS1026  
150x150 mm  
ISSA 4756024  
IMPA 336024

### Fixed fire extinguisher installation



**FS0013**  
FS1027  
150x150 mm  
ISSA 4756044  
IMPA 336044

### Fixed fire extinguisher bottle



**FS0014**  
FS1028  
150x150 mm

### Remote release station



**FS0015**  
FS1029  
150x150 mm  
ISSA 4756808  
IMPA 336808

### Fire monitor



**FS0016**  
FS1030  
150x150 mm

### Fire alarm flashing light



**FS0017**  
150x150 mm

### Directional indicator fire equipment sign



**FS0030**  
FS1006  
50x150 mm  
ISSA 4756210  
IMPA 336210

### USE DIRECTIONAL INDICATOR



### Fire hydrant



**FC0048**  
150x150 mm  
ISSA 4756815  
IMPA 336815

### Dry hydrant



**FS0201**  
150x150 mm

### Fire hydrant



**FS0202**  
150x150 mm

### Underground fire hydrant



**FS0203**  
150x150 mm

### Removable firemonitor



**FS0204**  
150x150 mm

### Remote control fire extinguish system



**FS0205**  
150x150 mm

### Hose box with nozzle



**FS0206**  
FS1033  
150x150 mm

### Fire fighter



**FS0207**  
150x150 mm

### Alarm horn



**FS0208**  
150x150 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:



























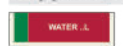
• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparent Vinyl • White, self-adhesive vinyl (non-reflective)

Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.



# FIRE FIGHTING SIGNS

## SUPPLEMENTARY COLOURS ACCORDING ISO 17631

Supplementary sign CO2  <b>FS1001</b> FS0301 50x150 mm	Supplementary sign Foam  <b>FS1002</b> FS0302 50x150 mm	Supplementary sign Halon  <b>FS1003</b> FS0303 50x150 mm	Supplementary sign Nitrogen  <b>FS1004</b> FS0304 50x150 mm
Supplementary sign Powder  <b>FS1005</b> FS0305 50x150 mm	Supplementary sign Water  <b>FS1006</b> FS0306 50x150 mm	Supplementary sign Novec  <b>FS1007</b> 50x150 mm	Supplementary sign Aerosol  <b>FS1008</b> 50x150 mm
Supplementary sign Inergen  <b>FS1009</b> 50x150 mm	Suppl. Sign Drenching/Deluge  <b>FS1010</b> 50x150 mm	Supplementary sign Sprinkler  <b>FS1011</b> 50x150 mm	Supplementary sign Watermist  <b>FS1012</b> 50x150 mm
Supplementary sign CO2  <b>FS1051</b> 150x50 mm	Supplementary sign Foam  <b>FS1052</b> 150x50 mm	Supplementary sign Nitrogen  <b>FS1054</b> 150x50 mm	Supplementary sign Powder  <b>FS1055</b> 150x50 mm
Supplementary sign Water  <b>FS1056</b> 150x50 mm	Supplementary sign Novec  <b>FS1057</b> 150x50 mm	Supplementary sign Aerosol  <b>FS1058</b> 150x50 mm	Supplementary sign Inergen  <b>FS1059</b> 150x50 mm
Supplementary sign Drenching  <b>FS1060</b> 150x50 mm	Supplementary sign Sprinkler  <b>FS1061</b> 150x50 mm	Supplementary sign Watermist  <b>FS1062</b> 150x50 mm	
Supplementary sign CO2 ..kg  <b>FS1151</b> 150x50 mm	Supplementary sign Foam ..L  <b>FS1152</b> 150x50 mm	Supplementary sign Powder ..kg  <b>FS1155</b> 150x50 mm	Supplementary sign water ..L  <b>FS1156</b> 150x50 mm

ON REQUEST THESE SUPPLEMENTARY SIGNS CAN BE COMBINED WITH A FIREFIGHTING SIGN AS ONE PIECE

## ACCORDING TO ISO 24409-2 AND ISO 17631

Grey – CO2 or N (Nitrogen)  
Yellow – F (Foam)  
Brown – Gas other than CO2 or N, type of gas need to be indicated

White – P (Powder)  
Green – W (Water) or D (Drenching/Deluge)  
Orange – S (Sprinkler or high pressure water, such as watermist)

## FIRE FIGHTING SIGNS

### Fire extinguisher



**FS2001**  
FF1050  
150x200 mm  
ISSA 4756120  
IMPA 336120

### Fire alarm



**FS2002**  
FF1051  
150x200 mm  
ISSA 4756121  
IMPA 336121

### Fire hose reel



**FS2003**  
FF1052  
150x200 mm  
ISSA 4756122  
IMPA 336122

### Fire hose



**FS2004**  
150x200 mm

### Fire phone



**FS2005**  
FF1054  
150x200 mm  
ISSA 4756124  
IMPA 336124

### Fire point



**FS2006**  
FF1053  
150x200 mm  
ISSA 4756123  
IMPA 336123

### Emergency shutdown



**FS2007**  
150x200 mm

### General alarm



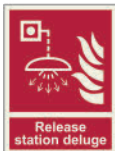
**FS2009**  
150x200 mm

### Text on request



**FS2010**  
150x200 mm

### Release station deluge



**FS2011**  
150x200 mm

### Text on request



**FS2012**  
150x200 mm

### Supplementary text Fire extinguisher



**FS2050**  
FS0307  
150x50 mm

### Supplementary text Custom Sign



**FS2051**  
FS0308  
150x50 mm





## FIRE FIGHTING SIGNS

### Number 0



**FS3000**  
FS1013  
50x150 mm  
ISSA 4756250  
IMPA 336250

### Number 1



**FS3001**  
FS1014  
50x150 mm  
ISSA 4756251  
IMPA 336251

### Number 2



**FS3002**  
FS1015  
50x150 mm  
ISSA 4756252  
IMPA 336252

### Number 3



**FS3003**  
FS1016  
50x150 mm  
ISSA 4756253  
IMPA 336253

### Number 4



**FS3004**  
FS1017  
50x150 mm  
ISSA 4756254  
IMPA 336254

### Number 5



**FS3005**  
FS1018  
50x150 mm  
ISSA 4756255  
IMPA 336255

### Number 6



**FS3006**  
FS1019  
50x150 mm  
ISSA 4756256  
IMPA 336256

### Number 7



**FS3007**  
FS1020  
50x150 mm  
ISSA 4756257  
IMPA 336257

### Number 8



**FS3008**  
FS1021  
50x150 mm  
ISSA 4756258  
IMPA 336258

### Number 9



**FS3009**  
FS1022  
50x150 mm  
ISSA 4756259  
IMPA 336259

### Fire hose reel



**FIRE  
HOSE REEL**

**FS5001** ISSA 4756145  
FS1066 IMPA 336145  
300x100 mm

### Unconnected fire hose



**FIRE HOSE  
WITH NOZZLE**

**FS5002**  
300x100 mm

### In case of fire break glass



**IN CASE OF FIRE  
BREAK GLASS**

**FS5003** ISSA 4756143  
FS1051 IMPA 336143  
300x100 mm

### Fire alarm



**FIRE  
ALARM**

**FS5004** ISSA 4756141  
FS1052 IMPA 336141  
300x100 mm

### Fire alarm call point



**FIRE ALARM  
CALL POINT**

**FS5005** ISSA 4756142  
FS1058 IMPA 336142  
300x100 mm

### Fire blanket



**FIRE  
BLANKET**

**FS5006** ISSA 4756150  
FS1053 IMPA 336150  
300x100 mm

### Fire hydrant



**FIRE  
HYDRANT**

**FS5007**  
FS1054  
300x100 mm

### Sprinkler control valve



**SPRINKLER  
CONTROL VALVE**

**FS5008** ISSA 4756153  
FS1055 IMPA 336153  
300x100 mm

### Fire extinguisher



**FIRE  
EXTINGUISHER**

**FS5009** ISSA 4756140  
FS1056 IMPA 336140  
300x100 mm

### Fire equipment stored inside



**FIRE FIGHTING  
EQUIPMENT  
STORED INSIDE**

**FS5010** ISSA 4756149  
FS1057 IMPA 336149  
300x100 mm

### Fire point



**FIRE POINT**

**FS5011** ISSA 4756147  
FS1059 IMPA 336147  
300x100 mm

### For use on flammable liquid



**FOR USE ON  
FLAMMABLE  
LIQUID FIRES**

**FS5012** ISSA 4756164  
FS1060 IMPA 336164  
300x100 mm

### For use on electrical fires



**FOR USE ON  
ELECTRICAL  
FIRES**

**FS5013** ISSA 4756165  
FS1061 IMPA 336165  
300x100 mm

### For use on any fires



**FOR USE ON  
ANY FIRES**

**FS5014** ISSA 4756163  
FS1062 IMPA 336163  
300x100 mm

### Used only in case of fire



**TO BE USED  
ONLY IN THE  
CASE OF FIRE**

**FS5015** ISSA 4756151  
FS1063 IMPA 336151  
300x100 mm

### Sprinkler stop valve



**SPRINKLER  
STOP VALVE**

**FS5016** ISSA 4756152  
FS1064 IMPA 336152  
300x100 mm

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# FIRE FIGHTING SIGNS

Open valve before running out hose



FS5017 ISSA 4756146  
FS1065 IMPA 336146  
300x100 mm

Foam inlet



FS5019 ISSA 4756155  
FS1067 IMPA 336155  
300x100 mm

Firemans suit



FS5020 ISSA 4756158  
FS1068 IMPA 336158  
300x100 mm

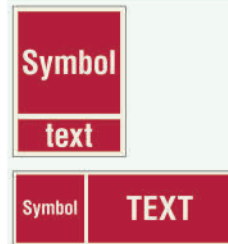
Fire pump start button



FS5021 ISSA 4756159  
FS1069 IMPA 336159  
300x100 mm



ALL SYMBOLS AVAILABLE WITH ADDITIONAL TEXT



Fire blanket



FS6001  
FF1020  
100x200 mm  
ISSA 4756434  
IMPA 336434

Water extinguisher



FS6002  
FF1021  
100x200 mm  
ISSA 4756430  
IMPA 336430

Foam extinguisher



FS6003  
FF1022  
100x200 mm  
ISSA 4756431  
IMPA 336431

Powder extinguisher



FS6004  
FF1023  
100x200 mm  
ISSA 4756432  
IMPA 336432

CO<sub>2</sub> extinguisher

FS6005  
FF1024  
100x200 mm  
ISSA 4756433  
IMPA 336433

Water



FS6050  
FF1001  
80x200 mm

Foam spray



FS6051  
FF1002  
80x200 mm

Dry powder



FS6052  
FF1003  
80x200 mm

BC powder



FS6053  
FF1004  
80x200 mm

Powder M28



FS6054  
FF1005  
80x200 mm

CO<sub>2</sub>

FS6055  
FF1006  
80x200 mm

CO<sub>2</sub>

FS6056  
FF1007  
80x200 mm

Fire hose



FS6057  
FF1008  
80x200 mm

Fire hose reel



FS6058  
FF1009  
80x200 mm

Wet chemical



FS6059  
FF1010  
80x200 mm

Hydro-spray



FS6060  
FF1011  
80x200 mm

Extinguisher backplate



FS6101  
300x870 mm



## IMO A.1116(30) AND ISO 24409-2 FIRE CONTROL SIGNS

All vessels built from 2019 or at renovation, must have their safety signs in compliance with IMO A.1116(30) which refers to the ISO 24409-2. Our IMO signs comply with the ISO 24409-2 standard. This means that some of the fire control signs are replaced by standardized ones in the ISO 24409-2. In the overview below you see some examples of signs that are replaced, and which signs you should use if you want to comply with the new ISO 24409-2 regulations. If you have any questions regarding this new standard, please contact us.



# FIRE CONTROL SIGNS

According IMO A.1116(30) and ISO 24409-2

## Fire control plan



**FC0001**  
FS0029  
150x150 mm  
ISSA 4756001  
IMPA 336001

## Safety Plan



**FC0002**  
RS0006  
150x150 mm  
ISSA 4754132  
IMPA 334132

## Fire and safety plan



**FC0003**  
FS0163  
150x150 mm  
ISSA 4756013  
IMPA 336013

## Remote vent. shut-off accomodation



**FC0005**  
FS0011  
150x150 mm  
ISSA 4756778  
IMPA 336778

## Remote vent. shut-off mach'n spaces



**FC0006**  
FS0012  
150x150 mm  
ISSA 4756779  
IMPA 336779

## Remote vent. shut-off cargo spaces



**FC0007**  
FS0013  
150x150 mm  
ISSA 4756780  
IMPA 336780

## Remote ventilator shutoff



**FC0008**  
FS0138  
150x150 mm  
ISSA 4756078  
IMPA 336078

## Remote control for skylight



**FC0010**  
FS0014  
150x150 mm  
ISSA 4756781  
IMPA 336781

## Remote control for water tight doors



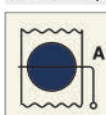
**FC0011**  
FS0015  
150x150 mm  
ISSA 4756782  
IMPA 336782

## Remote control for fire doors



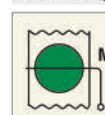
**FC0012**  
FS0016  
150x150 mm  
ISSA 4756783  
IMPA 336783

## Fire damper accomodation



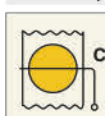
**FC0015**  
FS0017  
150x150 mm  
ISSA 4756784  
IMPA 336784

## Fire damper machinery space



**FC0016**  
FS0018  
150x150 mm  
ISSA 4756785  
IMPA 336785

## Fire damper cargo space



**FC0017**  
FS0019  
150x150 mm  
ISSA 4756786  
IMPA 336786

## Rmt. control fire dampers accom.



**FC0019**  
FS0023  
150x150 mm  
ISSA 4756790  
IMPA 336790

## Rmt. control fire dampers mach'n space



**FC0020**  
FS0024  
150x150 mm  
ISSA 4756791  
IMPA 336791

## Rmt. control cl. dampers cargo space



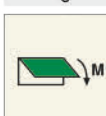
**FC0021**  
FS0025  
150x150 mm  
ISSA 4756792  
IMPA 336792

## Closing device ventilation accomodation



**FC0023**  
FS0020  
150x150 mm  
ISSA 4756787  
IMPA 336787

## Closing device vent. mach'n spaces



**FC0024**  
FS0021  
150x150 mm  
ISSA 4756788  
IMPA 336788

## Closing device ventilation cargo spaces



**FC0025**  
FS0022  
150x150 mm  
ISSA 4756789  
IMPA 336789

## Rmt. control cl. device accom.



**FC0027**  
FS0026  
150x150 mm  
ISSA 4756793  
IMPA 336793

## Rmt. control cl. device mach'n spaces



**FC0028**  
FS0027  
150x150 mm  
ISSA 4756794  
IMPA 336794

## Rmt. control cl. device cargo spaces



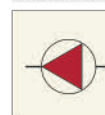
**FC0029**  
FS0028  
150x150 mm  
ISSA 4756795  
IMPA 336795

## Remote control for fire pumps



**FC0032**  
FS0030  
150x150 mm  
ISSA 4756797  
IMPA 336797

## Fire pump



**FC0033**  
FS0031  
150x150 mm  
ISSA 4756060  
IMPA 336060

## Emergency fire pump remote control



**FC0034**  
FS0032  
150x150 mm  
ISSA 4756799  
IMPA 336799

## Emergency fire pump



**FC0035**  
FS0033  
150x150 mm  
ISSA 4756019  
IMPA 336019

## Fuel pumps remote shut-off



**FC0036**  
FS0034  
150x150 mm  
ISSA 4756801  
IMPA 336801

## Lube oil pumps remote shut-off



**FC0037**  
FS0035  
150x150 mm  
ISSA 4756802  
IMPA 336802

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:

• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparant Vinyl • White, self-adhesive vinyl (non-reflective)

Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.



# **FIRE CONTROL SIGNS**

According IMO A.1116(30) and ISO 24409-2

## Remote control bilge pump(s)



**FC0038**  
FS0036  
150x150 mm  
ISSA 4756803  
IMPA 336803

## Remote control emergency bilgepump



**FC0039**  
FS0037  
150x150 mm  
ISSA 4756804  
IMPA 336804

## Remote control fuel oil valves



**FC0042**  
FS0038  
150x150 mm  
ISSA 4756805  
IMPA 336805

## Remote control lube oil valves



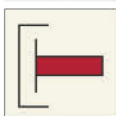
**FC0043**  
FS0039  
150x150 mm  
ISSA 4756806  
IMPA 336806

## Remote control for fire pump valves



**FC0044**  
FS0040  
150x150 mm  
ISSA 4756807  
IMPA 336807

## International shore connection



**FC0047**  
FS0046  
150x150 mm  
ISSA 4756059  
IMPA 336059

## Fire hydrant



**FC0048**  
FS0047  
150x150 mm  
ISSA 4756815  
IMPA 336815

## Fire main section valve



**FC0049**  
FS0048  
150x150 mm  
ISSA 4756818  
IMPA 336818

## Sprinkler section valve



**FC0050**  
FS0049  
150x150 mm  
ISSA 4756819  
IMPA 336819

## Powder section valve



**FC0051**  
FS0050  
150x150 mm  
ISSA 4756817  
IMPA 336817

## Foam section valve



**FC0052**  
FS0051  
150x150 mm  
ISSA 4756816  
IMPA 336816

## Drenching section valve



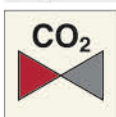
**FC0053**  
FS0129  
150x150 mm  
ISSA 4756029  
IMPA 336029

## Watermist section valve



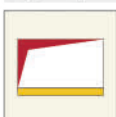
**FC0054**  
150x150 mm

## CO<sub>2</sub> section valve



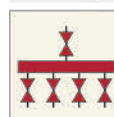
**FC0055**  
150x150 mm

## High expansion foam supply trunk



**FC0056**  
FS0070  
150x150 mm  
ISSA 4756838  
IMPA 336838

## Water spray system valves



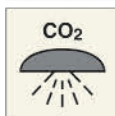
**FC0057**  
FS0071  
150x150 mm  
ISSA 4756027  
IMPA 336027



## FIRE CONTROL SIGNS

According IMO A.1116(30) and ISO 24409-2

### Space protected by CO<sub>2</sub> system



FC0060  
FS0092  
150x150 mm  
ISSA 4756007  
IMPA 336007

### Space protected by nitrogen system



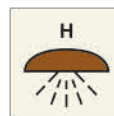
FC0061  
FS0178  
150x150 mm  
ISSA 4756877  
IMPA 336877

### Space protected by foam system



FC0062  
FS0093  
150x150 mm  
ISSA 4756016  
IMPA 336016

### Space protected by halon system



FC0063  
FS0094  
150x150 mm  
ISSA 4756011  
IMPA 336011

### Space protected by inergen system



FC0064  
FS0136  
150x150 mm

### Space protected by aerosol system



FC0065  
FS0171  
150x150 mm

### Space protected by NOVEC system



FC0066  
150x150 mm

### Space protected by powder system



FC0068  
FS0095  
150x150 mm

### Space protected by water system



FC0069  
FS0096  
150x150 mm

### Space protected by watermist system



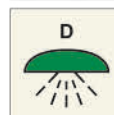
FC0070  
FS0169  
150x150 mm

### Space protected by sprinkler system



FC0071  
FS0097  
150x150 mm  
ISSA 4756045  
IMPA 336045

### Space protected drenching system



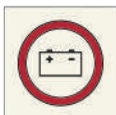
FC0072  
FS0122  
150x150 mm  
ISSA 4756028  
IMPA 336028

### Emergency generator



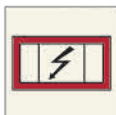
FC0076  
FS0099  
150x150 mm  
ISSA 4756076  
IMPA 336076

### Emergency battery



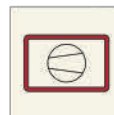
FC0077  
FS0100  
150x150 mm  
ISSA 4756887  
IMPA 336887

### Emergency switchboard



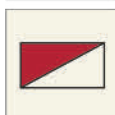
FC0078  
FS0101  
150x150 mm  
ISSA 4756077  
IMPA 336077

### Breathing air compressor



FC0079  
FS0102  
150x150 mm  
ISSA 4756869  
IMPA 336869

### Fire alarm panel



FC0080  
FS0103  
150x150 mm  
ISSA 4756043  
IMPA 336870

### Fire hydrant foam



FC0081  
150x150 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:

• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparant Vinyl • White, self-adhesive vinyl (non-reflective)






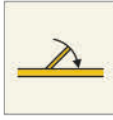
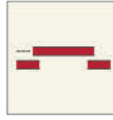




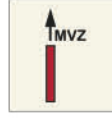
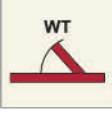
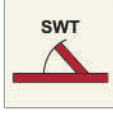
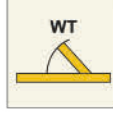
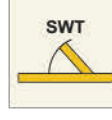

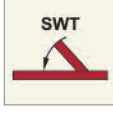
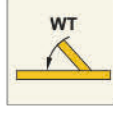
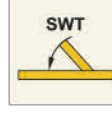


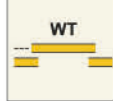
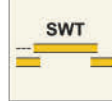
Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.



## FIRE CONTROL SIGNS

ISO 17631

These fire control signs are not mentioned in the IMO A.1116(30) and ISO 24409-2 but can be used onboard vessels build both before 2019 and from 2019.

<b>A-class division</b>  <b>FC2001</b> FS0001 150x150 mm ISSA 4756031 IMPA 336031	<b>B-class division</b>  <b>FC2002</b> FS0002 150x150 mm ISSA 4756037 IMPA 336037	<b>A-class hinged fire door</b>  <b>FC2003</b> FS0003 150x150 mm ISSA 4756032 IMPA 336032	<b>B-class hinged fire door</b>  <b>FC2004</b> FS0004 150x150 mm ISSA 4756038 IMPA 336038
<b>A-class hinged self closing fire door</b>  <b>FC2005</b> FS0005 150x150 mm ISSA 4756033 IMPA 336033	<b>B-class hinged self closing fire door</b>  <b>FC2006</b> FS0006 150x150 mm ISSA 4756039 IMPA 336039	<b>A-class sliding fire door</b>  <b>FC2007</b> FS0007 150x150 mm ISSA 4756034 IMPA 336034	<b>B-class sliding fire door</b>  <b>FC2008</b> FS0008 150x150 mm ISSA 4756040 IMPA 336040
<b>A-class self closing sliding fire door</b>  <b>FC2009</b> FS0009 150x150 mm ISSA 4756035 IMPA 336035	<b>B-class self closing sliding fire door</b>  <b>FC2010</b> FS0010 150x150 mm ISSA 4756041 IMPA 336041	<b>Main vertical zone division</b>  <b>FC2125</b> FS0139 150x150 mm ISSA 4756753 IMPA 336753	<b>Main vertical zone</b>  <b>FC2126</b> FS0167 150x150 mm ISSA 4756759 IMPA 336042
<b>"A" Watertight fire door</b>  <b>FC2127</b> FS0140 150x150 mm ISSA 4756755 IMPA 336755	<b>"A" Semi-watertight fire door</b>  <b>FC2128</b> FS0141 150x150 mm ISSA 4756756 IMPA 336756	<b>"B" Watertight fire door</b>  <b>FC2129</b> FS0142 150x150 mm ISSA 4756758 IMPA 336758	<b>"B" Semi-watertight fire door</b>  <b>FC2130</b> FS0143 150x150 mm ISSA 4756759 IMPA 336759
<b>"A" Self closing watertight fire door</b>  <b>FC2131</b> FS0144 150x150 mm ISSA 4756761 IMPA 336761	<b>"A" Self closing semi-watertight fire door</b>  <b>FC2132</b> FS0145 150x150 mm ISSA 4756762 IMPA 336762	<b>"B" Self closing watertight fire door</b>  <b>FC2133</b> FS0146 150x150 mm ISSA 4756764 IMPA 336764	<b>"B" Self closing semi-watertight fire door</b>  <b>FC2134</b> FS0147 150x150 mm ISSA 4756765 IMPA 336765
<b>"A" Watertight sliding fire door</b>  <b>FC2135</b> FS0148 150x150 mm ISSA 4756767 IMPA 336767	<b>"A" Semi-watertight sliding fire door</b>  <b>FC2136</b> FS0149 150x150 mm ISSA 4756768 IMPA 336768	<b>"B" Watertight sliding fire door</b>  <b>FC2137</b> FS0150 150x150 mm ISSA 4756770 IMPA 336770	<b>"B" Semi-watertight sliding fire door</b>  <b>FC2138</b> FS0151 150x150 mm ISSA 4756771 IMPA 336771

### MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:

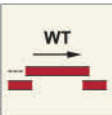











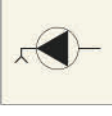


• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparent Vinyl • White, self-adhesive vinyl (non-reflective)

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## FIRE CONTROL SIGNS

ISO 17631

These fire control signs are not mentioned in the IMO A.1116(30) and ISO 24409-2 but can be used onboard vessels build both before 2019 and from 2019.

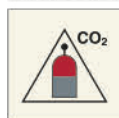
<b>"A" Self closing sl watertight firedoor</b>  <b>FC2139</b> FS0152 150x150 mm ISSA 4756773 IMPA 336773	<b>"A" Self cl. sl. semi-watertight firedoor</b>  <b>FC2140</b> FS0153 150x150 mm ISSA 4756774 IMPA 336774	<b>"B" Self closing sl watertight firedoor</b>  <b>FC2141</b> FS0154 150x150 mm ISSA 4756776 IMPA 336776	<b>"B" Self cl. sl. semi-watertight firedoor</b>  <b>FC2142</b> FS0155 150x150 mm ISSA 4756777 IMPA 336777
<b>Fire axe</b>  <b>FC2072</b> FS0106 150x150 mm ISSA 4756026 IMPA 336026	<b>Smoke detector</b>  <b>FC2073</b> FS0107 150x150 mm ISSA 4756056 IMPA 336056	<b>Heat detector</b>  <b>FC2074</b> FS0108 150x150 mm ISSA 4756061 IMPA 336061	<b>Flame detector</b>  <b>FC2075</b> FS0109 150x150 mm ISSA 4756875 IMPA 336875
<b>Gas detector</b>  <b>FC2076</b> FS0110 150x150 mm ISSA 4756062 IMPA 336062	<b>Heat and smoke detector</b>  <b>FC2077</b> 150x150 mm		
<b>Spare charges fire extinguisher</b>  <b>FC2078</b> FS0132 150x150 mm ISSA 4756715 IMPA 336715	<b>Refills fire extinguishers</b>  <b>FC2079</b> FS0111 150x150 mm		
<b>Bilge pump</b>  <b>FC2090</b> FS0119 150x150 mm ISSA 4756021 IMPA 336021	<b>Emergency bilge pump</b>  <b>FC2091</b> FS0120 150x150 mm ISSA 4756022 IMPA 336022		
<b>Locker breathing apparatus</b>  <b>FC2092</b> FS0121 150x150 mm ISSA 4756068 IMPA 336068			



## FIRE CONTROL SIGNS

According IMO A.1116(30) the signs of this page are only for use onboard vessels build before 2019.

### Remote release station CO<sub>2</sub>



**FC2012**  
FS0041  
150x150 mm  
ISSA 4756808  
IMPA 336808

### Remote release station nitrogen



**FC2013**  
FS0042  
150x150 mm  
ISSA 4756809  
IMPA 336809

### Remote release station halon



**FC2014**  
FS0043  
150x150 mm  
ISSA 4756810  
IMPA 336810

### Remote release station powder



**FC2015**  
FS0044  
150x150 mm  
ISSA 4756812  
IMPA 336812

### Remote release station water



**FC2016**  
FS0045  
150x150 mm  
ISSA 4756813  
IMPA 336813

### Remote release station foam



**FC2017**  
FS0133  
150x150 mm  
ISSA 4756811  
IMPA 336811

### Remote release station inergen



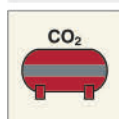
**FC2018**  
FS0134  
150x150 mm  
ISSA 4756808  
IMPA 336808

### Remote release station aerosol



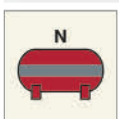
**FC2019**  
FS0170  
150x150 mm

### Fixed fire extn.inst. CO<sub>2</sub>



**FC2021**  
FS0052  
150x150 mm  
ISSA 4756820  
IMPA 336820

### Fixed fire extn.inst. nitrogen



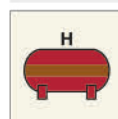
**FC2022**  
FS0053  
150x150 mm  
ISSA 4756821  
IMPA 336821

### Fixed fire extn.inst. foam



**FC2023**  
FS0054  
150x150 mm  
ISSA 4756823  
IMPA 336823

### Fixed fire extn.inst. halon



**FC2024**  
FS0055  
150x150 mm  
ISSA 4756822  
IMPA 336822

### Fixed fire extn.inst. powder



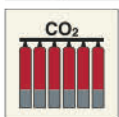
**FC2025**  
FS0056  
150x150 mm  
ISSA 4756824  
IMPA 336824

### fixed fire extn.inst. water



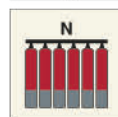
**FC2026**  
FS0057  
150x150 mm  
ISSA 4756825  
IMPA 336825

### Extinguishing battery CO<sub>2</sub>



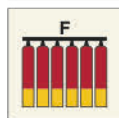
**FC2027**  
FS0058  
150x150 mm  
ISSA 4756826  
IMPA 336826

### Extinguishing battery nitrogen



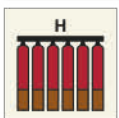
**FC2028**  
FS0059  
150x150 mm  
ISSA 4756827  
IMPA 336827

### Extinguishing battery foam



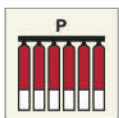
**FC2029**  
FS0060  
150x150 mm  
ISSA 4756829  
IMPA 336829

### Extinguishing battery halon



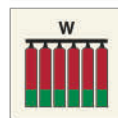
**FC2030**  
FS0061  
150x150 mm  
ISSA 4756828  
IMPA 336828

### Extinguishing battery powder



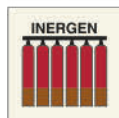
**FC2031**  
FS0062  
150x150 mm  
ISSA 4756830  
IMPA 336830

### Extinguishing battery water



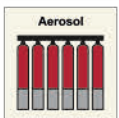
**FC2032**  
FS0063  
150x150 mm  
ISSA 4756831  
IMPA 336831

### Extinguishing battery inergen



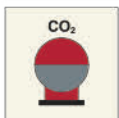
**FC2033**  
FS0135  
150x150 mm  
ISSA 4756826  
IMPA 336826

### Extinguishing battery aerosol



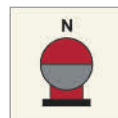
**FC2034**  
FS0172  
150x150 mm  
ISSA 4756834  
IMPA 336834

### Protected extn. bottle CO<sub>2</sub>



**FC2036**  
FS0064  
150x150 mm  
ISSA 4756832  
IMPA 336832

### Protected extn. bottle foam



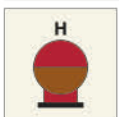
**FC2037**  
FS0065  
150x150 mm  
ISSA 4756833  
IMPA 336833

### Protected extn. bottle nitrogen



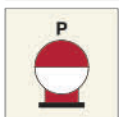
**FC2038**  
FS0066  
150x150 mm  
ISSA 4756835  
IMPA 336835

### Protected extn. bottle halon



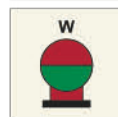
**FC2039**  
FS0067  
150x150 mm  
ISSA 4756834  
IMPA 336834

### Protected extn. bottle powder



**FC2040**  
FS0068  
150x150 mm  
ISSA 4756836  
IMPA 336836

### Protected extn. bottle water



**FC2041**  
FS0069  
150x150 mm  
ISSA 4756837  
IMPA 336837

## FIRE CONTROL SIGNS

According IMO A.1116(30) the signs of this page are only for use onboard vessels build before 2019.

<b>Protected extn. bottle aerosol</b>  <b>FC2042</b> FS0173 150x150 mm	<b>monitor</b>  <b>FC2044</b> FS0073 150x150 mm ISSA 4756841 IMPA 336841	<b>Powder monitor</b>  <b>FC2045</b> FS0074 150x150 mm ISSA 4756842 IMPA 336842	<b>Water monitor</b>  <b>FC2046</b> FS0075 150x150 mm ISSA 4756843 IMPA 336843
<b>hose reel with foam nozzle</b>  <b>FC2047</b> FS0076 150x150 mm ISSA 4756844 IMPA 336844	<b>Hose reel with powder nozzle</b>  <b>FC2048</b> FS0077 150x150 mm ISSA 4756845 IMPA 336845	<b>Hose reel with water nozzle</b>  <b>FC2049</b> FS0078 150x150 mm ISSA 4756846 IMPA 336846	<b>CO<sub>2</sub> fire extinguisher</b>  <b>FC2050</b> FS0079 150x150 mm ISSA 4756847 IMPA 336847
<b>Powder fire extinguisher</b>  <b>FC2051</b> FS0080 150x150 mm ISSA 4756850 IMPA 336850	<b>Foam fire extinguisher</b>  <b>FC2052</b> FS0081 150x150 mm ISSA 4756849 IMPA 336849	<b>Halon fire extinguisher</b>  <b>FC2053</b> FS0082 150x150 mm ISSA 4756848 IMPA 336848	<b>Water fire extinguisher</b>  <b>FC2054</b> FS0084 150x150 mm ISSA 4756851 IMPA 336851
<b>Light water fire extinguisher</b>  <b>FC2055</b> FS0161 150x150 mm ISSA 4756080 IMPA 336080	<b>Water mist fire extinguisher</b>  <b>FC2056</b> FS0168 150x150 mm	<b>Wet chemical fire extinguisher</b>  <b>FC2057</b> FS0115 150x150 mm	<b>CO<sub>2</sub> wheeled fire extinguisher</b>  <b>FC2060</b> FS0085 150x150 mm ISSA 4756852 IMPA 336852
<b>Foam wheeled fire extinguisher</b>  <b>FC2061</b> FS0086 150x150 mm ISSA 4756854 IMPA 336854	<b>Halon wheeled fire extinguisher</b>  <b>FC2062</b> FS0087 150x150 mm ISSA 4756853 IMPA 336853	<b>Powder wheeled fire extinguisher</b>  <b>FC2063</b> FS0088 150x150 mm ISSA 4756855 IMPA 336855	<b>Water wheeled fire extinguisher</b>  <b>FC2064</b> FS0089 150x150 mm ISSA 4756856 IMPA 336856
<b>Portable foam applicator</b>  <b>FC2066</b> FS0090 150x150 mm ISSA 4756857 IMPA 336857	<b>Water fog applicator</b>  <b>FC2067</b> FS0098 150x150 mm ISSA 4756885 IMPA 336885	<b>General alarm button or switch</b>  <b>FC2070</b> FS0104 150x150 mm ISSA 4756022 IMPA 336002	<b>manually operated call point</b>  <b>FC2071</b> FS0105 150x150 mm ISSA 4756101 IMPA 336101

### MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:













• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparant Vinyl • White, self-adhesive vinyl (non-reflective)

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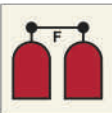


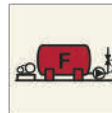

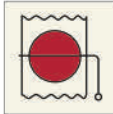


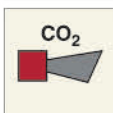
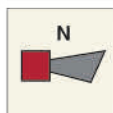
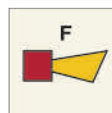
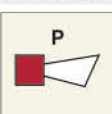



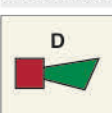

## FIRE CONTROL SIGNS

According IMO A.1116(30) the signs of this page are only for use onboard vessels build before 2019.

<b>Control station</b>  <b>FC2080</b> FS0113 150x150 mm ISSA 4756066 IMPA 336066	<b>Fire station</b>  <b>FC2081</b> FS0114 150x150 mm ISSA 4756030 IMPA 336030	<b>Fire equipment</b>  <b>FC2082</b> FS0116 150x150 mm ISSA 4756067 IMPA 336067	<b>Fire locker</b>  <b>FC2083</b> FS0091 150x150 mm ISSA 4756858 IMPA 336858
<b>Inert gas installation</b>  <b>FC2084</b> FS0072 150x150 mm ISSA 4756073 IMPA 336073	<b>Safety Equipment</b>  <b>FC2085</b> 150x150 mm	<b>Sprinkler</b>  <b>FC2094</b> FS0123 150x150 mm ISSA 4756045 IMPA 336045	<b>Rmt. controlled fuel/lub. oil valves</b>  <b>FC2095</b> FS0124 150x150 mm ISSA 4756065 IMPA 336065
<b>CO<sub>2</sub> release station</b>  <b>FC2097</b> FS0126 150x150 mm ISSA 4756009 IMPA 336009	<b>Halon release station</b>  <b>FC2098</b> FS0127 150x150 mm ISSA 4756049 IMPA 336049	<b>Hose box with spray / jet</b>  <b>FC2099</b> FS0128 150x150 mm ISSA 4756058 IMPA 336058	<b>Locker with add'l protective clothing</b>  <b>FC2100</b> FS0130 150x150 mm ISSA 4756069 IMPA 336069
<b>Rmt. contrll. fire pump or emergency sw</b>  <b>FC2101</b> FS0131 150x150 mm ISSA 4756020 IMPA 336020	<b>Fire main with valves</b>  <b>FC2102</b> FS0137 150x150 mm ISSA 4756057 IMPA 336057	<b>Space protected by automatic fire alarm</b>  <b>FC2103</b> FS0156 150x150 mm ISSA 4756006 IMPA 335606	<b>Emergency telephone station</b>  <b>FC2104</b> FS0157 150x150 mm ISSA 4756025 IMPA 336025
<b>Foam nozzle</b>  <b>FC2105</b> FS0158 150x150 mm ISSA 4756015 IMPA 336015	<b>Sprinkler installation</b>  <b>FC2106</b> FS0162 150x150 mm ISSA 4756044 IMPA 336044	<b>Manual call point</b>  <b>FC2107</b> FS0164 150x150 mm ISSA 4756005 IMPA 336005	<b>Monitored by detector</b>  <b>FC2108</b> FS0165 150x150 mm ISSA 4756055 IMPA 336055
<b>Wet chemical applicator</b>  <b>FC2109</b> FS0166 150x150 mm	<b>Emergency light</b>  <b>FC2111</b> FS0174 150x150 mm	<b>Battery 24V</b>  <b>FC2112</b> FS0175 150x150 mm	<b>Space protected by foam</b>  <b>FC2113</b> FS0176 150x150 mm ISSA 4756016 IMPA 336016
<b>Sprinkler horn</b>  <b>FC2114</b> FS0177 150x150 mm ISSA 4756046 IMPA 336046	<b>Remote control skylights</b>  <b>FC2115</b> FS0179 150x150 mm ISSA 4756064 IMPA 336064	<b>Powder installation</b>  <b>FC2116</b> FS0180 150x150 mm ISSA 4756051 IMPA 336051	<b>Powder release station</b>  <b>FC2117</b> FS0181 150x150 mm ISSA 4756054 IMPA 336054

## FIRE CONTROL SIGNS

According IMO A.1116(30) the signs of this page are only for use onboard vessels build before 2019.

<b>Foam release station</b>  <b>FC2118</b> FS0182 150x150 mm ISSA 4756018 IMPA 336018	<b>Foam valve</b>  <b>FC2119</b> FS0183 150x150 mm ISSA 4756017 IMPA 336017	<b>High exp. foam suppl. Trunk</b>  <b>FC2120</b> FS0184 150x150 mm ISSA 4756074 IMPA 336074	<b>Foam installation</b>  <b>FC2121</b> FS0185 150x150 mm ISSA 4756013 IMPA 336013
<b>Closing appliance ext. vent. in/out</b>  <b>FC2122</b> FS0159 150x150 mm ISSA 4756072 IMPA 336072	<b>Fire damper in vent duct</b>  <b>FC2123</b> FS0160 150x150 mm ISSA 4756063 IMPA 336063		
<b>Fire alarm</b>  <b>FC2148</b> FS0112 150x150 mm ISSA 4756004 IMPA 336004			
<b>Fire alarm horn</b>  <b>FC2149</b> FS0117 150x150 mm ISSA 4756003 IMPA 336003	<b>Alarm horn CO<sub>2</sub> system</b>  <b>FC2150</b> FS0118 150x150 mm ISSA 4756008 IMPA 336008	<b>Alarm horn Nitrogen system</b>  <b>FC2151</b> 150x150 mm	<b>Alarm horn foam system</b>  <b>FC2152</b> 150x150 mm
<b>Alarm horn Powder system</b>  <b>FC2153</b> 150x150 mm	<b>Alarm horn inergen system</b>  <b>FC2154</b> 150x150 mm	<b>Alarm horn novoc system</b>  <b>FC2155</b> 150x150 mm	<b>Alarm horn aerosol system</b>  <b>FC2156</b> 150x150 mm
<b>Alarm horn drenching system</b>  <b>FC2157</b> 150x150 mm	<b>Alarm horn watermist system</b>  <b>FC2158</b> 150x150 mm		

### MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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## WARNING SIGNS

### General warning sign



**WS0001**  
HS0009  
150x150 mm  
ISSA 4757500  
IMPA 337500

### Flammable material



**WS0002**  
HS0001  
150x150 mm  
ISSA 4757509  
IMPA 337509

### Explosive material



**WS0003**  
HS0002  
150x150 mm  
ISSA 4757504  
IMPA 337504

### Toxic material



**WS0004**  
HS0003  
150x150 mm  
ISSA 4757506  
IMPA 337506

### Corrosive substance



**WS0005**  
HS0004  
150x150 mm  
ISSA 4757505  
IMPA 337505

### Oxidising substance



**WS0006**  
150x150 mm

### Substance with environmental hazard



**WS0007**  
150x150 mm

### Long term health hazard



**WS0008**  
150x150 mm  
ISSA 4757507  
IMPA 337507

### Electricity



**WS0009**  
HS0008  
150x150 mm  
ISSA 4757507  
IMPA 337507

### Radioactive material or ionizing radiation



**WS0010**  
HS0005  
150x150 mm  
ISSA 4757511  
IMPA 337511

### Biological hazard



**WS0011**  
HS0052  
150x150 mm  
ISSA 4757501  
IMPA 337501

### Low temperature / freezing conditions



**WS0012**  
HS0013

### Hot surface



**WS0013**  
HS0017

### Overhead load



**WS0015**  
HS0006  
150x150 mm

### Industrial vehicles



**WS0016**  
HS0007  
150x150 mm  
ISSA 4757503  
IMPA 337503

### Automatic start-up



**WS0017**  
HS0016  
150x150 mm

### Run over by remote operator controlled machine



**WS0018**  
150x150 mm

### Pressurized cylinder



**WS0019**  
HS0015  
150x150 mm

### Battery charging



**WS0020**  
HS0056  
150x150 mm

### Non-ionizing radiation



**WS0021**  
HS0010  
150x150 mm  
ISSA 4757515  
IMPA 337515



## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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## WARNING SIGNS

### Laser beam



WS0022  
HS0050  
150x150 mm

### Optical radiation



WS0023  
150x150 mm

### Magnetic field



WS0024  
HS0051  
150x150 mm

### Asphyxiation atmosphere



WS0025  
HS0057  
150x150 mm

### Sudden loud noise



WS0026  
HS0058  
150x150 mm

### Arc flash



WS0027  
150x150 mm

### Floor level obstacle



WS0029  
HS0011  
150x150 mm  
ISSA 4757508  
IMPA 337508

### Drop (fall)



WS0030  
HS0012  
150x150 mm

### Slippery surface



WS0031  
HS0018  
150x150 mm  
ISSA 4757501  
IMPA 337501

### Overhead obstacle



WS0032  
HS0019  
150x150 mm  
ISSA 4757502  
IMPA 337502

### Crushing



WS0033  
HS0054

### Crushing of hands



WS0034

### Sharp element



WS0035  
HS0055  
150x150 mm

### Counterrotating rollers



WS0036  
150x150 mm

### Hand crushing between press brake tool



WS0037  
150x150 mm

### Hand crushing between press brake and material



WS0038  
150x150 mm

### Rapid movement of workpiece in press brake



WS0039  
150x150 mm

### Barbed wire



WS0043  
150x150 mm

### Guard dog



WS0044  
HS0053  
150x150 mm

### Bull



WS0045  
150x150 mm

### Crocodiles, alligators or caymans



WS0046  
150x150 mm

### Falling objects



WS0047  
150x150 mm

### Falling ice



WS0048  
150x150 mm

### Fragile roof



WS0049  
150x150 mm

### Quicksand or mud / deep mud or silt



WS0050  
150x150 mm

### Deep water



WS0051  
150x150 mm

### Shallow water (diving)



WS0052  
150x150 mm

### Unprotected edge



WS0053  
150x150 mm

### Unstable cliff edge



WS0054  
150x150 mm

### Unstable cliff



WS0055  
150x150 mm

### Strong winds



WS0056  
150x150 mm



## WARNING SIGNS

### Hot liquids



**WS1001**  
150x150 mm

### Dangerous stairs



**WS1002**  
150x150 mm

### Rotating cutter



**WS1003**  
150x150 mm

### Rotating parts / belts and tires



**WS1004**  
150x150 mm

### Rotating gearing wheels



**WS1005**  
150x150 mm

### Camera surveillance



**WS1006**  
150x150 mm

### EX zone



**WS1010**  
150x150 mm

### H2S



**WS1011**  
150x150 mm

### Harmfull / irritant materials



**WS1012**  
HS0014  
150x150 mm

### Confined space



**WS1013**  
150x150 mm

### Hot steam under pressure



**WS1014**  
150x150 mm

### High pressure water jets



**WS1015**  
150x150 mm

### Moving machinery



**WS2001**  
HS0022  
150x200 mm  
ISSA 4757546  
IMPA 337546

### Gas under pressure



**WS2002**  
HS0023  
150x200 mm

### Poison gas



**WS2003**  
HS0024  
150x200 mm

### High noise levels



**WS2004**  
HS0025  
150x200 mm

### Lack of oxygen



**WS2005**  
HS0026  
150x200 mm  
ISSA 4757544  
IMPA 337544

### Explosive atmosphere



**WS2006**  
HS0027  
150x200 mm

### Work in progress on radar



**WS2007**  
HS0028  
150x200 mm

### Danger



**WS2008**  
HS0029  
150x200 mm  
ISSA 4757540  
IMPA 337540

### CO<sub>2</sub> protected area



**WS2009**  
HS0030  
150x200 mm  
ISSA 4757545  
IMPA 337545

### Starts/stops automatically



**WS2010**  
HS0031  
150x200 mm  
ISSA 4757557  
IMPA 337557

### Wet deck



**WS2011**  
HS0032  
150x200 mm  
ISSA 4757573  
IMPA 337573

### High voltage



**WS2012**  
HS0033  
150x200 mm  
ISSA 4757610  
IMPA 337610

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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## WARNING SIGNS

### Electrical Hazard



WS2013  
HS0034  
150x200 mm  
ISSA 4757611  
IMPA 337611

### Explosion risk



WS2014  
HS0035  
150x200 mm  
ISSA 4757581  
IMPA 337581

### Unmanned machinery



WS2015  
HS1000  
150x200 mm  
ISSA 4757542  
IMPA 337542

### Battery charging



WS2016  
HS1001  
150x200 mm  
ISSA 4757543  
IMPA 337543

### Low oxygen level



WS2017  
HS1002  
150x200 mm  
ISSA 4757544  
IMPA 337544

### Under maintenance



WS2018  
HS1003  
150x200 mm  
ISSA 4757547  
IMPA 337547

### Overhead working



WS2019  
HS1004  
150x200 mm  
ISSA 4757548  
IMPA 337548

### Out of order



WS2020  
HS1005  
150x200 mm  
ISSA 4757566  
IMPA 337566

### Slip hazard



WS2021  
HS1006  
150x200 mm  
ISSA 4757572  
IMPA 337572

### Slippery surface



WS2022  
HS1007  
150x200 mm  
ISSA 4757574  
IMPA 337574

### Mind your head



WS2023  
HS1008  
150x200 mm  
ISSA 4757570  
IMPA 337570

### Petroleum vapor



WS2024  
HS1009  
150x200 mm  
ISSA 4757580  
IMPA 337580

### Explosive gasses



WS2025  
HS1010  
150x200 mm  
ISSA 4757582  
IMPA 337582

### Battery acid



WS2026  
HS1011  
150x200 mm  
ISSA 4757591  
IMPA 337591

### Corrosive substance



WS2027  
HS1012  
150x200 mm  
ISSA 4757596  
IMPA 337596

### Caustic



WS2028  
HS1013  
150x200 mm  
ISSA 4757597  
IMPA 337597

### Toxic



WS2029  
HS1014  
150x200 mm  
ISSA 4757600  
IMPA 337600

### Chlorine



WS2030  
HS1015  
150x200 mm  
ISSA 4757601  
IMPA 337601

### Harmful vapors

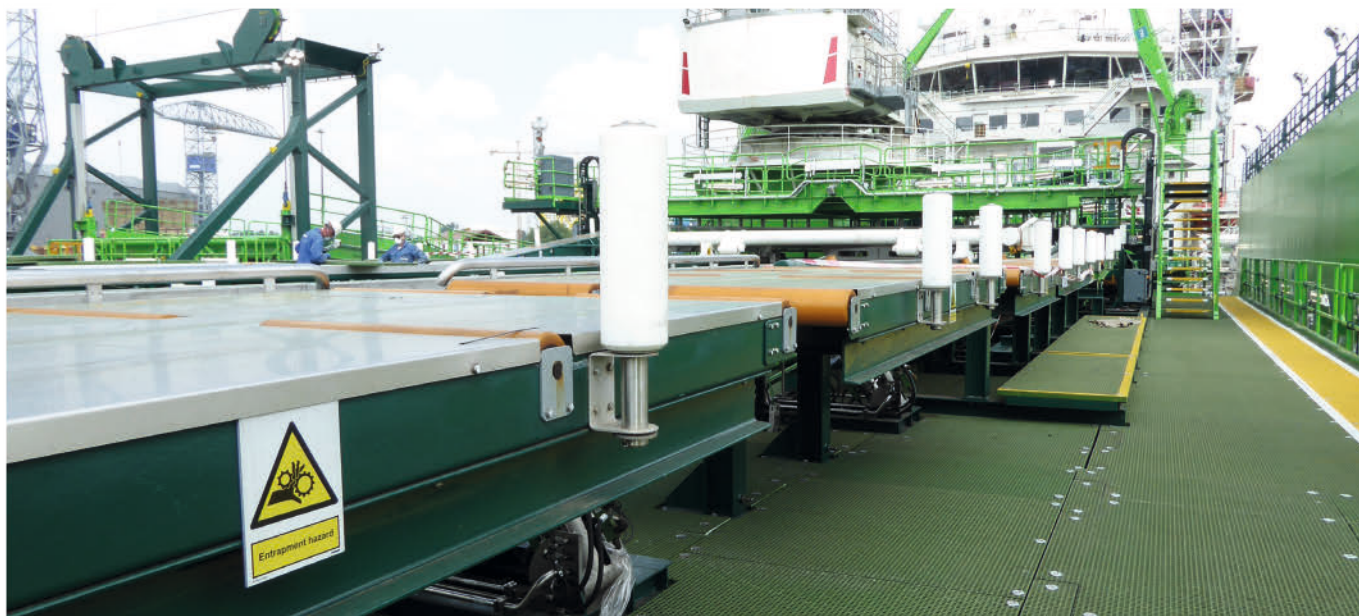


WS2031  
HS1016  
150x200 mm  
ISSA 4757604  
IMPA 337604

### 380 volts





















WS2032  
HS1017  
150x200 mm  
ISSA 4757615  
IMPA 337615





## WARNING SIGNS

<b>440 volts</b>  <b>WS2033</b> HS1018 150x200 mm ISSA 4757614 IMPA 337614	<b>3300 volts</b>  <b>WS2034</b> HS1019 150x200 mm ISSA 4757625 IMPA 337625	<b>Trip hazard</b>  <b>WS2035</b> HS1020 150x200 mm ISSA 4757620 IMPA 337620	<b>Mind the step</b>  <b>WS2036</b> HS1021 150x200 mm ISSA 4757623 IMPA 337623
<b>Uneven surface</b>  <b>WS2037</b> HS1022 150x200 mm ISSA 4757629 IMPA 337629	<b>Flammable liquid</b>  <b>WS2038</b> HS1023 150x200 mm ISSA 4757631 IMPA 337631	<b>Fire risk</b>  <b>WS2039</b> HS1024 150x200 mm ISSA 4757630 IMPA 337630	<b>Low flashpoint</b>  <b>WS2040</b> HS1025 150x200 mm ISSA 4757636 IMPA 337636
<b>Loud noise</b>  <b>WS2041</b> HS1026 150x200 mm ISSA 4757650 IMPA 337650	<b>Radiation risk</b>  <b>WS2042</b> HS1027 150x200 mm ISSA 4757660 IMPA 337660	<b>Ionising radiation</b>  <b>WS2043</b> HS1028 150x200 mm ISSA 4757670 IMPA 337670	<b>Biological hazard</b>  <b>WS2044</b> HS1029 150x200 mm ISSA 4757680 IMPA 337680
<b>Danger of infection</b>  <b>WS2045</b> HS1030 150x200 mm ISSA 4757681 IMPA 337681	<b>Non-ionising radiation</b>  <b>WS2046</b> HS1031 150x200 mm ISSA 4757673 IMPA 337673	<b>Danger of death</b>  <b>WS2047</b> HS1032 150x200 mm ISSA 4757688 IMPA 337688	<b>Compressed oxygen</b>  <b>WS2048</b> HS1034 150x200 mm ISSA 4757585 IMPA 337585
<b>Open slowly</b>  <b>WS2049</b> HS1035 150x200 mm ISSA 4757541 IMPA 337541	<b>Compressed gasses</b>  <b>WS2050</b> HS1036 150x200 mm ISSA 4757584 IMPA 334050	<b>Danger automatic sliding door</b>  <b>WS2051</b> 150x200 mm	
<b>Acetylene</b>  <b>WS5001</b> HS0020 300x100 mm ISSA 4757701 IMPA 337701	<b>Oxygen</b>  <b>WS5002</b> HS0021 300x100 mm ISSA 4757700 IMPA 337700	<b>Solvents</b>  <b>WS5003</b> HS0036 300x100 mm	

### ALL OTHER COMBINATIONS WITH TEXTS ON REQUEST

Give the symbol code, for example WS0001.  
 Than choose your desired language or combination.  
 Multiple languages are also possible.



## PROHIBITION SIGNS

### General prohibition sign



PS0001  
PS1527  
150x150 mm

### No smoking



PS0002  
PS0001  
150x150 mm  
ISSA 4758500  
IMPA 338500

### No open flame or fire



PS0003  
PS0002  
150x150 mm  
ISSA 4758501  
IMPA 338501

### No thoroughfare



PS0004  
PS0003  
150x150 mm  
ISSA 4758503  
IMPA 338503

### Do not extinguish with water



PS0005  
PS0004  
150x150 mm  
ISSA 4758509  
IMPA 338509

### Not drinking water



PS0006  
PS0005  
150x150 mm  
ISSA 4758505  
IMPA 338505

### No access for unauthorized



PS0007  
PS0006  
150x150 mm  
ISSA 4758502  
IMPA 338502

### No access for industrial vehicles



PS0009  
PS0017

### Do not touch



PS0010  
PS0007  
150x150 mm  
ISSA 4758504  
IMPA 338504

### No metallic articles or watches



PS0011  
PS0012  
150x150 mm

### Do not alter the state of the switch



PS0012  
PS0008  
150x150 mm  
ISSA 4758553  
IMPA 338553

### Do not obstruct



PS0013  
PS0009  
150x150 mm

### No activated mobile phone



PS0014  
PS0010  
150x150 mm  
ISSA 4758510  
IMPA 338510

### No eating or drinking



PS0015  
PS0011  
150x150 mm  
ISSA 4758566  
IMPA 338566

### No climbing



PS0016  
PS0013  
150x150 mm

### No access with impl. cardiac devices



PS0017  
PS1518  
150x150 mm

### No access metallic implants



PS0018  
PS1519  
150x150 mm

### No reaching in



PS0019  
PS1520  
150x150 mm

### No heavy load



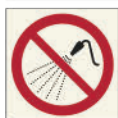
PS0020  
PS0015  
150x150 mm

### No photography



PS0021  
PS0014  
150x150 mm  
ISSA 4758692  
IMPA 338692

### Do not spray with water



PS0022  
150x150 mm

### No pushing



PS0023  
PS1521  
150x150 mm

### No sitting



PS0024  
PS1522  
150x150 mm

### No stepping on surface



PS0025  
PS1523  
150x150 mm

### Do not use lift in case of fire



PS0026  
PS1524  
150x150 mm  
ISSA 4756300  
IMPA 336300

### No dogs



PS0027  
PS1525  
150x150 mm

### Do not walk or stand here



PS0028  
PS1526  
150x150 mm

### Do not use this incomplete scaffold



PS0030  
150x150 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparent Vinyl • White, self-adhesive vinyl (non-reflective)

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# PROHIBITION SIGNS

Do not use device into water



PS0031  
150x150 mm

Do not use this lift for people



PS0032  
150x150 mm

Do not wear gloves



PS0033  
PS1528  
150x150 mm

Do not tie knots in rope



PS0034  
150x150 mm

Do not use for face grinding



PS0035  
150x150 mm

Do not use for wet grinding



PS0036  
150x150 mm

Do not use with hand-held grinding machine



PS0037  
150x150 mm

Do not wear metall-studded footwear



PS0038  
150x150 mm

No children allowed



PS0039  
150x150 mm

Hot works prohibited



PS0040  
150x150 mm

Do not set off fireworks



PS0041  
150x150 mm

No leaning against



PS0042  
150x150 mm

Not for pregnant women



PS0043  
150x150 mm

Not for people in state of intoxication



PS0044  
150x150 mm

Use of smart glasses prohibited



PS0045  
150x150 mm

No running



PS0046  
150x150 mm

No swimming



PS0047  
150x150 mm

No snorkelling



PS0048  
150x150 mm

No diving



PS0049  
150x150 mm

No outdoor footwear



PS0050  
150x150 mm



## PROHIBITION SIGNS

No jumping into water



PS0051  
150x150 mm

No pushing into water



PS0052  
150x150 mm

Do not expose to direct sunlight or hot surface



PS0053  
150x150 mm

Not to be serviced by users



PS0054  
150x150 mm

Do not put finger into the nozzle



PS0055  
150x150 mm

Do not cross barrier



PS0056  
150x150 mm

No jumping down



PS0057  
150x150 mm

Do not ride with people



PS0201  
150x150 mm

Do not flash



PS0202  
150x150 mm

Do not touch, device under voltage



PS0203  
150x150 mm

No smoking articles



PS0204  
150x150 mm

No ties



PS0205  
150x150 mm

No jewelry



PS0206  
150x150 mm

Do not unplug



PS0207  
150x150 mm

No bicycles



PS0208  
150x150 mm

Do not park



PS0209  
150x150 mm

No drugs and alcohol



PS0210  
150x150 mm

No work clothes



PS0211  
150x150 mm

Wearing of helm prohibited



PS0212  
150x150 mm



No weapons



PS0213  
PS0016  
150x150 mm  
ISSA 4752419  
IMPA 332419

Do not open the valve of gas cylinder



PS0214  
150x150 mm

Do not use lift in case of fire



PS2001  
150x200 mm

Do not use lift in case of fire

Do not use this lift for people



PS2002  
150x200 mm

Do not use this lift for people

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## PROHIBITION SIGNS

### No smoking



PS5001  
PS0018  
300x100 mm

### Switch off mobile devices



PS5002  
PS0019  
300x100 mm

### No smoking in bed



PS5003  
PS0020  
300x100 mm

### Do not drink



PS5004  
PS0021  
300x100 mm

### Discharge of oil prohibited



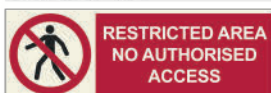
PS5005  
PS0022  
300x100 mm

### Restricted area



PS5006  
PS0023  
300x100 mm

### Restricted area



PS5007  
PS0024  
300x100 mm

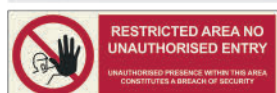
ISSA 4756300  
IMPA 336300

### No entry please wait



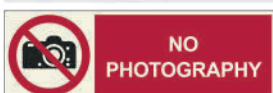
PS5008  
PS0025  
300x100 mm

### Restricted area



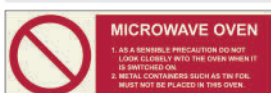
PS5009  
PS0026  
300x100 mm

### No photography



PS5010  
PS0027  
300x100 mm

### Microwave oven



PS5011  
PS0031  
300x100 mm

ISSA 4758618  
IMPA 338618

### Do not use elevator...



PS5012  
PS017  
300x100 mm

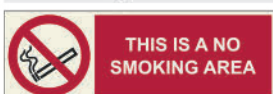
### Smoking forbidden



PS5013  
PS1001  
300x100 mm

IMPA 4758531  
IMPA 338531

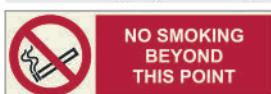
### No smoking area



PS5014  
PS1002  
300x100 mm

ISSA 4758532  
IMPA 338532

### No smoking beyond this point



PS5015  
PS1003  
300x100 mm

ISSA 4758533  
IMPA 338533

### No smoking in elevator



PS5016  
PS1004  
300x100 mm

ISSA 4758575  
IMPA 338575

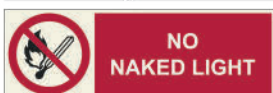
### No matches



PS5017  
PS1005  
300x100 mm

ISSA 4758534  
IMPA 338534

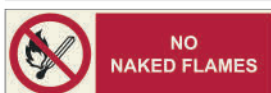
### No naked light



PS5018  
PS1006  
300x100 mm

ISSA 4758536  
IMPA 338536

### No naked flames



PS5019  
PS1007  
300x100 mm

ISSA 4758537  
IMPA 338537

### No hot work



PS5020  
PS1008  
300x100 mm

ISSA 4758539  
IMPA 338539

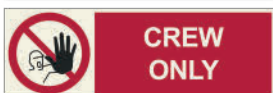
### No entry



PS5021  
PS1009  
300x100 mm

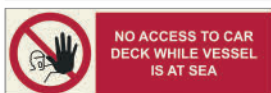
ISSA 4758540  
IMPA 338540

### Crew only



PS5022  
300x100 mm

### No access to car



PS5023  
PS1010  
300x100 mm

ISSA 4758541  
IMPA 338541

### Do not enter



PS5024  
PS1011  
300x100 mm

ISSA 4758542  
IMPA 338542

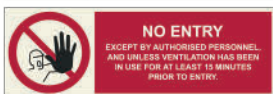
### Do not enter pumproom



PS5025  
PS1012  
300x100 mm

ISSA 4758546  
IMPA 338546

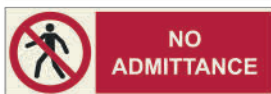
### No entry.....



PS5026  
PS1013  
300x100 mm

ISSA 4758547  
IMPA 338547

### No admittance



PS5027  
PS1014  
300x100 mm

ISSA 4758549  
IMPA 338549

### No access



PS5028  
PS1015  
300x100 mm

ISSA 4758557  
IMPA 338557

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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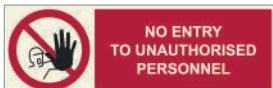
# PROHIBITION SIGNS

## Authorised personnel only



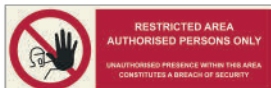
PS5029 ISSA 4758545  
PS1016/ISPS023 IMPA 338545  
300x100 mm

## No entry unauth. pers



PS5030 300x100 mm  
PS1017/ ISSA 4758544  
ISPS024/ISPS025 IMPA 338544

## Restricted area...



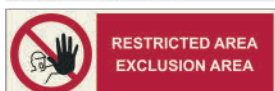
PS5031 ISSA 4758691  
PS1018/ISPS028 IMPA 338691  
300x100 mm

## Restricted area...



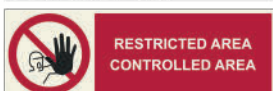
PS5032  
ISPS027  
300x100 mm

## Restricted area...



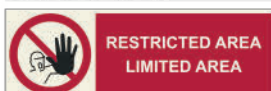
PS5033  
PS1019  
300x100 mm

## Restricted area...



PS5034  
PS1020  
300x100 mm

## Restricted area...



PS5035  
PS1021  
300x100 mm

## Do not touch



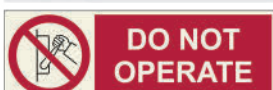
PS5036 ISSA 4758548  
PS1022 IMPA 338548  
300x100 mm

## Do not drink



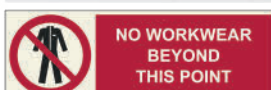
PS5037 ISSA 4758550  
PS1023 IMPA 338550  
300x100 mm

## Do not operate



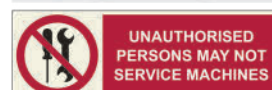
PS5038 ISSA 4758553  
PS1024 IMPA 338553  
300x100 mm

## No workwear beyond this point



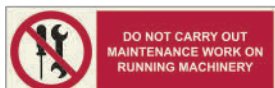
PS5039 ISSA 4758574  
PS1025 IMPA 338574  
300x100 mm

## Unauth. persons may not...



PS5040 ISSA 4758555  
PS1026 IMPA 338555  
300x100 mm

## Do not carry out main...



PS5041 ISSA 4758556  
PS1027 IMPA 338556  
300x100 mm

## Do not extinguish with water



PS5042 ISSA 4758563  
PS1028 IMPA 338563  
300x100 mm

## Do not switch on



PS5043 ISSA 4758552  
PS1029 IMPA 338552  
300x100 mm

## Do not switch off



PS5044 ISSA 4758551  
PS1030 IMPA 338551  
300x100 mm

## Do not touch, men working



PS5045 ISSA 4758564  
PS1031 IMPA 338564  
300x100 mm

## No exit



PS5046 ISSA 4758543  
PS1032 IMPA 338543  
300x100 mm

## Keep out



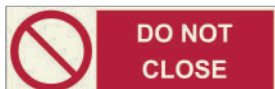
PS5047 ISSA 4758559  
PS1033 IMPA 338559  
300x100 mm

## Do not open



PS5048 ISSA 4758560  
PS1034 IMPA 338560  
300x100 mm

## Do not close



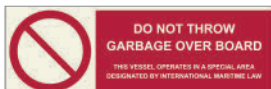
PS5049 ISSA 4758561  
PS1035 IMPA 338561  
300x100 mm

## Do not watch the arc



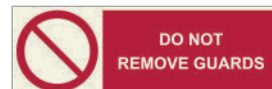
PS5050 ISSA 4758565  
PS1036 IMPA 338565  
300x100 mm

## Do not throw garbage



PS5051 ISSA 4758567  
PS1037 IMPA 338567  
300x100 mm

## Do not remove guards



PS5052 ISSA 4758568  
PS1038 IMPA 338568  
300x100 mm

## Do not use unless...



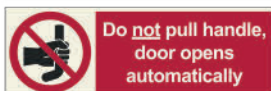
PS5053 ISSA 4758569  
PS1039 IMPA 338569  
300x100 mm

## No smoking, drinking



PS5054 ISSA 4758566  
PS1040 IMPA 338566  
300x100 mm

## Do not pull handle



PS5055  
300x100 mm



## PROHIBITION SIGNS

Drain opening do not cover/obstruct



PS5101  
600x300 mm

Drain opening do not cover/obstruct



PS5102  
FS0200  
600x300 mm

No foreign articles into toilet



PS6001  
SP009  
150x200 mm

No foreign articles into sea



PS6002  
SP010  
150x200 mm

Do not smoke in bed



PS6003  
SP011  
150x200 mm

Do not drink



PS6004  
SP012  
150x200 mm

No smoking



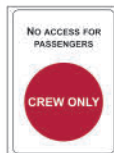
PS6005  
SP013  
150x200 mm

No mobile phones



PS6006  
SP014  
150x200 mm

No access, crew only



PS6007  
SP015  
150x200 mm

Crew only



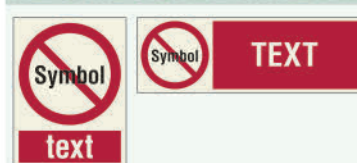
PS6008  
SP016  
150x200 mm

Do not use elevator



PS 6050  
250x250 mm

ALL SYMBOLS ARE AVAILABLE WITH ADDITIONAL TEXT



## MANDATORY SIGNS

### General mandatory



**MS0001**  
MS0210  
150x150 mm  
ISSA 4755641  
IMPA 335641

### Refer to instruction manual



**MS0002**  
MS0211  
150x150 mm

### Wear ear protection



**MS0003**  
MS0203  
150x150 mm  
ISSA 4755648  
IMPA 335648

### Wear eye protection



**MS0004**  
MS0201  
150x150 mm  
ISSA 4755644  
IMPA 335644

### Wear head protection



**MS0005**  
MS0202/MS0217  
150x150 mm  
ISSA 4755642  
IMPA 335642

### Wear safety footwear



**MS0006**  
MS0205  
150x150 mm  
ISSA 4755650  
IMPA 335650

### Wear protective gloves



**MS0007**  
MS0206  
150x150 mm  
ISSA 4755649  
IMPA 335649

### Wear respiratory protection



**MS0008**  
MS0204  
150x150 mm  
ISSA 4755647  
IMPA 335647

### Wear a face shield



**MS0009**  
MS0208  
150x150 mm  
ISSA 4755645  
IMPA 335645

### Wear protective clothing



**MS0010**  
MS0207  
150x150 mm  
ISSA 4755651  
IMPA 335651

### Wear a mask



**MS0011**  
MS0219  
150x150 mm

### Opaque eye protection must be worn



**MS0012**  
MS0214  
150x150 mm

### Wear a safety harness



**MS0013**  
MS0209  
150x150 mm  
ISSA 4755652  
IMPA 335652

### Wear high-visibility clothing



**MS0014**  
MS0218  
150x150 mm

### Wear a welding mask



**MS0015**  
MS0220  
150x150 mm

### Wear anti-static footwear



**MS0016**  
MS0227  
150x150 mm

### Use self-contained breathing appliance



**MS0017**  
MS0228  
150x150 mm

### Connect an earth terminal



**MS0018**  
MS0212  
150x150 mm

### Disconnect mains plug from electrical outlet



**MS0019**  
MS0213  
150x150 mm

### Wash your hands



**MS0020**  
MS0215  
150x150 mm

### Use handrail



**MS0021**  
MS0216  
150x150 mm

### Use barrier cream



**MS0022**  
MS0221  
150x150 mm

### Use footbridge



**MS0023**  
MS0222  
150x150 mm

### Disconnect before maintenance or repair



**MS0024**  
MS0225  
150x150 mm

### Wear safety belts



**MS0025**  
MS0001  
150x150 mm  
ISSA 4755100  
IMPA 335100

### Use litter bin



**MS0026**  
MS0224  
150x150 mm

### Use gas detector



**MS0027**  
MS0226  
150x150 mm

### Use this walkway



**MS0028**  
150x150 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:

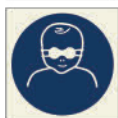
• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparent Vinyl • White, self-adhesive vinyl (non-reflective)

Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.



## MANDATORY SIGNS

Protect infant's eyes with opaque eye protection


**MS0029**  
150x150 mm

Use protective apron


**MS0030**  
150x150 mm

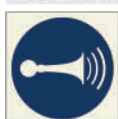
Check guard


**MS0031**  
150x150 mm

Keep locked


**MS0032**  
150x150 mm

Sound horn


**MS0033**  
150x150 mm

Use table saw adjustable guard


**MS0034**  
150x150 mm

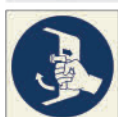
Secure gas cylinders


**MS0035**  
150x150 mm

Wear protective roller sport equipment


**MS0036**  
150x150 mm

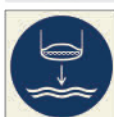
Close and secure hatches in launch sequence


**MS0037**  
MS0002  
150x150 mm  
ISSA 4755101  
IMPA 335101

Start engine in launch sequence


**MS0038**  
MS0003  
150x150 mm  
ISSA 4755102  
IMPA 335102

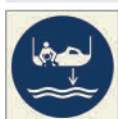
Lower lifeboat to water in launch sequence


**MS0039**  
MS0004  
150x150 mm  
ISSA 4755103  
IMPA 335103

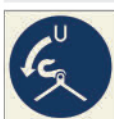
Lower liferaft to water in launch sequence


**MS0040**  
MS0005  
150x150 mm  
ISSA 4755104  
IMPA 335104

Lower rescue boat to water in launch sequence


**MS0041**  
MS0006  
150x150 mm  
ISSA 4755105  
IMPA 335105

Release falls in launch sequence


**MS0042**  
MS0007  
150x150 mm  
ISSA 4755106  
IMPA 335106

Start water spray in launch sequence


**MS0043**  
MS0008  
150x150 mm  
ISSA 4755107  
IMPA 33510

Release lifeboat grips in launch sequence


**MS0044**  
MS0009  
150x150 mm  
ISSA 4755109  
IMPA 335109

Start air supply in launch sequence


**MS0045**  
MS0010  
150x150 mm  
ISSA 4755108  
IMPA 335108

Wear personal flotation device


**MS0046**  
MS0223

Keep under supervision in the aquatic environment


**MS0047**  
150x150 mm

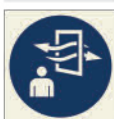
Wear laboratory coat


**MS0048**  
150x150 mm

Ensure continuous ventilation


**MS0049**  
150x150 mm

Ventilate before and during entering


**MS0050**  
150x150 mm


## MANDATORY SIGNS

### Wear full size safety goggles



MS0201  
150x150 mm

### Wear safety cap



MS0202  
150x150 mm

### Wear protective cap



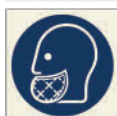
MS0203  
150x150 mm

### Wear protective hairnet



MS0204  
150x150 mm

### Wear protective beardnet



MS0205  
150x150 mm

### Wear shoe covers



MS0206  
150x150 mm

### Wear safety helmet and faceshield



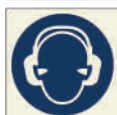
MS0209  
150x150 mm

### Use handrail right



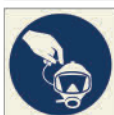
MS0210  
150x150 mm

### Wear double ear protection



MS0212  
150x150 mm

### Keep escape breathing device with you



MS0213  
150x150 mm

### Keep tools lined up



MS0214  
150x150 mm

### Keep flashlight with you



MS0215  
150x150 mm

### Wear lifejacket



MS2001  
MS0103  
150x200 mm

### Wear goggles



MS2002  
MS0106  
150x200 mm  
ISSA 4755715  
IMPA 335715

### Wear mask



MS2003  
MS0107  
150x200 mm  
ISSA 4755719  
IMPA 335719

### Wear ear protection



MS2004  
MS0108  
150x200 mm  
ISSA 4755722  
IMPA 335722

### Wear gloves



MS2005  
MS0109  
150x200 mm  
ISSA 4755724  
IMPA 335724

### Wear protective clothing



MS2006  
MS0110  
150x200 mm  
ISSA 4755726  
IMPA 335726

### Wear helmet



MS2007  
MS0111  
150x200 mm  
ISSA 4755709  
IMPA 335709

### Hand wash only



MS2008  
MS1001  
150x200 mm  
ISSA 4755737  
IMPA 335737

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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## MANDATORY SIGNS

### Head protection



**MS2009**  
MS1011  
150x200 mm  
ISSA 4755710  
IMPA 335710

### Safety helmet area



**MS2010**  
MS1012  
150x200 mm  
ISSA 4755733  
IMPA 335733

### High visibility clothing must be worn



**MS2011**  
MS1013  
150x200 mm  
ISSA 4755782  
IMPA 335782

### Hair covering



**MS2012**  
MS1010  
150x200 mm  
ISSA 4755736  
IMPA 335736

### Eye protection



**MS2013**  
MS1014  
150x200 mm  
ISSA 4755712  
IMPA 335712

### Eye protection in this area



**MS2014**  
MS1015  
150x200 mm  
ISSA 4755734  
IMPA 335734

### Eye protection is provided and must be worn



**MS2015**  
MS1016  
150x200 mm  
ISSA 4755730  
IMPA 335730

### Wear face shield



**MS2016**  
MS1017  
150x200 mm  
ISSA 4755716  
IMPA 335716

### Wear welding protection



**MS2017**  
MS1018  
150x200 mm  
ISSA 4755735  
IMPA 335735

### Face protection in area



**MS2018**  
MS1019  
150x200 mm  
ISSA 4755732  
IMPA 335732

### Wear mask



**MS2019**  
MS1020  
150x200 mm  
ISSA 4755719  
IMPA 335719

### Wear respirator



**MS2020**  
MS1021  
150x200 mm  
ISSA 4755731  
IMPA 335731

### Ear protection in area



**MS2021**  
MS1022  
150x200 mm  
ISSA 4755721  
IMPA 335721

### Ear protection



**MS2022**  
MS1023  
150x200 mm  
ISSA 4755723  
IMPA 335723

### Boots must be worn



**MS2023**  
MS1024  
150x200 mm  
ISSA 4755725  
IMPA 335725

### Now wash your hands



**MS2024**  
MS1026  
150x200 mm  
ISSA 4755728  
IMPA 335728

### Guards in position



**MS2025**  
MS1028  
150x200 mm  
ISSA 4755729  
IMPA 335729

### Lifejackets must be worn



**MS2026**  
MS1029  
150x200 mm  
ISSA 4755742  
IMPA 335742

### Wear lifejacket



**MS2027**  
MS1030  
150x200 mm

### Lift correctly



**MS2028**  
MS1025  
150x200 mm  
ISSA 4755727  
IMPA 335727

### Keep escape door free



**MS2029**  
150x200 mm

### Keep fire door closed and free



**MS2030**  
150x200 mm

### Keep closed at sea



**MS2031**  
150x150 mm

### Keep locked



**MS2032**  
ISPS005  
150x200 mm

### Secure hatches



**MS2051**  
150x150 mm

### Lower rescue boat



**MS2052**  
150x150 mm

### Lower liferaft



**MS2053**  
150x150 mm

### Lower Lifeboat



**MS2054**  
150x150 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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# MANDATORY SIGNS

## Watermist protected area



MS2401  
150x200 mm

Watermist.  
Protected area.  
On hearing alarm  
leave space immediately.  
Close all exits behind you.

## Hi-Fog protected area



MS2402  
150x200 mm

Hi-Fog.  
Protected area.  
On hearing alarm  
leave space immediately.  
Close all exits behind you.

## CO<sub>2</sub> protected area



MS2403  
MS1004  
150x200 mm  
ISSA 4755876  
IMPA 335876

CO<sub>2</sub>.  
Protected area.  
On hearing alarm  
leave space immediately.  
Close all exits behind you.

## Novtec 1230 protected space



MS2404  
150x200 mm

NOVTEC 1230.  
Protected area.  
On hearing alarm  
leave space immediately.  
Close all exits behind you.

## STAT-X protected space



MS2405  
150x200 mm

STAT-X.  
Protected area.  
On hearing alarm  
leave space immediately.  
Close all exits behind you.

## Sprinkler protected area



MS2406  
150x200 mm

Sprinkler / high-  
pressure water  
protected area.  
On hearing alarm  
leave space immediately.  
Close all exits behind you.

## Adjust pressure



MS2501  
MS0104  
150x200 mm  
ISSA 4755874  
IMPA 335874

ADJUST PRESSURE  
ACCORDING TO THE  
TORCH IN USE

## Secure painter



MS2502  
MS0105  
150x200 mm  
ISSA 4755875  
IMPA 335875

SECURE PAINTER  
TO STRONG POINT  
BEFORE LAUNCHING

## Keep shut



MS2503  
MS0101  
150x200 mm  
ISSA 4755871  
IMPA 335871

KEEP  
SHUT

## Keep clear



MS2504  
MS0102  
150x200 mm  
ISSA 4755870  
IMPA 335870

KEEP  
CLEAR

## Utensil wash only



MS2505  
MS1000  
150x200 mm  
ISSA 4755738  
IMPA 335738

UTENSIL  
WASH  
ONLY

## Door must be kept closed



MS2506  
MS1002  
150x200 mm  
ISSA 4755872  
IMPA 335872

THIS DOOR MUST BE KEPT  
CLOSED DURING LOADING,  
DISCHARGING, BALLASTING,  
TANK CLEANING AND GAS  
FILLING OPERATIONS

## Crew only



MS2507  
MS1005  
150x200 mm

CREW  
ONLY

## Cover all cuts and abrasions



MS2508  
MS1006  
150x200 mm  
ISSA 4755739  
IMPA 335739

COVER ALL  
CUTS AND  
ABRASIONS

## Clean up all spillages



MS2509  
MS1007  
150x200 mm  
ISSA 4755740  
IMPA 335740

SPILLAGES  
MUST BE  
CLEANED UP  
IMMEDIATELY

## Please close door quietly



MS2510  
MS1008  
150x200 mm  
ISSA 4755877  
IMPA 335877

PLEASE  
CLOSE DOOR  
QUIETLY  
PEOPLE SLEEPING

## People sleeping



MS2511  
MS1009  
150x200 mm  
ISSA 4755878  
IMPA 335878

Quiet please  
people sleeping

## Food waste only



FOOD WASTE  
ONLY

MS5001 ISSA 4755691  
MS0112 IMPA 335691  
300x100 mm

## No plastic / food waste



NO PLASTIC  
OR FOOD WASTE

MS5002 ISSA 4755692  
MS0113 IMPA 335692  
300x100 mm

## Plastic only



PLASTIC ONLY

MS5003 ISSA 4755690  
MS0114 IMPA 335690  
300x100 mm

## Think safety



THINK SAFETY

MS5004 ISSA 4755675  
MS0115 IMPA 335675  
300x100 mm

## Accidents must be reported



REPORT  
ACCIDENTS

MS5005 ISSA 4755851  
MS0116 IMPA 335851  
300x100 mm

## Wear protective clothes



WEAR PROTECTIVE  
CLOTHES  
IN THIS AREA

MS5006 ISSA 4555677  
MS0117 IMPA 335677  
300x100 mm

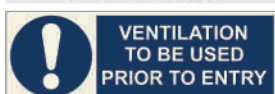
## Oil spill equipment



OIL SPILL  
EQUIPMENT  
STORED INSIDE

MS5007  
MS0118  
300x100 mm

## Ventilation to be used



VENTILATION  
TO BE USED  
PRIOR TO ENTRY

MS5008 ISSA 4755852  
MS0119 IMPA 335852  
300x100 mm

## Incineration only



INCINERATION  
ONLY

MS5009 ISSA 4755693  
MS0120 IMPA 335693  
300x100 mm

## Emergency exit keep clear



EMERGENCY EXIT  
KEEP CLEAR

MS5010 ISSA 4755830  
MS0121 IMPA 335830  
300x100 mm



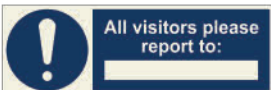
## MANDATORY SIGNS

### Man overboard procedures



**MS6001**  
MS1027  
150x200 mm  
ISSA 4755902  
IMPA 335902

### All visitors please report to



**MS6002** ISSA 4755855  
ISPS018/PS0030 IMPA 335855  
300x100 mm

### Keep this door locked



**MS6003** ISSA 4755825  
ISPS019/PS0028 IMPA 335825  
300x100 mm

### Keep this door locked



**MS6004**  
ISPS020/PS0029  
300x100 mm

### Rescue boat launching



**MS6011** ISSA 4755110  
MS1030 IMPA 335110  
200x150 mm

### Liferaft launching



**MS6012** ISSA 475111  
MS1031 IMPA 335111  
200x150 mm

### Lifeboat launching



**MS6013** ISSA 4755112  
MS1032 IMPA 335112  
200x150 mm

### Individual PPE must be worn



**MS6021**  
MS0400  
600x400 mm

### Automatic watertight door



**MS7001**  
MS0011  
150x150 mm

### Watertight door keep shut



**MS7002**  
MS0012  
150x150 mm  
ISSA 4755819  
IMPA 335819

### Hatch must be kept closed



**MS7003**  
MS0013  
150x150 mm  
ISSA 4755817  
IMPA 335817

### Door must be kept closed



**MS7004**  
MS0014  
150x150 mm  
ISSA 4755818  
IMPA 335818

### Automatic fire door



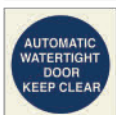
**MS7005**  
MS0015  
150x150 mm  
ISSA 4755808  
IMPA 335808

### Close in event of fire



**MS7006**  
MS0022  
150x150 mm  
ISSA 4755805  
IMPA 335805

### Automatic watertight door



**MS7007**  
150x150 mm

### Emergency door keep clear



**MS7008**  
150x150 mm

### Escape hatch keep clear



**MS7009**  
150x150 mm

### Escape door keep clear



**MS7010**  
150x150 mm

### Keep clear, emergency exit



**MS7011**  
MS0016  
150x150 mm  
ISSA 4755800  
IMPA 335800

### Fire door keep shut



**MS7013**  
MS0017  
150x150 mm  
ISSA 4755814  
IMPA 335814

### Door to be kept locked...



**MS7014**  
MS0018  
150x150 mm  
ISSA 4755805  
IMPA 335805

### Door must be kept closed



**MS7015**  
MS0019  
150x150 mm  
ISSA 4755801  
IMPA 335801

### Close this door at night



**MS7016**  
MS0020  
150x150 mm  
ISSA 4753803  
IMPA 335803

### Gangway keep clear



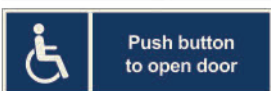
**MS7017**  
MS0021  
150x150 mm  
ISSA 4755812  
IMPA 335812

### Keep clear



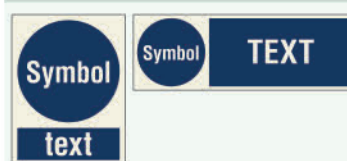
**MS7018**  
150x150 mm

### Push button to open door



**MS8001**  
450x150 mm

### ALL SYMBOLS ARE AVAILABLE WITH ADDITIONAL TEXT



## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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# MULTIPLE SIGNS

## HVAC Room



MU0001 190x120 mm  
380x240 mm

## IT Room



MU0002 190x120 mm  
380x240 mm

## Back-up navigation



MU0003 190x120 mm  
380x240 mm

## Galley



MU0004 250x120 mm  
500x240 mm

## Steering gear room



MU0005 130x120 mm  
260x240 mm

## Steering gear room PS



MU0006 250x140 mm  
500x280 mm

## Steering gear room SB



MU0007 250x140 mm  
500x280 mm

## Bow thruster room



MU0008 250x120 mm  
500x240 mm

## Casing



MU0009 190x140 mm  
380x280 mm

## Casing



MU0010 250x140 mm  
500x280 mm

## Battery room



MU0012 190x200 mm  
380x400 mm

## Emergency battery box



MU0013 190x200 mm  
380x400 mm

## Emergency generator room



MU0014 190x220 mm  
380x440 mm

## Emergency generator room



MU0015 250x220 mm  
500x440 mm

## Engine room

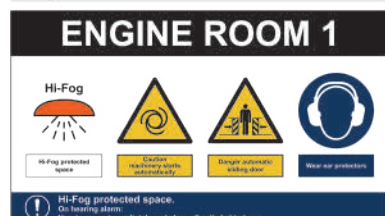


MU0016 250x140 mm  
500x280 mm



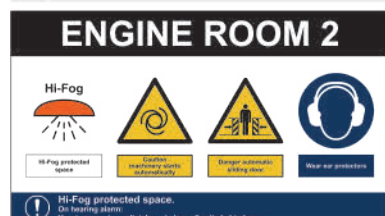
# MULTIPLE SIGNS

Engine room 1



MU0017 250x140 mm  
500x280 mm

Engine room 2



MU0018 250x140 mm  
500x280 mm

Engine control room



MU0019 250x140 mm  
500x280 mm

Switchboard room 2



MU0022 250x140 mm  
500x280 mm

FWD machinery area



MU0025 130x300 mm  
260x600 mm



Switchboard room



MU0020 250x140 mm  
500x280 mm

Machinery area



MU0023 250x140 mm  
500x280 mm

Switchboard room 1



MU0021 250x140 mm  
500x280 mm

FWD machinery area



MU0024 190x220 mm  
380x440 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material. Each of these Multiple signs in this catalog are available in:

- Pet-X (PVC-free, the environment- friendly choice)
- Retro-Reflective

Standard symbol height for the multiple signs are 50 mm or 100 mm. All proposed texts can be changed upon request. See page 140-141 for more information.

## MULTIPLE SIGNS

ER Fan room



MU0026 190x240 mm  
380x280 mm

ER 1 Fan room



MU0027 190x240 mm  
380x280 mm

ER 2 Fan room



MU0028 190x240 mm  
380x280 mm

Stabilizer room PS



MU0029 250x140 mm  
500x280 mm

Stabilizer room SB



MU0030 250x140 mm  
500x280 mm

SL Tank room PS



MU0031 250x140 mm  
500x280 mm

SL Tank room SB



MU0032 250x140 mm  
500x280 mm

Pump room



MU0033 250x120 mm  
500x240 mm

Pump room



MU0034 130x200 mm  
260x400 mm

Treatment room



MU0035 190x240 mm  
380x280 mm

Hydraulic room



MU0036 250x140 mm  
500x280 mm

Converter room



MU0037 250x120 mm  
500x240 mm

Bunkering



MU0038 190x120 mm  
380x240 mm

Bunker station



MU0039 250x120 mm  
500x240 mm



# MULTIPLE SIGNS

## LNG Bunker station



MU0040 190x200 mm  
380x400 mm



## Fuel gas treatment room



MU0041 190x200 mm  
380x400 mm

## Nitrogen room



MU0042 190x200 mm  
380x400 mm

## Deck store



MU0044 130x120 mm  
260x240 mm

## Paint store



MU0045 190x220 mm  
380x440 mm

## Oil & chemical store



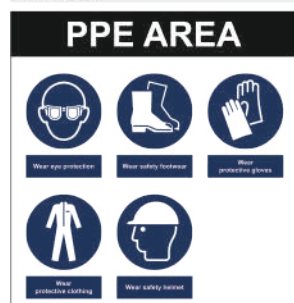
MU0046 190x200 mm  
380x400 mm

## Chemical & paint store



MU0047 190x220 mm  
380x440 mm

## PPE area



MU0048 190x200 mm  
380x400 mm

## Machinery workshop



MU0049 250x120 mm  
500x240 mm

## Confined space



MU0050 190x120 mm  
380x240 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material. Each of these Multiple signs in this catalog are available in:

- Pet-X (PVC-free, the environment- friendly choice)
- Retro-Reflective

Standard symbol height for the multiple signs are 50 mm or 100 mm. All proposed texts can be changed upon request. See page 140-141 for more information.

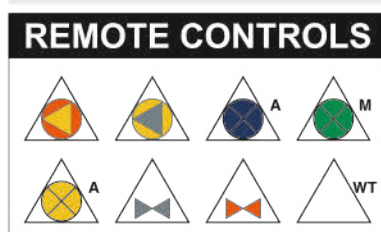
## MULTIPLE SIGNS

### Safety station



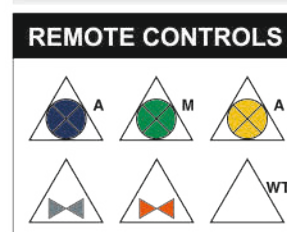
MU0051 250x200 mm  
500x400 mm

### Remote controls



MU0052 250x150 mm  
500x300 mm

### Remote controls



MU0053 190x150 mm  
380x300 mm

### Valve center



MU0054 190x120 mm  
380x240 mm

### Helideck



MU0055 350x525 mm

### Report to bridge



MU0056 190x240 mm  
380x280 mm





## MULTIPLE SIGNS

### WT door



MU2001  
300x200 mm

### Remove bottles



MU5001 ISSA 4753100  
300x200 mm IMPA 333100

### Close oxy/acetylene



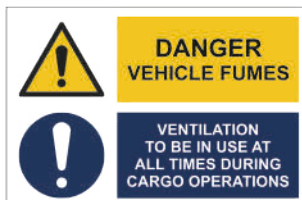
MU5002 ISSA 4753101  
CS1002/CS1020 IMPA 333101  
300x200 mm

### Remove gas cylinders



MU5003 ISSA 4753102  
CS1003/CS1021 IMPA 333102  
300x200 mm

### Use ventilation



MU5004 ISSA 4753103  
CS1004/CS1022 IMPA 333103  
300x200 mm

### Radar, satcom and radio-equipment



MU5005 ISSA 4753109  
CS1005/CS1023 IMPA 333109  
300x200 mm

### Keep out of danger



MU5006 ISSA 4753112  
CS1006/CS1024 IMPA 333112  
300x200 mm

### Danger steep ladder



MU5007 ISSA 4753116  
CS1025 IMPA 333116  
300x200 mm

### Danger explosion risk



MU5101  
CS1008  
300x200 mm

### Caution battery compartment



MU5102  
CS1010/CS1034  
300x200 mm

### Danger confined space



MU5103 ISSA 4753110  
CS1011/CS1029 IMPA 333110  
300x200 mm

### Danger hazardous area



MU5104 ISSA 4753114  
CS1012/CS1031 IMPA 333114  
300x200 mm

### Do not throw garbage overboard



MU5105 ISSA 4753115  
CS1013/CS1032 IMPA 333115  
300x200 mm

### No open lights No smoking



MU5106 ISSA 4758522  
CS1014/CS1033 IMPA 338522  
300x200 mm

### Petroleum spirit highly flammable



MU5107 ISSA 4753105  
CS1015 IMPA 333105  
300x200 mm

## MULTIPLE SIGNS

### Danger gas



MU5108 ISSA 4753104  
CS1007/CS1026 IMPA 333104  
300x200 mm

### Danger petroleum spirit highly flam



MU5109  
CS1027  
300x200 mm

### Warning crude oil



MU5110 ISSA 4753106  
CS1028 IMPA 333106  
300x200 mm

### Danger asbestos



MU5112 ISSA 4753113  
CS1030 IMPA 333113  
400x300 mm



### MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material. Each of these Multiple signs in this catalog are available in:

- Pet-X (PVC-free, the environment- friendly choice)
- Retro-Reflective

Standard symbol height for the multiple signs are 50 mm or 100 mm. All proposed texts can be changed upon request. See page 140-141 for more information.



# MULTIPLE SIGNS

## Refrigerated space



MU9001 ISSA 4753122  
CS1035 IMPA 333122  
300x300 mm

## Gas bottle store



MU9002 ISSA 4753125  
CS1036 IMPA 333125  
300x300 mm

## Fridge machinery



MU9003 ISSA 4753129  
CS1037 IMPA 333119  
300x300 mm

## Battery locker



MU9004 ISSA 4753123  
CS1038 IMPA 333123  
300x300 mm

## Paint store



MU9005 ISSA 4753126  
CS1039 IMPA 333126  
300x300 mm

## Emergency generator



MU9006 ISSA 4753135  
CS1040 IMPA 333135  
300x300 mm

## Galley



MU9007 ISSA 4753124  
CS1041 IMPA 333124  
300x300 mm

## Switch gear



MU9008 ISSA 4753127  
CS1042 IMPA 333127  
300x300 mm

## Steering gear



MU9009 ISSA 4753136  
CS1043 IMPA 333136  
300x300 mm

## Machinery space



MU9010 ISSA 4753111  
CS1009 IMPA 333111  
300x300 mm

## Machinery space



MU9011 ISSA 4753111  
CS1044 IMPA 333111  
300x300 mm

## Forecastle space



MU9012 ISSA 4753128  
CS1045 IMPA 333128  
300x300 mm

## MULTIPLE SIGNS

### Pump room



MU9013 ISSA 4753137  
CS1046 IMPA 333137  
300x300 mm

### Chemical locker



MU9014  
CS1047  
300x300 mm

### Security notice



MU9016 ISSA 4753139  
CS1016/ISPS0034 IMPA 333139  
300x300 mm

### Security notice



MU9017 ISSA 4753138  
CS1017/ISPS0033 IMPA 333138  
300x400 mm

### Warning dangerous cargo



MU9018 ISSA 4753014  
CS1018 IMPA 333014  
400x600 mm

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material. Each of these Multiple signs in this catalog are available in:

- Pet-X (PVC-free, the environment- friendly choice)
- Retro-Reflective

Standard symbol height for the multiple signs are 50 mm or 100 mm. All proposed texts can be changed upon request.

See page 140-141 for more information.



## MULTIPLE SIGNS CUSTOM MADE

Whether you need a sign to combine multiple symbols with text in your own language or you simply want to create your own custom signs from scratch, the team at T-ISS has the right tools for you. Based on professionally designed templates that are made ready for you to customize, you can easily combine multiple signs and text to create a professional looking safety sign.

- Step 1. Choose your template to customize
- Step 2. Choose your symbol(s)
- Step 3. Choose your own text
- Step 4. Choose the type of material in which we need to create your sign
- Step 5. The team at T-ISS creates your custom made sign(s)

### CUSTOM MADE HORIZONTAL

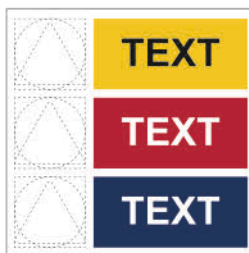
#### Multiple signs - Untitled

2 Multiple signs horizontal untitled



MH0102U 150x100 mm  
300x200 mm

3 Multiple signs horizontal untitled



MH0302U 150x150 mm  
300x300 mm

4 Multiple signs horizontal untitled



MH0104U 150x200 mm  
300x400 mm

#### Multiple signs - Titled

2 Multiple signs horizontal titled



MH0102T 150x130 mm  
300x260 mm

3 Multiple signs horizontal titled



MH0103T 150x180 mm  
300x360 mm

4 Multiple signs horizontal titled



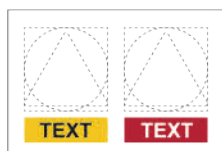
MH0104T 150x230 mm  
300x460 mm

# MULTIPLE SIGNS CUSTOM MADE

## CUSTOM MADE VERTICAL

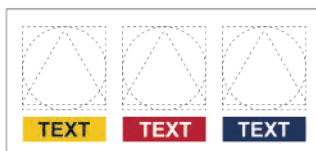
### Multiple signs - Untitled

2 Multiple signs vertical untitled



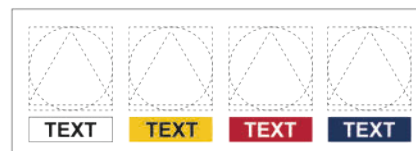
MV0201U 130x90 mm  
260x180 mm

3 Multiple signs vertical untitled



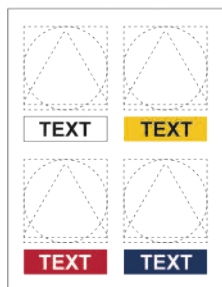
MV0301U 190x90 mm  
380x180 mm

4 Multiple signs vertical untitled



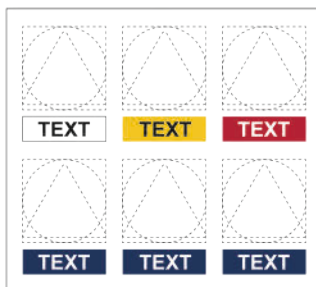
MV0401U 250x90 mm  
500x180 mm

2x2 Multiple signs vertical untitled



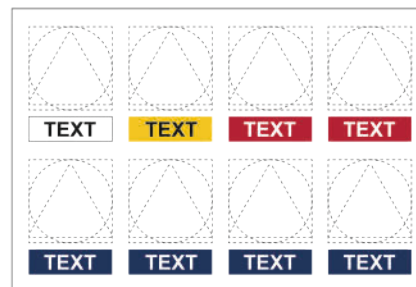
MV0202U 130x170 mm  
260x340 mm

3x2 Multiple signs vertical untitled



MV0302U 190x170 mm  
380x340 mm

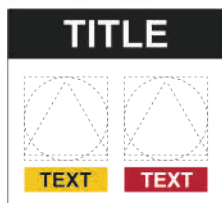
4x2 Multiple signs vertical untitled



MV0402U 250x170 mm  
500x340 mm

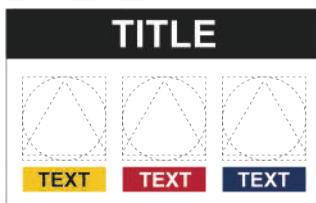
### Multiple signs - Titled

2 Multiple signs vertical titled



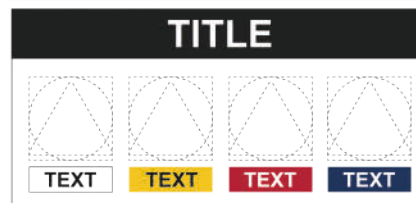
MV0201T 130x120 mm  
260x240 mm

3 Multiple signs vertical titled



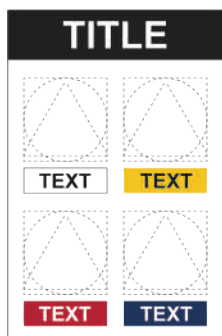
MV0301T 190x120 mm  
380x240 mm

4 Multiple signs vertical titled



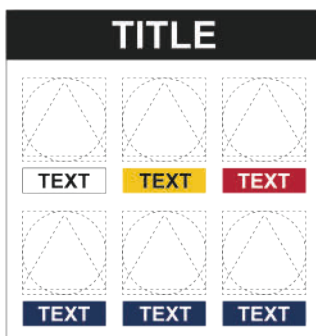
MV0401T 250x120 mm  
500x240 mm

2x2 Multiple signs vertical titled



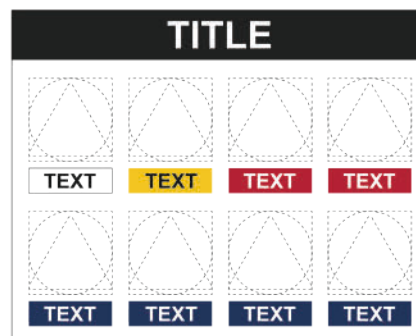
MV0202T 130x200 mm  
260x400 mm

2x3 Multiple signs vertical titled



MV0302T 190x200 mm  
380x400 mm

2x4 Multiple signs vertical titled



MV0402T 250x200 mm  
500x400 mm



## CAR DECK SIGNS

Cardriver safety EN



CD1001 800x700 mm  
1600x1400 mm

Cardriver safety FR/EN/ES



CD1011 1000x800 mm  
2000x1600 mm

Cardriver safety EN



CD1002  
Standard size 2000x600 mm

Cardriver safety FR/EN/ES



CD1012  
Standard size 2000x600 mm

OTHER LANGUAGES ON REQUEST

ALSO AVAILABLE WITH COMPANY AND/OR  
"WELCOME ON BOARD" TEXT



## CAR DECK SIGNS

Maximum width 2,5 m



CD3001  
400x400 mm

Maximum width 2,8 m



CD3002  
400x400 mm

Maximum width 3,1 m



CD3003  
400x400 mm

Maximum width on request



CD3009  
400x400 mm

Maximum height 2,2 m



CD3011  
400x400 mm

Maximum height 4,8 m



CD3012  
400x400 mm

Maximum height 4,9 m



CD3013  
400x400 mm

Maximum height on request



CD3019  
400x400 mm

Weight 45t



CD3021  
400x400 mm

Maximum weight on request



CD3029  
400x400 mm

Axle weight



CD3031  
400x400 mm

Max. axle weight on request



CD3039  
400x400 mm

Max speed 10 km



CD3041  
400x400 mm

Max speed 15 km



CD3042  
400x400 mm

Ramp up



CD4001  
400x400 mm

Ramp down



CD4002  
400x400 mm

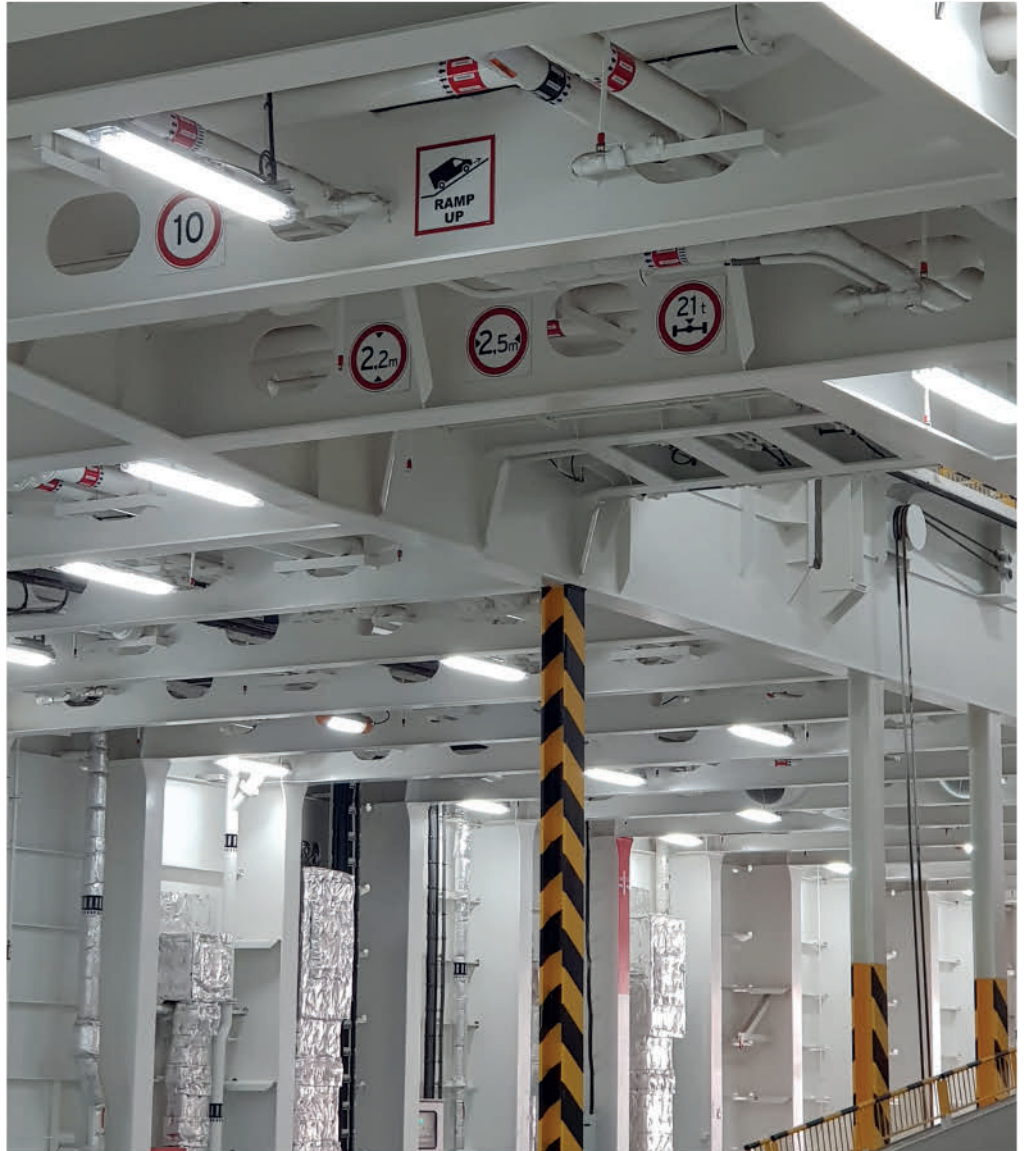
Smoking prohibited



CD4003  
400x400 mm

OTHER SIZES ON REQUEST

STANDARD SIZE  
400X400 MM





## SAFETY INSTRUCTION SIGNS

SOLAS Part 1, Chapter III-part B. regulation 8.4 and MSC/Circ. 699 requires installation and instructions in appropriate languages pasted in cabins, assembly stations and other passenger spaces showing the 'you are here' position and escape routes marked by arrows displayed on the inside of each cabin door and in public spaces. The plan shall show the directions of escape and shall be properly oriented in relation to its position on the ship.

IMO A.752(18) requires a placard explaining the LLL system in all cabins. The basics for engineering a Safety Instruction sign comes from the ship's embarkation and rescue plan and from the ISO principles of designing an evacuation plan.

### CABIN SAFETY INSTRUCTION

The Safety Instruction sign in a cabin displays the primary and alternative route to the designated assembly station, displayed in both plan view and sideview, emergency instructions and donning instructions for the lifejackets.

The displayed primary and alternative escape routes must be in full compliance with the signs at the LLL system and escape signs on eye height and according the ships embarkation plan.

### SAFETY INSTRUCTION

#### Instructions for escape

**Escape route signing:**

- Arrows and numbers in the documentation are provided with escape route marking allowing you to find the nearest escape.
- This escape route marking will guide you to the assembly station.

**Primary escape route signing:**

- The primary escape route is the fastest, shortest and safest escape route to the assembly station. The primary escape route is marked by the sign as shown on the right.

**Alternative escape route signing:**

- The alternative escape route provides a secondary route to the assembly station. The escape route is marked by the sign as shown on the right.

**Lifejackets and immersion suits:**

- Lifejackets are stored at the assembly station on deck 6.
- Immersion suits are stored in your cabin.

**Learn to find the way to your assembly station!**

**ASSEMBLY STATION OVERVIEW**

ASSEMBLY STATIONS LOCATED ON DECK 6

**DECK 10**

**SIDE VIEW**

**YOU ARE HERE**

**OVERVIEW**

#### Alarm and incidents instructions

**General Emergency Alarm Signal**

7 short and 1 long blast

**Fire alarm**

Continuous alarm sounding

**Man overboard**

3 long blasts followed by voice "MAN OVERBOARD", every 10 seconds

**Abandon ship alarm**

Voiced order by the master or substitute

**ON HEARING THE ALARM SIGNAL**

- Proceed directly to your designated assembly station.
- If you are in or near to your cabin when the alarm is heard, then wait in, collect any essential medication, or follow the direction signal to the assembly station.
- The direction sign in assembly station consists of the assembly station sign and an arrow pointing in the appropriate direction. As shown in the instructions for escape.
- Assist those who need help.
- Follow instructions from master crew and those given over the public address system.
- DO NOT return to your cabin to collect your property.
- DO NOT search for others. The assembly station is the meeting point.
- DO NOT use the elevator.
- If the nearest escape route is blocked, use an alternative route.
- Remain calm and follow instructions from the master crew of your assembly station.
- If there is smoke in the hallway a light strip near the floor will lead you to exit.

**Report all incidents, accidents or potential hazards.**

**How to wear your lifejacket**

1. Unhook lifejacket
2. Put the lifejacket over the head
3. Pull the handle and tighten the waist belt in a backboard position
4. Unhook mouth strap handle and bring mouth strap up between the legs and behind the back

### SAFETY INSTRUCTION

TT-Line  
The smart way

**General Alarm**

7 short and 1 long blast

**Fire alarm**

Continuous alarm sounding

**Man overboard**

3 long blasts followed by voice "MAN OVERBOARD", every 10 seconds

**Abandon ship alarm**

Voiced order by the master or substitute

**ON HEARING THE ALARM SIGNAL**

- Proceed directly to your designated assembly station.
- If you are in or near to your cabin when the alarm is heard, then wait in, collect any essential medication, or follow the direction signal to the assembly station.
- The direction sign in assembly station consists of the assembly station sign and an arrow pointing in the appropriate direction. As shown in the instructions for escape.
- Assist those who need help.
- Follow instructions from master crew and those given over the public address system.
- DO NOT return to your cabin to collect your property.
- DO NOT search for others. The assembly station is the meeting point.
- DO NOT use the elevator.
- If the nearest escape route is blocked, use an alternative route.
- Remain calm and follow instructions from the master crew of your assembly station.
- If there is smoke in the hallway a light strip near the floor will lead you to exit.

**How to wear your lifejacket**

1. Unhook lifejacket
2. Put the lifejacket over the head
3. Pull the handle and tighten the waist belt in a backboard position
4. Unhook mouth strap handle and bring mouth strap up between the legs and behind the back

# SAFETY INSTRUCTION SIGNS

## SAFETY INSTRUCTIONS PUBLIC SPACE

The Safety Instructions for the public areas show where you are in relation to the assembly stations, the instructions in case of emergency and near the lifejacket storage areas, the instructions for putting on the lifejackets. This plan also shows in a plan view the positions of the lifeboats, embarkation stations and life jacket stowage areas on the respective decks.

T-ISS can provide the engineering and drawing work for the Safety Instructions fully in line with the complete escape route system, consisting of the LLL with their mini symbols, photoluminescent and electrical escape route symbols and the instructions explaining the symbols used and other relevant information.

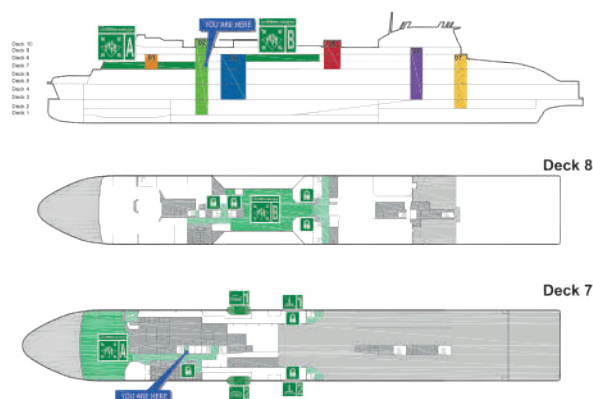
The Safety Instructions can be designed in the company's corporate style with their logos or in a neutral ISO recommended style.

## SAFETY INSTRUCTION

### IF EMERGENCY ALARM SOUNDS, GO TO YOUR ASSEMBLY STATION

General alarm signal ..... 7 shorts and 1 long blast

- On hearing the emergency alarm signal, dress warmly, collect any essential medication and follow the signs to your assembly station
- Assist those who need help
- Follow instructions of crew members and those given over the public address system
- Do not search for others in your party, the assembly station is your meeting point
- Do not use the elevators
- At the assembly station a crew member will give you a lifejacket. Put it on. The crew members will help you if necessary
- Child lifejackets are available for smaller children



Primary escape route signs to assembly station Alternative escape route signs Embarkation station lifeboat Embarkation station for MES, Marine Evacuation System Lifejacket

Low location Lighting system   
In the event of an emergency, a low level guidance system will help you. Follow the strip and it will lead to an exit.  
In case of smoke in the corridor keep close to the floor to avoid breathing the smoke and to be able to see more clearly.

1. Don lifejacket placing yoke over head and back around body
2. Connect buckle by pushing two parts firmly together
3. Pull securing tape as tight as possible (aided by holding onto buckle)
4. For additional security fasten the top buckle where possible
5. Tuck excess webbing behind jacket
6. Hold lifejacket and nose firmly when jumping in to the water





## DISPLAYS OF SAFETY INSTRUCTIONS & SAFETY PLANS

T-ISS offers options to execute the safety instructions:

- PET-X vandalism resistant and glossy appearance
- PET-X photoluminescent, vandalism resistant and glossy appearance
- Click frames for easy changing of new revisions
- Vinyl sticker
- Other luxury options such as brushed Stainless Steel or polished brass



### Click frames

Quick and easy to exchange plans for:

- Safety instructions
- Fire Control plans
- Damage control plans
- Embarkation plans
- Muster lists
- General arrangements



Article number	Dimension
CLF20S4	A4 (20 mm profile)
CLF20S3	A3 (20 mm profile)
CLF20S2	A2 (20 mm profile)
CLF32S1	A1 (32 mm profile)
CLF32S0	A0 (32 mm profile)
CLFCM	Dimensions on request (max. size 3000 x 1500 mm)



The insert prints can also be fitted in weather resistant Hydroprint, please ask for the possibilities.

In cases of limited space e.g. at the bridge or in the ECR, we offer the Rolalux Roll-down Cassette (see page 15 of this catalog).

## ISPS SIGNS

## Security level set of 3



IS0007  
300x150 mm

## Security level 1



IS0008 ISSA 4752703  
ISPS 007-1 IMPA 332703  
300x150 mm

## Security level 2



IS0009 ISSA 4752703  
ISPS 007-2 IMPA 332703  
300x150 mm

## Security level 3



IS0010 ISSA 4752703  
ISPS 007-3 IMPA 332703  
300x150 mm

## Warning



IS1010  
ISPS 009  
300x100 mm

## All visitors please report



IS1011 ISSA 4752924  
ISPS 011 IMPA 332924  
300x200 mm

## All visitors report to security office



IS1012 ISSA 4752824  
ISPS 012 IMPA 332824  
300x200 mm

## Ship security office



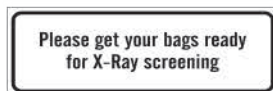
IS1013 ISSA 4752892  
ISPS 013 IMPA 332895  
300x100 mm

## ID control



IS1014  
ISPS 014  
300x100 mm

## X-ray screening



IS1015  
ISPS 015  
300x100 mm

## Metal detector



IS1016  
ISPS 016  
300x100 mm

## Reception



IS1017 ISSA 4752907  
ISPS 017 IMPA 332907  
300x100 mm

## Direction arrow (90°)



## Direction arrow (45°)

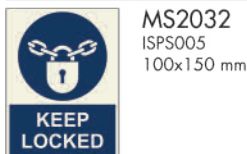


## Restricted area



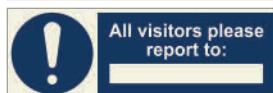
IS1018  
ISPS 029  
300x100 mm

## Keep locked



MS2032  
ISPS005  
100x150 mm

## All visitors please report to



MS6002 ISSA 4755855  
ISPS018/PS0030 IMPA 335855  
300x100 mm

## Keep this door locked



MS6003 ISSA 4755825  
ISPS019/PS0028 IMPA 335825  
300x100 mm

## Keep this door locked

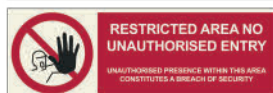


MS6004 300x100 mm  
ISPS020/PS0029

## No access for unauthorized



## Restricted area



PS5009  
PS0026  
300x100 mm

## No photography



PS5010  
PS0027  
300x100 mm

## Do not enter



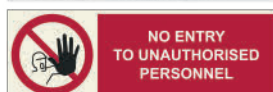
PS5024 ISSA 4758542  
PS1011 IMPA 338542  
300x100 mm

## Authorised personnel only



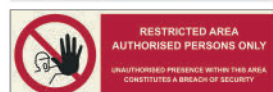
PS5029 ISSA 4758545  
PS1016/ISPS023 IMPA 338545  
300x100 mm

## No entry unauth. pers



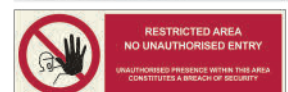
PS5030 300x100 mm  
PS1017/ ISSA 4758544  
ISPS024/ISPS025 IMPA 338544

## Restricted area...



PS5031 ISSA 4758691  
PS1018/ISPS028 IMPA 338691  
300x100 mm

## Restricted area...



PS5032  
ISPS027  
300x100 mm



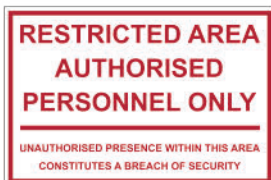
## ISPS SIGNS

### Restricted area



IS1040  
ISPS 030  
300x200 mm

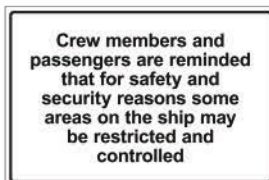
### Restricted area



IS1041  
ISPS 031  
300x200 mm

ISSA 4758695  
IMPA 338695

### Crew member



IS1042  
ISPS 032  
300x200 mm

### Ship complies with IMO ISPS code



IS1043  
ISPS 035  
300x200 mm

ISSA 4753140  
IMPA 333140

### VDR voice recording



IS3001  
ISPS 036  
100x100 mm  
ISSA 4752889  
IMPA 332889

### CCTV surveillance



IS3002  
ISPS 1001  
100x100 mm  
ISSA 4752896  
IMPA 332896

### CCTV in operation



IS3003  
ISPS 1002  
100x100 mm  
ISSA 4752974  
IMPA 332974

### Security notice



MU 9016  
CS1016/ISPS0034  
300x300 mm

ISSA 4753139  
IMPA 333139

### Security notice



MU 9017  
CS1017/ISPS0033  
300x400 mm

ISSA 4753138  
IMPA 333138

## MATERIAL SPECIFICATIONS & AVAILABLE SIZES

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:

• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparant Vinyl • White, self-adhesive vinyl (non-reflective)

Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.

# IMO POSTERS

## Liferaft launching



TP0001 ISSA 4751002  
TP001-2 IMPA 331502  
300x400 mm

## Enclosed spaces



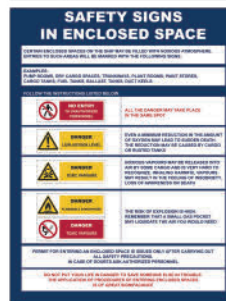
TP0003 ISSA 4751004  
TP003 IMPA 331504  
300x400 mm

## Liferaft launched with a davit



TP0004 ISSA 4751045  
TP004 IMPA 331545  
300x400 mm

## Safety signs in enclosed space



TP0005 ISSA 4751007  
TP005 IMPA 331507  
300x400 mm

## Oil spill prevention



TP0006 ISSA 4751008  
TP006 IMPA 331508  
300x400 mm

## Oil spill actions



TP0007 ISSA 4751023  
TP007 IMPA 331523  
300x400 mm

## Types of fire extinguishers



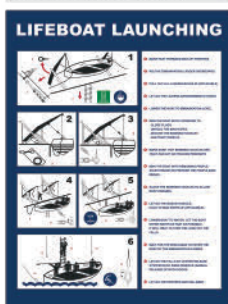
TP0008 ISSA 4751027  
TP008 IMPA 331527  
300x400 mm

## Gas precautions



TP0009 ISSA 4751032  
TP009 IMPA 331532  
300x400 mm

## Lifeboat launching



TP0010 ISSA 4751001  
TP010 IMPA 331501  
300x400 mm

## Free fall lifeboat



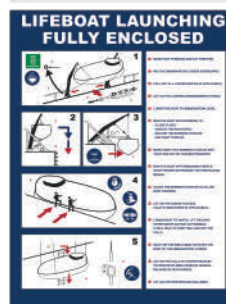
TP0011 ISSA 4751020  
TP011 IMPA 331520  
300x400 mm

## Launching lifeboats



TP0012 ISSA 4751005  
TP012 IMPA 331505  
300x400 mm

## Enclosed lifeboat launching



TP0013 ISSA 4751004  
TP013 IMPA 331504  
300x400 mm

## Abandon ship



TP0014 ISSA 4751016  
TP014 IMPA 331516  
300x400 mm

## Serious injury / shock



TP0015 ISSA 4751009  
TP015 IMPA 331509  
300x400 mm

## Enclosed space and tank rescue



TP0016 ISSA 4751017  
TP016 IMPA 331517  
300x400 mm

## Man overboard



TP0017 ISSA 4751015  
TP017 IMPA 331515  
300x400 mm



# IMO POSTERS

## Craneage safety signals



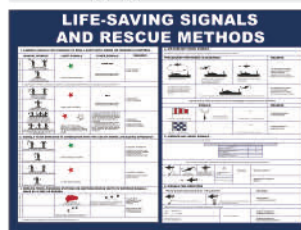
TP0018 ISSA 4751030  
TP018 IMPA 331530  
300x400 mm

## IMO safety symbols



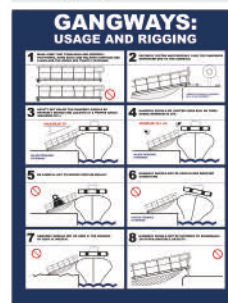
TP0019 ISSA 4751036  
TP019 IMPA 331536  
300x400 mm

## Life-saving signals and rescue...



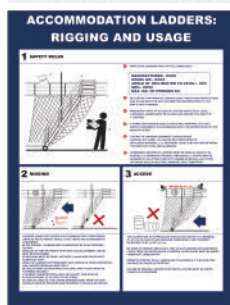
TP0020 ISSA 4751058  
TP020 IMPA 331558  
400x300 mm

## Gangways



TP0021 ISSA 4751014  
TP021 IMPA 331514  
300x400 mm

## Accommodation ladders



TP0022 ISSA 4751013  
TP022 IMPA 331513  
300x400 mm

## Food hygiene on board



TP0023 ISSA 4751044  
TP023 IMPA 331544  
300x400 mm

## Engine and machine room safety



TP0024 ISSA 4751035  
TP024 IMPA 331535  
300x400 mm

## Outboard or aloft work jobs



TP0025 ISSA 4751025  
TP025 IMPA 331525  
300x400 mm

## Refuelling



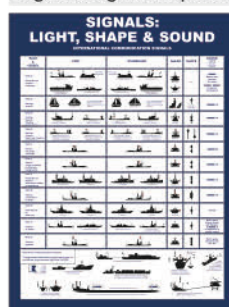
TP0026 ISSA 4751022  
TP026 IMPA 331522  
300x400 mm

## Personal protection gear



TP0027 ISSA 4751028  
TP027 IMPA 331528  
300x400 mm

## Signals; light, shape and sound



TP0028 ISSA 4751034  
TP028 IMPA 331534  
300x400 mm

## Hot work



TP0029 ISSA 4751024  
TP029 IMPA 331524  
300x400 mm

## Fire and explosion vital actions



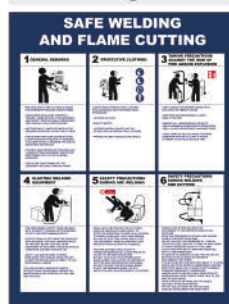
TP0030 ISSA 4751031  
TP030 IMPA 331531  
300x400 mm

## Self contained breathing app.



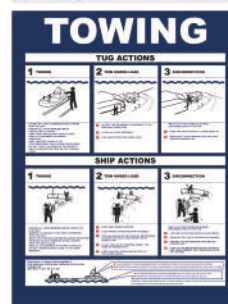
TP0031 ISSA 4751047  
TP031 IMPA 331547  
300x400 mm

## Safe welding and cutting



TP0032 ISSA 4751033  
TP032 IMPA 331533  
300x400 mm

## Towing



TP0033 ISSA 4751021  
TP033 IMPA 331521  
300x400 mm

# IMO POSTERS

## Immersion suit donning



TP0034  
TP034  
300x400 mm

## Lifejacket instructions



TP0035  
TP035  
300x400 mm

## Garbage overboard



TP0036  
TP036  
300x400 mm

ISSA 4751042  
IMPA 331542

## Mooring procedures



TP0037  
TP037  
300x400 mm

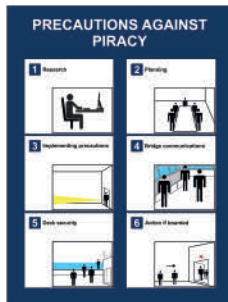
ISSA 4751064  
IMPA 331564

## Fast rescue boat operation



TP0038  
TP038  
300x400 mm

## Precautions against piracy



TP0039  
TP039  
300x400 mm

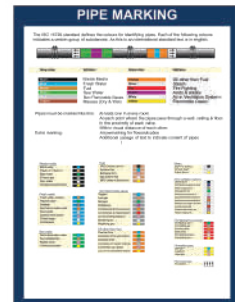
## IMO fire control symbols



TP0040  
TP040  
300x400 mm

ISSA 4751057  
IMPA 331557

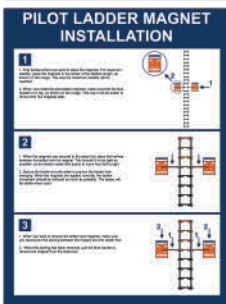
## Pipe marking ISO14726



TP0041  
TP041  
300x400 mm

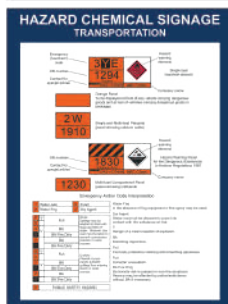
ISSA 4751066  
IMPA 331566

## Pilot ladder magnet installation



TP0043  
TP043  
300x400 mm

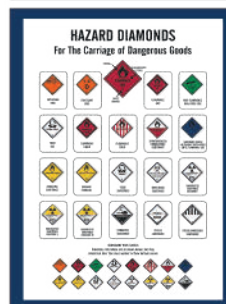
## Hazard chemical signage



TP0044  
TP044  
300x400 mm

ISSA 4751044  
IMPA 331544

## Hazard diamonds



TP0045  
TP045  
300x400 mm

ISSA 4751048  
IMPA 331548

## Hazard substance symbols



TP0046  
TP046  
300x400 mm

ISSA 4751049  
IMPA 331549

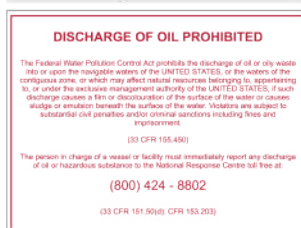
## Regulations garbage disposal



TP0048  
TP048  
300x400 mm

ISSA 4751029  
IMPA 331529

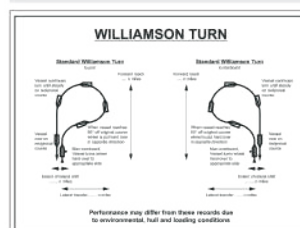
## Oil discharge USA



TP0049  
TP049  
400x300 mm

ISSA 4751043  
IMPA 331543

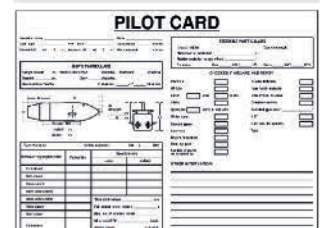
## Williamson turn



TP0050  
TP050  
400x300 mm

ISSA 4751065  
IMPA 331565

## Pilot card



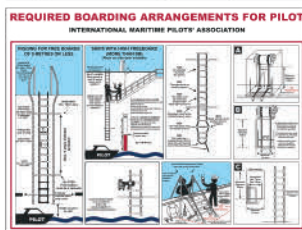
TP0051  
TP051  
400x300 mm

ISSA 4751011  
IMPA 331511



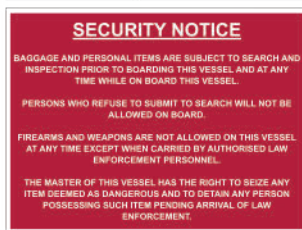
# IMO POSTERS

## Required boarding arrangements



TP0052 ISSA 4751526  
TP052 IMPA 331526  
400x300 mm

## Visitors safety instructions



TP0053  
TP053  
400x300 mm

## Pneumatic locker installation



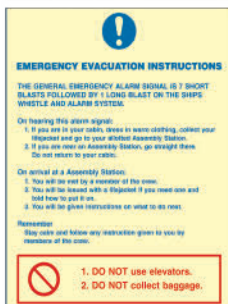
TP0054  
TP054  
300x400 mm

## Flag chart



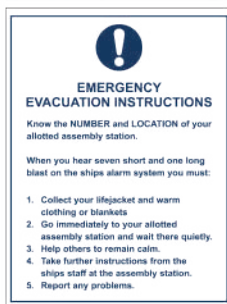
TP0057  
TP057  
300x400 mm

## Emergency evacuation instructions



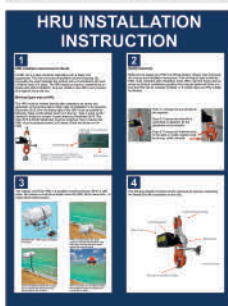
TP0058 ISSA 4755900  
TP058 IMPA 335900  
300x400 mm

## Emergency instructions passengers



TP0059 ISSA 4755903  
TP059 IMPA 335903  
300x400 mm

## HRU installation instruction



TP0060  
TP060  
300x400 mm



## ALSO AVAILABLE UPON REQUEST:

Article number	Description	Dimensions	ISSA	IMPA
TP0002	Evacuation chute and slide	300x400 mm	4751046	331546
TP0042	Compass rose	300x400 mm	-	-
TP0047	Low location light instructions	300x400 mm	-	-
TP0055	Smoking regulation	300x400 mm	-	-
TP0056	Dead man alarm	300x400 mm	-	-

# IMO POSTERS

Forbidden to throw garbage overboard



TP1001 ISSA 4751042  
SP001 IMPA 331542  
300x400 mm

Map wheelhouse 1/2



TP1002 ISSA 4751010  
SP002 IMPA 331510  
300x400 mm

Map wheelhouse 2/2



TP1003 ISSA 4751010  
SP003 IMPA 331510  
300x400 mm

Emergency muster list



TP1004 ISSA 4751012  
SP004 IMPA 331512  
300x400 mm

Drug warning notice



TP1005 ISSA 4751037  
SP005 IMPA 331537  
300x400 mm

Drug and alcohol warning notice



TP1006 ISSA 4751039  
SP006 IMPA 331539  
300x400 mm

Warning notice



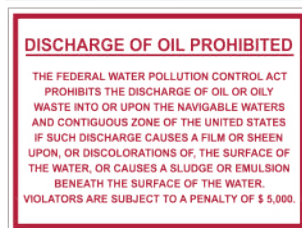
TP1007 ISSA 4751041  
SP007 IMPA 331541  
300x400 mm

Rescue boat launching procedure



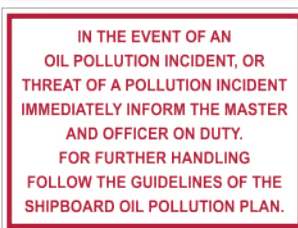
TP1008 ISSA 4751001  
SP019 IMPA 331501  
400x300 mm

Discharge of oil prohibited



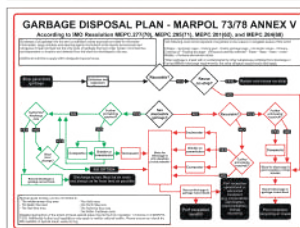
TP1009 ISSA 4751043  
SP020 IMPA 331543  
400x300 mm

Oil pollution event



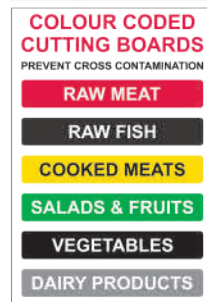
TP1010  
SP021  
400x300 mm

Garbage disposal plan



TP1011 ISSA 4751029  
SP022  
400x300 mm

Cutting boards



TP1012  
SP025  
300x400 mm























Discharge of garbage



TP1013  
SP090  
300x400 mm

























# TIE TAGS

<p>Caution</p>  <p>TT 0001 ISSA 4752501 IMPA 332501</p>	<p>Defective equipment</p>  <p>TT 0002 ISSA 4752502 IMPA 332502</p>	<p>Asbestos</p>  <p>TT 0003 ISSA 4752503 IMPA 332503</p>	<p>Current on</p>  <p>TT 0004 ISSA 4752504 IMPA 332504</p>
<p>Harmful</p>  <p>TT 0005 ISSA 4752505 IMPA 332505</p>	<p>Irritant</p>  <p>TT 0006 ISSA 4752506 IMPA 332506</p>	<p>Corrosive</p>  <p>TT 0007 ISSA 4752507 IMPA 332507</p>	<p>Flammable</p>  <p>TT 0008 ISSA 4752508 IMPA 332508</p>
<p>Explosive</p>  <p>TT 0009 ISSA 4752509 IMPA 332509</p>	<p>Poison</p>  <p>TT 0010 ISSA 4752510 IMPA 332510</p>	<p>Gas</p>  <p>TT 0011 ISSA 4752541 IMPA 332541</p>	
<p>Do not close valve</p>  <p>TT 0012 ISSA 4752520 IMPA 332520</p>	<p>Do not open valve</p>  <p>TT 0013 ISSA 4752521 IMPA 332521</p>	<p>Do not close</p>  <p>TT 0014 ISSA 4752522 IMPA 332522</p>	<p>Do not open</p>  <p>TT 0015 ISSA 4752523 IMPA 332523</p>
<p>Do not move</p>  <p>TT 0016 ISSA 4752524 IMPA 332524</p>	<p>Do not start</p>  <p>TT 0017 ISSA 4752525 IMPA 332525</p>	<p>Do not use</p>  <p>TT 0018 ISSA 4752526 IMPA 332526</p>	<p>Do not start, men working</p>  <p>TT 0019 ISSA 4752527 IMPA 332527</p>
<p>Do not use, out of order</p>  <p>TT 0020 ISSA 4752528 IMPA 332528</p>	<p>Do not operate</p>  <p>TT 0021 ISSA 4752530 IMPA 332530</p>	<p>Do not touch</p>  <p>TT 0022 ISSA 4752531 IMPA 332531</p>	

## GENERAL INFORMATION

THE TIETAGS ARE DELIVERED IN PACKS OF 10 PCS  
THE STANDARD SIZE IS 75 X 100 MM

## PUBLIC INFORMATION SIGNS

<b>Toilets-female</b>  <b>PI0001</b> IS001 150x150 mm ISSA 4752409 IMPA 332409	<b>Toilets-male</b>  <b>PI0002</b> IS002 150x150 mm ISSA 4752410 IMPA 332410	<b>Toilets-unisex</b>  <b>PI0003</b> IS003 150x150 mm ISSA 4752408 IMPA 332408	<b>Full accesible or toilets-accesable</b>  <b>PI0004</b> IS004 150x150 mm ISSA 4752401 IMPA 332401
<b>Reception or check-in</b>  <b>PI0005</b> IS005/IS011 150x150 mm	<b>Information</b>  <b>PI0006</b> 150x150 mm	<b>Meeting point</b>  <b>PI0007</b> IS007 150x150 mm	<b>Cinema</b>  <b>PI0008</b> IS008 150x150 mm
<b>Nursery or baby care</b>  <b>PI0009</b> IS010 150x150 mm ISSA 4752443 IMPA 332443	<b>Business center</b>  <b>PI0010</b> IS012 150x150 mm	<b>Teaching room</b>  <b>PI0011</b> IS013 150x150 mm	<b>Meeting room or conference facilities</b>  <b>PI0012</b> IS015 150x150 mm
<b>Lounge or waiting area</b>  <b>PI0013</b> IS016 150x150 mm	<b>Cupboard</b>  <b>PI0014</b> IS017 150x150 mm	<b>Trash box or litter bin</b>  <b>PI0015</b> IS019 150x150 mm	<b>Restaurant</b>  <b>PI0016</b> 150x150 mm
<b>Refreshments - Coffee or buffet</b>  <b>PI0017</b> 150x150 mm	<b>Surveillance camera</b>  <b>PI0018</b> 150x150 mm	<b>Accommodation facilities or hotel</b>  <b>PI0019</b> 150x150 mm	<b>Shop or shopping</b>  <b>PI0020</b> 150x150 mm
<b>Pharmacy</b>  <b>PI0021</b> 150x150 mm	<b>Bar</b>  <b>PI0022</b> 150x150 mm	<b>Snack machine</b>  <b>PI0023</b> 150x150 mm	<b>Smoking area or smoking allowed</b>  <b>PI0024</b> 150x150 mm
<b>Sauna</b>  <b>PI0025</b> IS006 150x150 mm	<b>Hospital</b>  <b>PI0026</b> 150x150 mm	<b>Drinking water</b>  <b>PI0027</b> 150x150 mm	<b>Shower</b>  <b>PI0028</b> 150x150 mm

### MATERIAL SPECIFICATIONS & AVAILABLE SIZES




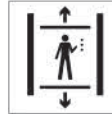






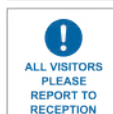

Standard size signs made of Pet-X material are all on stock and directly available. Each of the signs in this catalog are available in multiple different types of materials:

• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparant Vinyl • White, self-adhesive vinyl (non-reflective)

Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.



## PUBLIC INFORMATION SIGNS

<p>Lost and found or lost property</p>  <p>PI0029 150x150 mm</p>	<p>Baggage lockers or coin lockers</p>  <p>PI0030 150x150 mm</p>	<p>Stairs</p>  <p>PI0031 150x150 mm</p>	<p>Lift or elevator</p>  <p>PI0032 150x150 mm</p>
<p>Accesable lift or elevator</p>  <p>PI0033 150x150 mm</p>	<p>Direction arrow (90°)</p>  <p>PI1001 150x150 mm</p>	<p>Direction arrow (45°)</p>  <p>PI1002 150x150 mm</p>	<p>Toilet instructions</p>  <p>PI2001 ISO09 150x150 mm</p>
<p>Hand dryer</p>  <p>PI2002 150x150 mm</p>	<p>All visitors report security office</p>  <p>PI5001 ISO20 150x150 mm</p>	<p>All visitors report to reception</p>  <p>PI5002 ISO21 150x150 mm</p>	<p>No access</p>  <p>PI5003 ISO18 150x150 mm ISSA 4752421 IMPA 332421</p>



## SIGNAL FLAGS

Signalflag A



FL001  
1500x1000 mm  
ISSA 371511  
IMPA 491315

Signalflag B



FL002  
1500x1000 mm  
ISSA 371512  
IMPA 491316

Signalflag C



FL003  
1500x1000 mm  
ISSA 371513  
IMPA 491317

Signalflag D



FL004  
1500x1000 mm  
ISSA 371514  
IMPA 491318

Signalflag E



FL005  
1500x1000 mm  
ISSA 371515  
IMPA 491319

Signalflag F



FL006  
1500x1000 mm  
ISSA 371516  
IMPA 491320

Signalflag G



FL007  
1500x1000 mm  
ISSA 371517  
IMPA 491321

Signalflag H



FL008  
1500x1000 mm  
ISSA 371518  
IMPA 491322

Signalflag I



FL009  
1500x1000 mm  
ISSA 371519  
IMPA 491323

Signalflag J



FL010  
1500x1000 mm  
ISSA 371520  
IMPA 491324

Signalflag K



FL011  
1500x1000 mm  
ISSA 371521  
IMPA 491325

Signalflag L



FL012  
1500x1000 mm  
ISSA 371522  
IMPA 491326

Signalflag M



FL013  
1500x1000 mm  
ISSA 371523  
IMPA 491327

Signalflag N



FL014  
1500x1000 mm  
ISSA 371524  
IMPA 491328

Signalflag O



FL015  
1500x1000 mm  
ISSA 371525  
IMPA 491329

Signalflag P



FL016  
1500x1000 mm  
ISSA 371526  
IMPA 491330

Signalflag Q



FL017  
1500x1000 mm  
ISSA 371527  
IMPA 491331

Signalflag R



FL018  
1500x1000 mm  
ISSA 371528  
IMPA 491332

Signalflag S



FL019  
1500x1000 mm  
ISSA 371529  
IMPA 491333

Signalflag T



FL020  
1500x1000 mm  
ISSA 371530  
IMPA 491334

Signalflag U



FL021  
1500x1000 mm  
ISSA 371531  
IMPA 491335

Signalflag V



FL022  
1500x1000 mm  
ISSA 371532  
IMPA 491336

Signalflag W



FL023  
1500x1000 mm  
ISSA 371533  
IMPA 491337

Signalflag X



FL024  
1500x1000 mm  
ISSA 371534  
IMPA 491338

Signalflag Y



FL025  
1500x1000 mm  
ISSA 371535  
IMPA 491339

Signalflag Z



FL026  
1500x1000 mm  
ISSA 371536  
IMPA 491340

### GENERAL INFORMATION

**WE HAVE ALL COUNTRY FLAGS ON STOCK!**



## MOUNTING MATERIALS AND PANELS

T-ISS offers a wide range of tools for fixation of signs, particularly suitable for the outdoor exposure at sea or in the heavy industry.

### FOAM MOUNTING TAPE

The tape is a closed-cell, polyethylene foam, coated with a high tack / high shear acrylic adhesive. It has superior chemical and fuel resistance, and good outdoor weather resistance. Technical data can be found on page 54.



Article number	Dimensions
FMT10-020	20 mm x 10 m
FMT10-040	40 mm x 10 m
FMT10-050	50 mm x 10 m
FMT50-150	150 mm x 50 m

### SECURITY LEVEL SIGN HOLDER

Transparent sign holder in which the signs can be easily changed to inform about the current security level.



Article number	Dimension
SH-WB3	310 x 155 mm

### MOUNTING SEALANT AND ADHESIVE

A high viscosity construction sealant and adhesive, one component, fast drying, elastic, humidity curing on MS Polymer basis.

- Primerless adhesion to many surfaces
- High initial and end tack
- Fast drying
- UV stable
- Work temperature; min. +5 °C, max. +35 °C
- Temperature resistance; from – 40 °C up to 100 °C



Article number	Content
MSA-ST780	250 ml

### SET RAILINGBRACKETS STAINLESS STEEL

Pair of brackets for easy fixation signs between railing tubes without welding. Pickled and passivated Stainless Steel (SS316), comes complete with SS hose clamps, bolts, nuts, washes and teflon insulation strips. To combine with different sizes stainless steel backplates. Lay-outs, sizes of brackets and hose clamps are always custom-made per situation and available on request.



### BACKPLATES STAINLESS STEEL

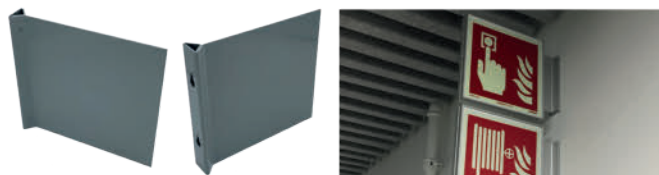
Quality pickled and passivated, also for use in salt water circumstances. To combine with Stainless Steel railingbrackets. Lay-out and size available on request.



## MOUNTING MATERIALS AND PANELS

### MOUNTING PANEL RIGHT ANGLED

Coated aluminium mounting panel without safety signs. To be used in corridors for a clear view at safety signs from both directions.



Article number	Dimension
MPRA-HH	200 x 200 mm
MPRA-HJ	200 x 267 mm

### MOUNTING BOX TRIANGLE

For installation on 2" pipe. Box without safety signs. To be used in open space for a clear view at safety signs from all directions.



Article number	Dimension
MBTA-HH	200 x 200 mm
MBTA-HJ	200 x 267 mm

### MOUNTING PANEL STAINLESS STEEL

Stainless Steel mounting panel with welded-on brackets for fixation on railing tubes with SS hose clamps.



Article number	Dimension (w x h)
MPBS-GG	150 x 150 mm
MPBS-KG	300 x 150 mm
MPBS-HH	200 x 200 mm

### MOUNTING PANEL PANORAMIC

Stainless Steel or coated aluminium panel without safety signs. To be used at longer bulkheads for a clear view at the safety signs from all directions.



Article number	Dimension (w x h)
MPPA-HH	200 x 200 mm (coated aluminium)
MPPA-HJ	200 x 267 mm (coated aluminium)
MPPS-HH	200 x 200 mm (Stainless Steel)
MPPS-HJ	200 x 267 mm (Stainless Steel)

### DOUBLE FOLDED EDGE PANEL

Coated Aluminium Double Folded Edge (DFE) panel without safety sign. To be used for pole mounting with brackets. Lay-out and size available on request.



### MOUNTING PANEL CEILING

Aluminium without safety sign, for use inside accommodation on the ceiling. Can be used single- and double sided.



Article number	Dimension (w x h)
MPRE-KE	300 x 100 mm
MPRE-KG	300 x 150 mm
MPRE-MG	450 x 150 mm
MPRE-HH	200 x 200 mm
MPRE-HJ	200 x 267 mm
MPRE-XX	Other sizes on request



# PIPE MARKING



## INTRODUCTION

Marking pipes on ships, offshore or onshore sites is essential to ensure safety at all times. Accidents, injuries and damage to machines and equipment can be caused by the fact your crew, operators or external maintenance engineers and intervention services are unaware of the risks of the substances that flow through pipes. The importance of marking pipes becomes clear when we look at the different standards & regulations.

### Standards & regulations

Several regional or maritime organisations require compliance with pipe marking standards. Whether it is ISO 14726, ISO 20560, ANSI, ASME A13.1, BSI 1710, DIN 2403, NORSOK or other company standards, T-ISS can supply the correct and compliant pipemarkers in any color with any print that meet these standards.

Because of this variety in global or regional standards, the new published ISO 20560 standard will realize a truly global, harmonized system of hazard recognition for pipemarking systems with uniformity of graphics, color-coding and formatting of safety messages. T-ISS can supply you with pipe markers meet the requirements of this new ISO 20560 standard.

## PIPE MARKING REQUIREMENTS

The color, the color pattern, the size, the width, the content description, the letter size, the flow direction and the safety symbols differ from one standard to another. Our markers, regardless of the sector in which they are to be used, always comply with the latest applicable standards and requirements regarding legislation and regulations.

### Where to apply pipe markings?

- At least one in every room for every pipe and every medium
- At frequent intervals on straight pipe runs, between 3 and 5 meter
- When pipes pass through the floor, ceiling or wall, mark both sides
- When pipes change direction
- In the proximity of each valve and pump

For particular surfaces or if the pipes have a too large diameter, it is also possible to provide individual pipe markers. This marker contains all the necessary information in accordance with legislation and regulations, such as color coding, medium name, safety symbols and possibly the direction of flow. These also differ per standard.

### Layout & Design

Within our production process we can make several different layouts of pipe marking. These layouts always include the mandatory (in most national norms & regulations) safety information:

- Flow direction
- GHS/CLP symbols and warning signs
- Pipe contents description

It has recently also become common to include process information, secondary language and more detailed information about the hazard symbols and even QR codes.

### Customized Pipe Marking

Our fully customizable pipemarkers can include all the pipe, contents and flow information your location (both maritime, offshore or industry & chemical sectors) needs to optimally increase workplace safety and efficiency. We will produce all pipe markers using the colors according to the latest global or local regulations and your specific demands. We can supply customized pipe markers with an Self-Adhesive layer, or Non-Adhesive.



Pipe Marking according ISO 20560-1



Customized Pipe Marking



## PIPE MARKING QUALITY LEVELS

We supply pipe markers for any location (maritime, offshore or onshore) in the world. Our standard maritime program has 3 quality levels and can be fully customised to include any pipe, contents and flow information your location or customer needs.

### Single Color Pipe Marking

Single color pipe marking tape is a tape which needs to be combined with the correct color coding. Additionally, a flow direction tape can be added to the combination to enhance identification.



### Vinyl Unlaminated Pipe Marking (Economy Line)

This pipe marking tape is an economic, unlaminated vinyl. The recommended use of this tape is indoors such as a ship's engine room and can be used outdoors with a short lifespan compared to PolyesPro® and the Basic Line.



### Vinyl Laminated Pipe Marking (Basic Line)

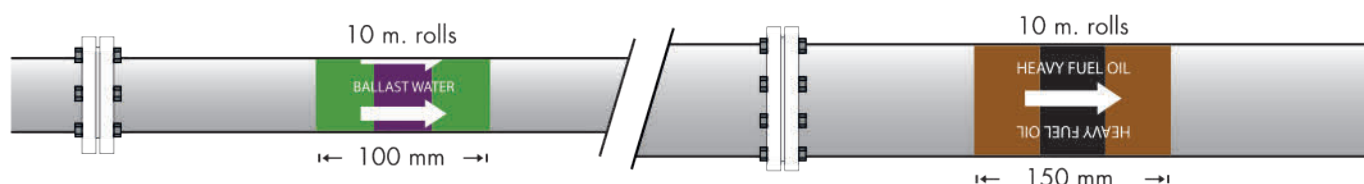
This pipe marking tape is a standard performance vinyl sandwich manufactured according to 3M™ MCS™ (Matched Component System™) production specifications. This tape comes with a gloss laminated finish and can be used outdoor and indoor in various types of environments.



See for the highend industrial solution page 166 "PolesPro®"

## ELEMENTS OF PIPE MARKING DESIGN









Our multi-color pipe marking comes standard with medium text and flow direction and is available in two sizes (100 and 150 mm wide). The pipe marking tape can also be supplied without text and flow direction upon request.


















## SINGLE COLOR PIPE MARKING

COLOR	DESCRIPTION	ARTIKLE NUMBER	COLOR	DESCRIPTION	ARTIKLE NUMBER
	Waste media	PMT050BK		Oil other than fuel	PMT050OG
	Fresh water	PMT050BU		Steam	PMT050BSR
	Fuel	PMT050BN		Fire fighting	PMT050RD
	Sea water	PMT050GN		Air in vent. systems	PMT050WH
	Non-flammable gases	PMT050GY		Flammable gases	PMT050YE
	Masses (dry and wet)	PMT050MN		Acids and alkalis	PMT050VT
↑↑↑↑↑↑↑↑	Flow direction	PMT050BK			

## MARITIME PIPE MARKING COLOR CODING According ISO 14726

	WASTE MEDIA	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Black water	PM2BKBU_PBZA	PM2BKBU_PBZB	PM2BKBU_PEZA	PM2BKBU_PEZB
	Waste oil	PM2BKBN_PBZA	PM2BKBN_PBZB	PM2BKBN_PEZA	PM2BKBN_PEZB
	Bilge Water	PM2BKGN_PBZA	PM2BKGN_PBZB	PM2BKGN_PEZA	PM2BKGN_PEZB
	Exhaust gas	PM2BKGY_PBZA	PM2BKGY_PBZB	PM2BKGY_PEZA	PM2BKGY_PEZB
	Grey water	PM2BKWH_PBZA	PM2BKWH_PBZB	PM2BKWH_PEZA	PM2BKWH_PEZB
	Sewage contaminated	PM2BKYE_PBZA	PM2BKYE_PBZB	PM2BKYE_PEZA	PM2BKYE_PEZB
	Black water	PM1BKBU_PBZA	PM1BKBU_PBZB	PM1BKBU_PEZA	PM1BKBU_PEZB
	Waste oil	PM1BKBN_PBZA	PM1BKBN_PBZB	PM1BKBN_PEZA	PM1BKBN_PEZB
	Bilge Water	PM1BKGN_PBZA	PM1BKGN_PBZB	PM1BKGN_PEZA	PM1BKGN_PEZB
	Exhaust gas	PM1BKGY_PBZA	PM1BKGY_PBZB	PM1BKGY_PEZA	PM1BKGY_PEZB
	Grey water	PM1BKWH_PBZA	PM1BKWH_PBZB	PM1BKWH_PEZA	PM1BKWH_PEZB
	Sewage contaminated	PM1BKYE_PBZA	PM1BKYE_PBZB	PM1BKYE_PEZA	PM1BKYE_PEZB

	FUEL	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Heavy fuel oil (HFO)	PM2BNBK_PBZA	PM2BNBK_PBZB	PM2BNBK_PEZA	PM2BNBK_PEZB
	Aviation fuel	PM2BNBU_PBZA	PM2BNBU_PBZB	PM2BNBU_PEZA	PM2BNBU_PEZB
	Biological fuel	PM2BNVT_PBZA	PM2BNVT_PBZB	PM2BNVT_PEZA	PM2BNVT_PEZB
	Gas-turbine fuel	PM2BNWH_PBZA	PM2BNWH_PBZB	PM2BNWH_PEZA	PM2BNWH_PEZB
	Marine diesel oil (MDO)	PM2BNYE_PBZA	PM2BNYE_PBZB	PM2BNYE_PEZA	PM2BNYE_PEZB
	Heavy fuel oil (HFO)	PM1BNBK_PBZA	PM1BNBK_PBZB	PM1BNBK_PEZA	PM1BNBK_PEZB
	Aviation fuel	PM1BNBU_PBZA	PM1BNBU_PBZB	PM1BNBU_PEZA	PM1BNBU_PEZB
	Biological fuel	PM1BNVT_PBZA	PM1BNVT_PBZB	PM1BNVT_PEZA	PM1BNVT_PEZB
	Gas-turbine fuel	PM1BNWH_PBZA	PM1BNWH_PBZB	PM1BNWH_PEZA	PM1BNWH_PEZB
	Marine diesel oil (MDO)	PM1BNYE_PBZA	PM1BNYE_PBZB	PM1BNYE_PEZA	PM1BNYE_PEZB







	NON-FLAMMABLE GASSES	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Oxygen	PM2GYBU_PBZA	PM2GYBU_PBZB	PM2GYBU_PEZA	PM2GYBU_PEZB
	Inert gas	PM2GYBN_PBZA	PM2GYBN_PBZB	PM2GYBN_PEZA	PM2GYBN_PEZB
	Nitrogen	PM2GYGN_PBZA	PM2GYGN_PBZB	PM2GYGN_PEZA	PM2GYGN_PEZB
	Refrigerant	PM2GYMN_PBZA	PM2GYMN_PBZB	PM2GYMN_PEZA	PM2GYMN_PEZB
	Compressed air (LP) Low Pressure	PM2GYOG_PBZA	PM2GYOG_PBZB	PM2GYOG_PEZA	PM2GYOG_PEZB
	Compressed air (HP) High Pressure	PM2GYRD_PBZA	PM2GYRD_PBZB	PM2GYRD_PEZA	PM2GYRD_PEZB
	Control air / regulating air	PM2GYVT_PBZA	PM2GYVT_PBZB	PM2GYVT_PEZA	PM2GYVT_PEZB
	Breathing air (used in submarines)	PM2GYWH_PBZA	PM2GYWH_PBZB	PM2GYWH_PEZA	PM2GYWH_PEZB
	Breathing gas (used in submarines)	PM2GYYE_PBZA	PM2GYYE_PBZB	PM2GYYE_PEZA	PM2GYYE_PEZB
	Oxygen	PM1GYBU_PBZA	PM1GYBU_PBZB	PM1GYBU_PEZA	PM1GYBU_PEZB
	Inert gas	PM1GYBN_PBZA	PM1GYBN_PBZB	PM1GYBN_PEZA	PM1GYBN_PEZB
	Nitrogen	PM1GYGN_PBZA	PM1GYGN_PBZB	PM1GYGN_PEZA	PM1GYGN_PEZB
	Refrigerant	PM1GYMN_PBZA	PM1GYMN_PBZB	PM1GYMN_PEZA	PM1GYMN_PEZB
	Compressed air (LP) Low Pressure	PM1GYOG_PBZA	PM1GYOG_PBZB	PM1GYOG_PEZA	PM1GYOG_PEZB
	Compressed air (HP) High Pressure	PM1GYRD_PBZA	PM1GYRD_PBZB	PM1GYRD_PEZA	PM1GYRD_PEZB
	Control air / regulating air	PM1GYVT_PBZA	PM1GYVT_PBZB	PM1GYVT_PEZA	PM1GYVT_PEZB
	Breathing air (used in submarines)	PM1GYWH_PBZA	PM1GYWH_PBZB	PM1GYWH_PEZA	PM1GYWH_PEZB
	Breathing gas (used in submarines)	PM1GYYE_PBZA	PM1GYYE_PBZB	PM1GYYE_PEZA	PM1GYYE_PEZB















	FRESH WATER	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Fresh water, sanitary	PM2BUBN_PBZA	PM2BUBN_PBZB	PM2BUBN_PEZA	PM2BUBN_PEZB
	Potable water	PM2BUGN_PBZA	PM2BUGN_PBZB	PM2BUGN_PEZA	PM2BUGN_PEZB
	Distillate	PM2BUGY_PBZA	PM2BUGY_PBZB	PM2BUGY_PEZA	PM2BUGY_PEZB
	Gas-turbine wash water	PM2BUOG_PBZA	PM2BUOG_PBZB	PM2BUOG_PEZA	PM2BUOG_PEZB
	Feed water	PM2BUSR_PBZA	PM2BUSR_PBZB	PM2BUSR_PEZA	PM2BUSR_PEZB
	Cooling fresh water	PM2BUVT_PBZA	PM2BUVT_PBZB	PM2BUVT_PEZA	PM2BUVT_PEZB
	Chilled water	PM2BUWH_PBZA	PM2BUWH_PBZB	PM2BUWH_PEZA	PM2BUWH_PEZB
	Condensate	PM2BUYE_PBZA	PM2BUYE_PBZB	PM2BUYE_PEZA	PM2BUYE_PEZB
	Fresh water, sanitary	PM1BUBN_PBZA	PM1BUBN_PBZB	PM1BUBN_PEZA	PM1BUBN_PEZB
	Potable water	PM1BUGN_PBZA	PM1BUGN_PBZB	PM1BUGN_PEZA	PM1BUGN_PEZB
	Distillate	PM1BUGY_PBZA	PM1BUGY_PBZB	PM1BUGY_PEZA	PM1BUGY_PEZB
	Gas-turbine wash water	PM1BUOG_PBZA	PM1BUOG_PBZB	PM1BUOG_PEZA	PM1BUOG_PEZB
	Feed water	PM1BUSR_PBZA	PM1BUSR_PBZB	PM1BUSR_PEZA	PM1BUSR_PEZB
	Cooling fresh water	PM1BUVT_PBZA	PM1BUVT_PBZB	PM1BUVT_PEZA	PM1BUVT_PEZB
	Chilled water	PM1BUWH_PBZA	PM1BUWH_PBZB	PM1BUWH_PEZA	PM1BUWH_PEZB
	Condensate	PM1BUYE_PBZA	PM1BUYE_PBZB	PM1BUYE_PEZA	PM1BUYE_PEZB

	SEA WATER	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Decontamination water	PM2GNBU_PBZA	PM2GNBU_PBZB	PM2GNBU_PEZA	PM2GNBU_PEZB
	Sea water, sanitary	PM2GNBN_PBZA	PM2GNBN_PBZB	PM2GNBN_PEZA	PM2GNBN_PEZB
	Ballast water	PM2GNVT_PBZA	PM2GNVT_PBZB	PM2GNVT_PEZA	PM2GNVT_PEZB
	Cooling sea water	PM2GNYE_PBZA	PM2GNYE_PBZB	PM2GNYE_PEZA	PM2GNYE_PEZB
	Decontamination water	PM1GNBU_PBZA	PM1GNBU_PBZB	PM1GNBU_PEZA	PM1GNBU_PEZB
	Sea water, sanitary	PM1GNBN_PBZA	PM1GNBN_PBZB	PM1GNBN_PEZA	PM1GNBN_PEZB
	Ballast water	PM1GNVT_PBZA	PM1GNVT_PBZB	PM1GNVT_PEZA	PM1GNVT_PEZB
	Cooling sea water	PM1GNYE_PBZA	PM1GNYE_PBZB	PM1GNYE_PEZA	PM1GNYE_PEZB

	OILS OTHER THAN FUEL	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Thermal fluid	PM2OGBU_PBZA	PM2OGBU_PBZB	PM2OGBU_PEZA	PM2OGBU_PEZB
	Lubrication oil for gas turbines	PM2OGGN_PBZA	PM2OGGN_PBZB	PM2OGGN_PEZA	PM2OGGN_PEZB
	Hydraulic fluid	PM2OGGY_PBZA	PM2OGGY_PBZB	PM2OGGY_PEZA	PM2OGGY_PEZB
	Lubrication oil for steam turbines	PM2OGSR_PBZA	PM2OGSR_PBZB	PM2OGSR_PEZA	PM2OGSR_PEZB
	Lubrication oil for gears	PM2OGVT_PBZA	PM2OGVT_PBZB	PM2OGVT_PEZA	PM2OGVT_PEZB
	Lubr. oil for internal combustion engines	PM2OGYE_PBZA	PM2OGYE_PBZB	PM2OGYE_PEZA	PM2OGYE_PEZB
	Thermal fluid	PM1OGBU_PBZA	PM1OGBU_PBZB	PM1OGBU_PEZA	PM1OGBU_PEZB
	Lubrication oil for gas turbines	PM1OGGN_PBZA	PM1OGGN_PBZB	PM1OGGN_PEZA	PM1OGGN_PEZB
	Hydraulic fluid	PM1OGGY_PBZA	PM1OGGY_PBZB	PM1OGGY_PEZA	PM1OGGY_PEZB
	Lubrication oil for steam turbines	PM1OGSR_PBZA	PM1OGSR_PBZB	PM1OGSR_PEZA	PM1OGSR_PEZB
	Lubrication oil for gears	PM1OGVT_PBZA	PM1OGVT_PBZB	PM1OGVT_PEZA	PM1OGVT_PEZB
	Lubr. oil for internal combustion engines	PM1OGYE_PBZA	PM1OGYE_PBZB	PM1OGYE_PEZA	PM1OGYE_PEZB

	FLAMMABLE GASES	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Hydrogen	PM2YEBU_PBZA	PM2YEBU_PBZB	PM2YEBU_PEZA	PM2YEBU_PEZB
	Acetylene	PM2YEGY_PBZA	PM2YEGY_PBZB	PM2YEGY_PEZA	PM2YEGY_PEZB
	Liquid gas	PM2YEVT_PBZA	PM2YEVT_PBZB	PM2YEVT_PEZA	PM2YEVT_PEZB
	Hydrogen	PM1YEBU_PBZA	PM1YEBU_PBZB	PM1YEBU_PEZA	PM1YEBU_PEZB
	Acetylene	PM1YEGY_PBZA	PM1YEGY_PBZB	PM1YEGY_PEZA	PM1YEGY_PEZB
	Liquid gas	PM1YEVT_PBZA	PM1YEVT_PBZB	PM1YEVT_PEZA	PM1YEVT_PEZB



	FIRE-FIGHTING/FIRE PROTECTION	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Fire-fighting water	PM2RDGN_PBZA	PM2RDGN_PBZB	PM2RDGN_PEZA	PM2RDGN_PEZB
	Fire-fighting gas	PM2RDGY_PBZA	PM2RDGY_PBZB	PM2RDGY_PEZA	PM2RDGY_PEZB
	Sprinkler water	PM2RDOG_PBZA	PM2RDOG_PBZB	PM2RDOG_PEZA	PM2RDOG_PEZB
	Spray water	PM2RDVT_PBZA	PM2RDVT_PBZB	PM2RDVT_PEZA	PM2RDVT_PEZB
	Fire-fighting powder	PM2RDWH_PBZA	PM2RDWH_PBZB	PM2RDWH_PEZA	PM2RDWH_PEZB
	Fire-fighting foam	PM2RDYE_PBZA	PM2RDYE_PBZB	PM2RDYE_PEZA	PM2RDYE_PEZB
	Fire-fighting water	PM1RDGN_PBZA	PM1RDGN_PBZB	PM1RDGN_PEZA	PM1RDGN_PEZB
	Fire-fighting gas	PM1RDGY_PBZA	PM1RDGY_PBZB	PM1RDGY_PEZA	PM1RDGY_PEZB
	Sprinkler water	PM1RDOG_PBZA	PM1RDOG_PBZB	PM1RDOG_PEZA	PM1RDOG_PEZB
	Spray water	PM1RDVT_PBZA	PM1RDVT_PBZB	PM1RDVT_PEZA	PM1RDVT_PEZB
	Fire-fighting powder	PM1RDWH_PBZA	PM1RDWH_PBZB	PM1RDWH_PEZA	PM1RDWH_PEZB
	Fire-fighting foam	PM1RDYE_PBZA	PM1RDYE_PBZB	PM1RDYE_PEZA	PM1RDYE_PEZB

	NON-FLAMMABLE GASSES	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Discharge air	PM2WHBL_PBZA	PM2WHBL_PBZB	PM2WHBL_PEZA	PM2WHBL_PEZB
	Mechanical supply air, cold	PM2WHBU_PBZA	PM2WHBU_PBZB	PM2WHBU_PEZA	PM2WHBU_PEZB
	Natural exhaust air	PM2WHBN_PBZA	PM2WHBN_PBZB	PM2WHBN_PEZA	PM2WHBN_PEZB
	Atmospheric air	PM2WHGN_PBZA	PM2WHGN_PBZB	PM2WHGN_PEZA	PM2WHGN_PEZB
	Mechanical exhaust air	PM2WHGY_PBZA	PM2WHGY_PBZB	PM2WHGY_PEZA	PM2WHGY_PEZB
	Decontaminated supply air	PM2WHMN_PBZA	PM2WHMN_PBZB	PM2WHMN_PEZA	PM2WHMN_PEZB
	Mechanical recirculated air	PM2WHOG_PBZA	PM2WHOG_PBZB	PM2WHOG_PEZA	PM2WHOG_PEZB
	Mechanical supply air warm	PM2WHSR_PBZA	PM2WHSR_PBZB	PM2WHSR_PEZA	PM2WHSR_PEZB
	Smoke clearance	PM2WHRD_PBZA	PM2WHRD_PBZB	PM2WHRD_PEZA	PM2WHRD_PEZB
	Conditioned supply air	PM2WHVT_PBZA	PM2WHVT_PBZB	PM2WHVT_PEZA	PM2WHVT_PEZB
	Natural supply air	PM2WHYE_PBZA	PM2WHYE_PBZB	PM2WHYE_PEZA	PM2WHYE_PEZB
	Discharge air	PM1WHBL_PBZA	PM1WHBL_PBZB	PM1WHBL_PEZA	PM1WHBL_PEZB
	Mechanical supply air, cold	PM1WHBU_PBZA	PM1WHBU_PBZB	PM1WHBU_PEZA	PM1WHBU_PEZB
	Natural exhaust air	PM1WHBN_PBZA	PM1WHBN_PBZB	PM1WHBN_PEZA	PM1WHBN_PEZB
	Atmospheric air	PM1WHGN_PBZA	PM1WHGN_PBZB	PM1WHGN_PEZA	PM1WHGN_PEZB
	Mechanical exhaust air	PM1WHGY_PBZA	PM1WHGY_PBZB	PM1WHGY_PEZA	PM1WHGY_PEZB
	Decontaminated supply air	PM1WHMN_PBZA	PM1WHMN_PBZB	PM1WHMN_PEZA	PM1WHMN_PEZB
	Mechanical recirculated air	PM1WHOG_PBZA	PM1WHOG_PBZB	PM1WHOG_PEZA	PM1WHOG_PEZB
	Mechanical supply air warm	PM1WHSR_PBZA	PM1WHSR_PBZB	PM1WHSR_PEZA	PM1WHSR_PEZB
	Smoke clearance	PM1WHRD_PBZA	PM1WHRD_PBZB	PM1WHRD_PEZA	PM1WHRD_PEZB
	Conditioned supply air	PM1WHVT_PBZA	PM1WHVT_PBZB	PM1WHVT_PEZA	PM1WHVT_PEZB
	Natural supply air	PM1WHYE_PBZA	PM1WHYE_PBZB	PM1WHYE_PEZA	PM1WHYE_PEZB

	STEAM	BASIC 100mm	BASIC 150mm	ECONOMY 100mm	ECONOMY 150mm
	Steam for heating purposes	PM2SRBK_PBZA	PM2SRBK_PBZB	PM2SRBK_PEZA	PM2SRBK_PEZB
	Driving steam	PM2SRGN_PBZA	PM2SRGN_PBZB	PM2SRGN_PEZA	PM2SRBK_PEZB
	Exhaust system	PM2SRWH_PBZA	PM2SRWH_PBZB	PM2SRWH_PEZA	PM2SRWH_PEZB
	Supply steam	PM2SRYE_PBZA	PM2SRYE_PBZB	PM2SRYE_PEZA	PM2SRYE_PEZB
	Steam for heating purposes	PM1SRBK_PBZA	PM1SRBK_PBZB	PM1SRBK_PEZA	PM1SRBK_PEZB
	Driving steam	PM1SRGN_PBZA	PM1SRGN_PBZB	PM1SRGN_PEZA	PM1SRBK_PEZB
	Exhaust system	PM1SRWH_PBZA	PM1SRWH_PBZB	PM1SRWH_PEZA	PM1SRWH_PEZB
	Supply steam	PM1SRYE_PBZA	PM1SRYE_PBZB	PM1SRYE_PEZA	PM1SRYE_PEZB



## POLYESPRO® PIPE MARKING

We are supplier of the specially developed PolyesPro® pipe markings. This product is the highest available quality pipe marking and has a better temperature resistance, therefore a longer service life and improved colourfastness. The tape comes with all the usual 3M™ guarantees. PolyesPro® pipeline markings are made out of two layers; a PVC free polyester base material with the image, finished with a protective laminate. As a result, the material is suitable for insulated pipes, painted pipes and stainless steel pipes.

### Benefits of PolyesPro®:

- UV-resistant
- Scratch-resistant
- Usable in extreme weather condition
- Withstand chemicals
- Strong adhesive
- Greater thickness
- Temperature resistance -40 °C up to +130 °C









# SAFETY SIGNAGE IMPLEMENTATION & CERTIFICATION



## SAFETY SIGNAGE IMPLEMENTATION AND CERTIFICATION

Development and installation of an effective and compliant safety signage system has been our core business for many years. Whether it is on a cruise ship, ferry, oil rig, container ship or tanker, the safety of the crew and passengers is our top priority when implementing such a system.

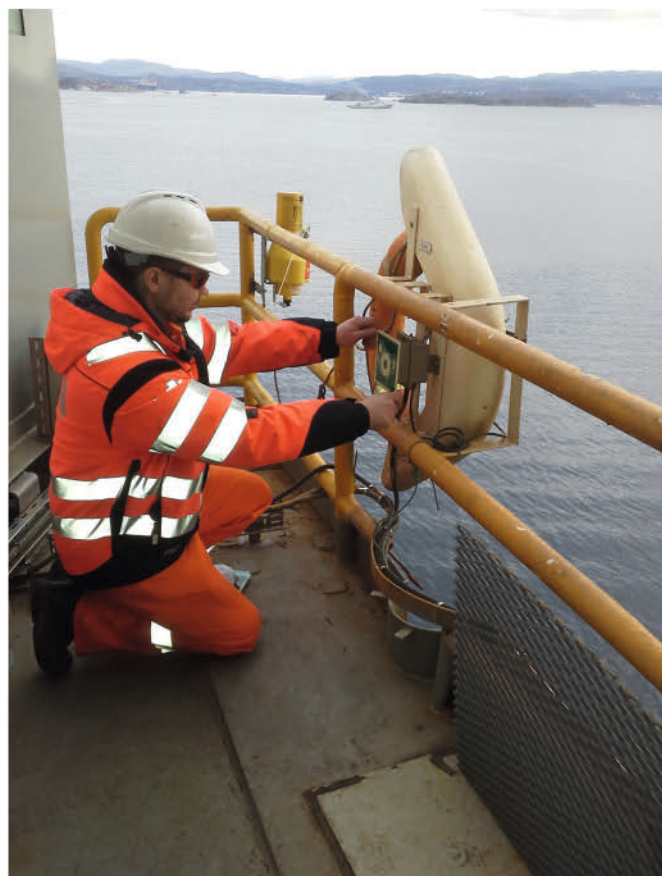
Our safety signage portfolio consists of:

- Escape Route signage (including Low Location Lighting)
- Safety plans / Safety instruction signs
- Fire & Rescue signage
- Fire Control signage
- Warning / Prohibition / Mandatory signs
- Pipe marking
- ISPS signs

In order to implement an effective and compliant safety signage system, we approach each project systematically, based on our main pillar under success: good project management and knowledge of regulations and standards.

### Project management

Our organization and teams have the knowledge and experience to successfully manage complex, time-sensitive safety signage and Low Location Lighting projects



in line with your embarkation- and safety plan and safety procedures. Our time-tested techniques serve as an industry model, and our people represent the best in the safety signage business.

Once the scope, tasks and milestones are determined, a dedicated Project Manager is appointed to lead the project and act as the primary contact throughout the life of the project. Project team members are assembled from engineering, drawing, production and installation departments.

The steps we take to ensure the most optimal project result, are based on years of experience and can be considered a best practice to deliver an effective and efficient safety signage system:

- Site survey
- Budgeting
- Engineering & Design
- Production
- Class approved drawings
- Installation
- Low Location Lighting installation, measurements and class-approval guidance\*
  - Photoluminescent Low Location Lighting
  - Electrical Low Location Lighting
  - As-built signmanual
- Maintenance

\*In case of newbuild ships, we can provide the delivery documentation and certification documents for approval by the classification society.

### Site survey

Most of the times, we progress based on the ship's General Arrangement drawings, fire control & safety plans or embarkation plans\* and no site survey is needed to create a preliminary sign plan.

If a site survey is needed, we evaluate the current status of your existing signage. Evaluation of all or individual on-board signage areas: safety, technical, crew and pax. This survey will be accompanied by a detailed technical illustrative report: a sign plan. With this survey, we can assess and evaluate the current state of the safety signage system related to relevant IMO resolutions and ISO standards, listing all the findings in the sign plan. In our report, we not only look at the technical state of the signage, but we also report on the state of the signage in terms of compliance with regulations and standards that are applicable in your situation.

\*In case your ship or offshore location does not have any fire control & safety plan or embarkation plan, we can develop it for you.





## Budgeting

Based on the customer's requirements, and after a close study of the general arrangement drawings, fire control & safety plans or embarkation plans (and results from the site survey when applicable) it is possible to determine what the scope of the project is. We can now make an estimation of the impact and costs involved to implement an effective safety signage system or escape route signage system. Such a system ideally consists of 5 elements that together form the system:

- Low Location Lighting, including signs
  - Photoluminescent Low Location Lighting
  - Electrical Low Location Lighting
- High located Escape signage indicating how to reach the assembly stations and embarkation stations
- Electrical escape signs
- Safety Instructions for passengers and crew (in the cabins and public areas)
- Other safety signs installed at eye level for fire fighting, rescue, fire control, damage control, etc. car-deck safety signage for passengers and other safety signage for safe work of crew

Our way of engineering will always try to avoid an 'overload' of signs, as such an overload of signs does not improve the feeling of safety onboard a ship.

## Engineering & Design

Our engineering services include various activities in order to produce a signplan. Based on the available general arrangement drawings and/or results from a site survey we create a signplan, which is developed in accordance with current regulations and standards. In the end, the sign plan provides a clear overview

of any present and required safety signage onboard your ship according to regulations and standards. This allows you to be in control of the safety signage on your ship or offshore location. A sign plan opens the opportunity to partake in the design process before the safety signage becomes permanent. This workflow guarantees a uniform appearance and an efficient and practical implementation of all safety signage.

Years of experience in compiling safety sign systems allows us to survey and map even the most complex locations and installations with competency and efficiency.

Our design services will make sure to follow any branding guidelines when designing the non-standard signage elements (signage that has your logo on it) on your ship or offshore location.

## Production

In our own certified SafeSign production facilities, with modern equipment and the manpower we execute production for your largest projects. All standard signs we have on stock for flexible and fast service.

Staffed by highly skilled talent, we have two state-of-the-art manufacturing locations in the Netherlands. We are experts at maximizing efficiency, and have the flexibility to adapt our production processes to match the demands and specifications of your program.

As part of our rigorous quality control measures, all products are inspected at our facilities. Since the majority of our products are constructed in-house, we can assure product quality, no matter the design, or how

many signs you require. Because of our focus on long life quality signage products, you can be assured of a lower Total Cost of Ownership of our signage vs. low cost, low quality signage that is available on the market today. When we deliver a safety signage project to you, you can be sure to be maintenance-free for the foreseeable future. T-ISS is an ISO 9001 Certified company, as certified by DNV. DNV previously certified many of our products, and now DNV also certified our processes, in accordance with the ISO 9001 international standard.

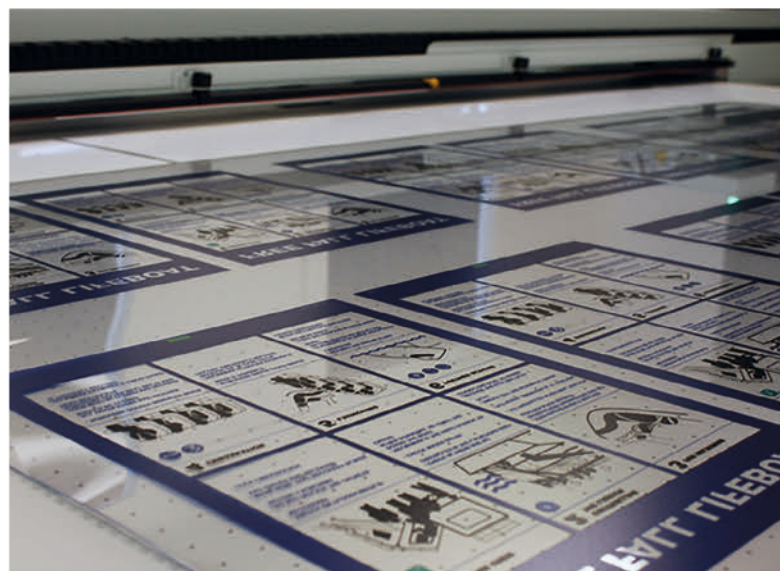
Next to our ISO 9001 certificate that we own for our organization, our safety signage products are certified as well:

- IMO safety signs – DNV
- Low Location Lighting (photoluminescent and electrical) – DNV
- Pipe marking – PolyesPro®, a pipe marking vinyl that was jointly developed with 3M
- SOLAS Retro Reflective tape – DNV

### Installation

In order to implement the sign plan on your ship(s), an experienced installation team is dispatched to a location to complete all required work. Our installation teams have the capability to service you anywhere in the world. Teams arrive at your ship or offshore location equipped with the information gathered from the survey and sign plan, assuring that they have all the required equipment and tools needed to complete the job to your satisfaction. Along with the site-specific information, installation teams are advised of the customers installation expectation that include quality wall

repair, cleanliness of installed products, and maintenance of safe and clean work area. In case of the use of local installation teams, we can provide installation supervision.



### Class approvals

When T-ISS did the complete project we guarantee the approvals for relevant authorities. With our expertise based on years of experience and participation in ISO committees for safety signage we guide our customers through the entire classification process. T-ISS is fully certified to take the LLL measurements, so together with the certified products we fulfill all necessary tasks for certification of the whole safety sign system in compliance with embarkation plan, fire control plan and all relevant regulations and standards.

### Maintenance

After implementation/installation, the sign plan serves as a reference and as a basis for future maintenance of all signage. We understand the importance of regular maintenance and repairs, and offer various maintenance contracts to keep your signage looking at its best. If you have invested in high-quality signage, it makes sound business sense to ensure that it is kept in good condition, to maintain its visual impact and safety.

Maintenance of photoluminescent Low Location Lighting is to be performed every 5 years, by testing all systems. Our engineers are able to test your LLL systems onboard with fully certified test equipment and procedures, as certified by DNV.





# MARITIME INTERIOR DECORATION



## MARITIME INTERIOR DECORATION

What many companies and interior designers do not yet know is that vinyl/foil has a huge range of applications. Vinyl is often still associated with the application for advertising purposes such as lettering or loose stickers. Nowadays, however, the possibilities go much further than that. The possibilities of decoration and renovation of both interior and exterior of vessels and buildings with self-adhesive vinyl are almost endless. Specifically we focus on applications that are used for long term use and immediately provide an added value in terms of decoration or branding.



### Self-adhesive films can be used everywhere

Whereas previously vinyls were mainly used for flat and smooth surfaces such as plates, panels and glass parts, films are now also becoming increasingly suitable for use on more difficult substrates such as weathered aluminum or plastic window frames or façade panels. The possibilities and applications of Self-adhesive films have therefore increased significantly in recent years. Our supplier, partner and film manufacturer 3M™ is one of the main drivers behind this development. With products such as DI-NOCT™, Fasara™ and Envision™, 3M have brought products in recent years that are of very high quality and are sustainable products that are specifically suitable for decoration and renovation applications.

### Colour and imagery reduce stress

Several studies have shown that the use of colour and imagery in the interior of ships, offices and other working environments has a direct influence on the labor productivity in the workplace. With vinyl coverings, complete walls can be decorated with a complete full-colour print in one go. Even so that windows and doors completely "disappear" into the background because doors and window frames can also be decorated with printed film.



## MARITIME INTERIOR DECORATION



### Designing the perfect ship interior using 3M finishes

Designing the perfect ship interior can be a balancing act between creating a warm and welcoming ambiance that feels like home and also imbue an element of surprise that makes your guests feel special. DI-NOCTM vinyl surface finishes include a wide range of innovative patterns and colours that provide many opportunities to decorate or refresh spaces while blending in with the existing decor.

Cruise ships or living quarters on a vessel also aim at making a striking first impression and what better space than the ship's gangways or cabins to make a lasting impression on guests or visitors.

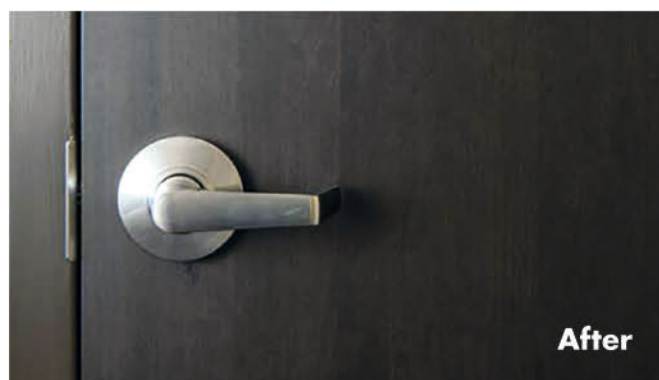
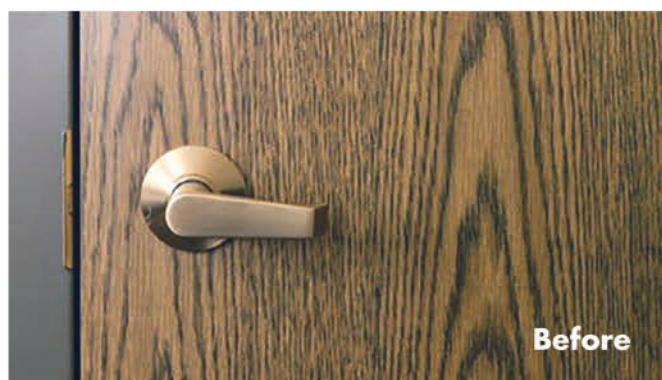
Besides their aesthetic value, these surface finishes are durable, with strong adhesion, allowing your interior to be furnished to the highest possible standard. Existing furnishings can be kept and renewed rather than replaced, meaning you can redesign your ships' general areas or corridors in minimal time and cost, without compromising on quality and style.

### Incorporate the latest trends with Architectural Finishes

With the addition of 153 new patterns that incorporate the latest trends, 3M™ DI-NOCTM Architectural Finishes are now available in more than 800 different designs, enabling almost infinite creativity. Our rich assortment of finishes offers the warmth of wood grain, the texture of traditional Japanese washi paper, abstract designs inspired by nature, and many other interior and exterior design possibilities.

We have years of experience in the design, production and installation of interior decoration and signage and have worked with many interior architects to get the optimal result.

If you are interested in working with us to bring your interior décor plans to life with 3M vinyls, please contact us.







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