

A photograph of a ship's deck at sunset. In the foreground, a red lifebuoy with white reflective stripes is hanging from a white metal railing. To its right, a red cylindrical buoy is also attached to the railing. The deck is made of wooden planks. In the background, the sea is visible under a warm, golden sky. A green square sign with a white lifebuoy icon is mounted on the railing. A blue and red diagonal stripe is visible in the top left corner.

IMO CATALOG

2023 - 2024

T-ISS
Safety Suppliers



INTRODUCTION

Dinxperlo, The Netherlands, September 2022

Dear customers, partners and friends,

You have before you the latest edition of the T-ISS IMO catalog. Where our previous edition had a somewhat shorter lead time, this edition is again fully up-to-date for the next two years.

As we leave the pandemic and subsequent crisis behind us, we also realize that the various maritime and offshore sectors have had difficult years. However, we now look to the future with energy and expectation and see great developments in several areas.

Product development

The past two years have been used by us to develop new products and services that you will find in this catalog. The most striking is our solution for a phenomenon that is unfortunately increasing and can cause a lot of damage: EV car fires on board ferries and car carriers. Our Fire Isolator concept provides a quick solution to prevent additional damage and gain time until the EV can be safely submerged. With a complete concept, including training, we offer ferry operators, car carriers, distributors/dealers and safety suppliers a proven effective concept. Also our newly launched line of LED Escape signs can be considered innovative, as these LED escape signs maintain a clear visibility for over 3 hours even without emergency power.

Safety signage implementation and measurements

It is clear that a consistent and effective safety signage system is more than a collection of signs. We combine years of experience in implementing an effective and compliant safety signage system with a complete range of high-quality signage that ensures a low total cost of ownership. Contact us to have the situation on your ship(s) assessed.

We hope you can find your desired products and services in this new catalog. Be sure to check out our website for the latest news and to download specific documentation: www.t-iss.com

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

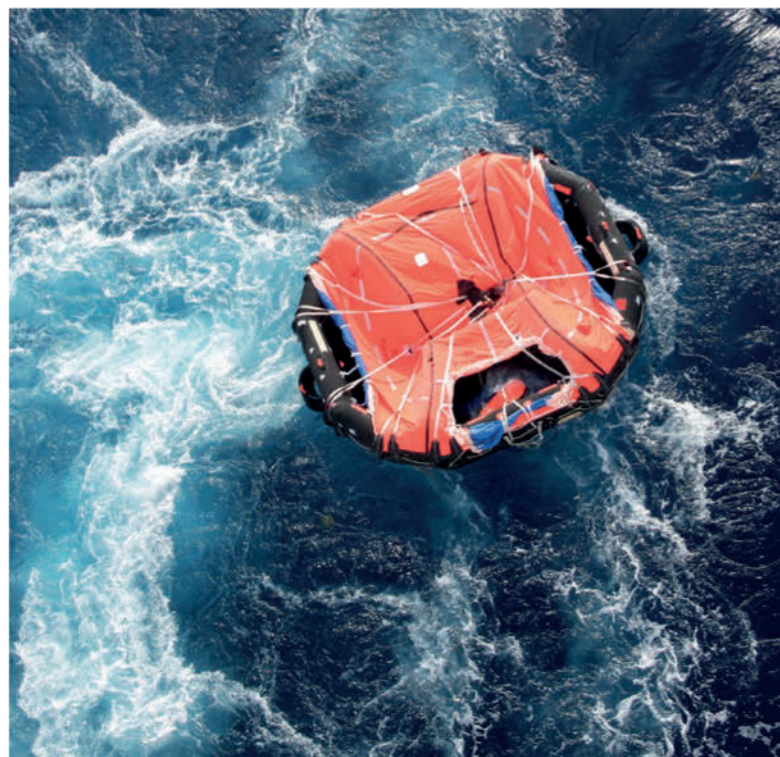
Dimensions: 165 x 75 x 65 mm

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:

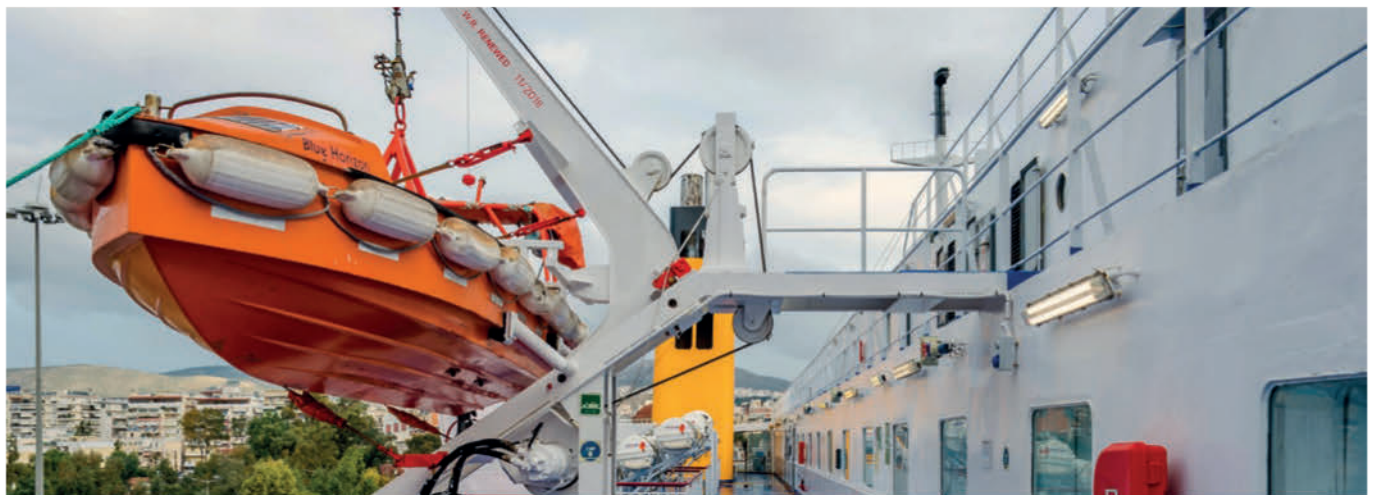
1. Automatic release when the craft enters the water.
2. Manual release when waterborne if auto-release is not possible due to added load on the rescue boat while being towed or when sea conditions are bad.

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
REPL-PX01	Maintenance / Replacement set PX01	-	700 gr

LIFERAFT RELEASE HOOK PX02

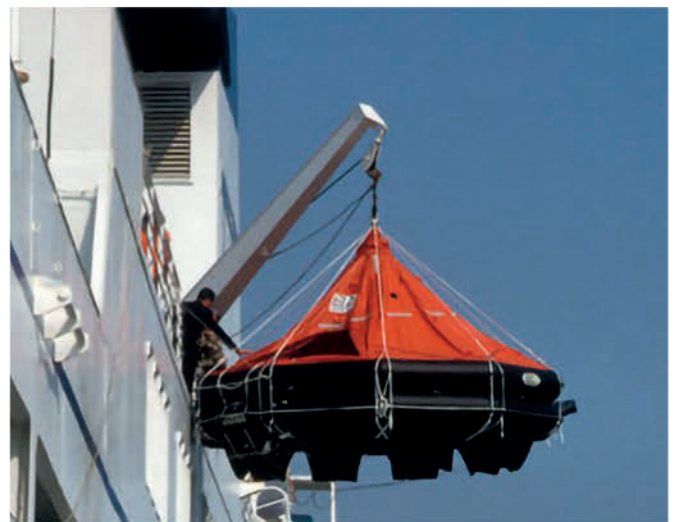


General description

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
REPL-PX02	Maintenance / Replacement set PX02	-	800 gr

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
REPL-PX03	Maintenance / Replacement set PX03	-	600 gr

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:

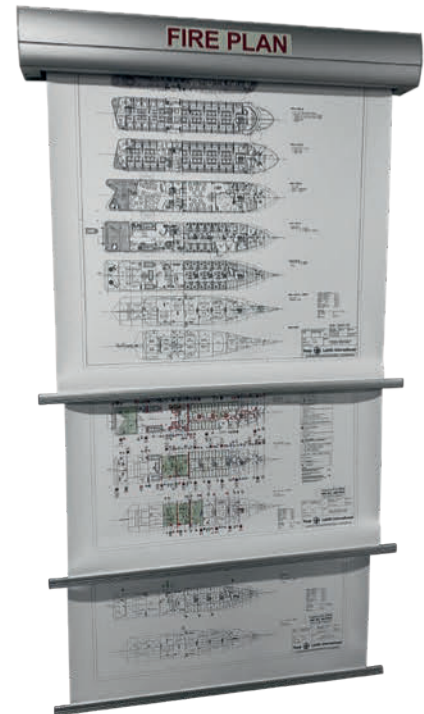
- Where to find the control station on each deck
- Where parts of the ship are enclosed by fire resistant bulkheads
- And the general data of the fire alarm systems

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.

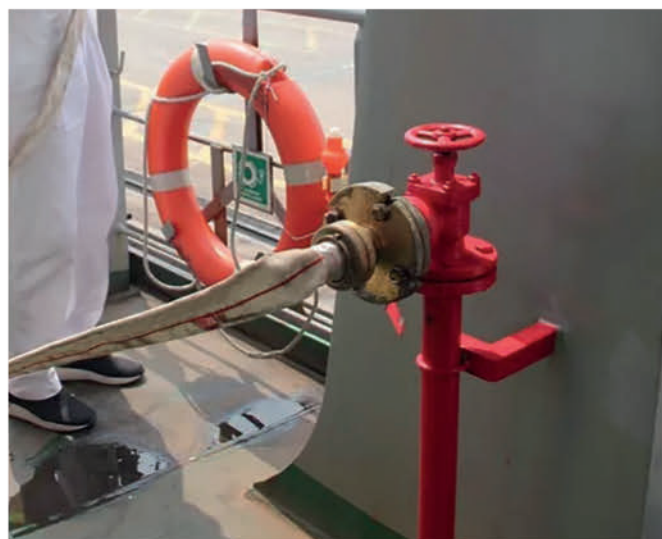
While using the International shore connection, the sea water is supplied at a pre-decided pressure and is connected to the ship's fire main.

Technical Data

- 1.0 N / mm² 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
 CO₂ 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

CO₂ 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
 Operation life: Min. 24 hours
 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



Also available a water-activated LED lifejacket light with Lithium battery (in stead of Alkaline battery) in blue bright color.



Approval

- Wheelmark

Standards

- SOLAS/MED
- USCG

Article number	Description	Dimensions	Weight	IMPA
LJL-WA	Lifejacket light Alkaline	62 x 30 x 22 mm	Approx. 44 gr	330143
LJL-WL	Lifejacket light Lithium	52 x 30 x 31 mm	Approx. 24 gr	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

- Korean Register
- Wheelmark

Standards

- Complies with IMO / SOLAS MSC 81(70)
- Complies with MED Directive 96/98/EC and 2002/75/EC

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

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)
Spreader:	The 4 lower steps of ladder are made of rubber
Side Ropes:	Hardwood (beech wood)
Step Thimbles:	4 Strand Manila rope
Rope clamp:	Hardwood (beech wood)
	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. 4,3 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. 3,2 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.

The contents of the ELS kit:

- Sturdy plastic carrying box
- Rubber hammer
- Utility knife
- Wooden pins (8 pcs)
- Wooden wedges (8 pcs)
- 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



FIRE **ISOLATOR**

EV-CAR FIRE PROTECTION



EV FIRE PROTECTION

ABOUT THE **FIRE ISOLATOR** CONCEPT

In general, there is no single solution to extinguish EV car fires. Most specialists agree that more than one solution should be available on board ferries or in car parks. Once an EV fire occurs on a ship, the shipowner/captain must be able to reach the nearest port as soon as possible to keep damages to an absolute minimum. In case of an EV on fire in a car park, the goal must be to minimize the collateral damage. Specialists with a long track record of fighting E-fires figured out what the best method to fight an EV fire is in order to have minimum damages towards cargo & passengers. The conclusion was that a combination of different methods delivers the best results. With this best practice, the concept of Fire Isolator was born.

The Fire Isolator Concept holds 5 elements that, when used together, deliver the best results when fighting EV-fires on board ferries or in car parks:

1. The use of a High Temperature resistant Fire Blanket
2. The use of aerosol units that interrupt the chemical chain reactions occurring in the flames
3. The use of a Water Mist lance
4. The use of a thermal imaging camera to monitor the temperature of the burning EV
5. Training of the crew in this concept



EV **FIRE/ISOLATOR** PRODUCTS



FIRE/ISOLATOR BLANKET

The Fire Isolator Blanket is the best way to control and isolate car fires for All-Electric Vehicles (EVs) as well as normal cars. The Fire Isolator Fire Blanket will directly assist in containing the flames, smoke and toxic fumes. The blanket is temperature resistant up to 1600°C, and is easy to place over the vehicle because of the coloured loops. This blanket is available in multiple sizes upon request.



FIRE/ISOLATOR AEROSOL UNITS

Our Aerosol Units are lightweight, hand-held units designed to provide portable fire extinguishing. Aerosol Units are perfect for providing control of the situation together with the Fire Isolator blanket, can save valuable time, prevent a flash-over and bring the temperature of the fire down dramatically, to around 200°C.



FIRE/ISOLATOR WATER MIST LANCE

The Fire Isolator Water Mist Lance is your assistant in quickly and efficiently reducing fires in EV vehicles. The Fire Isolator Water Mist Lance can penetrate directly into the battery in an easily accessible location. This method allows water to enter the battery cells directly. The lance only needs to be inserted at a small depth.

Article number	Description	Dimensions	Weight
FI-BL0906	Fire Isolator blanket 0906	9 x 6 m	37 kg
FI-AUCA2	Set of 2 Aerosol units in box	205 x 165 mm	2,1 kg
FI-WMLANCE	Water Mist Lance set	300 x 1350 mm	5,5 kg
FI-BCAM	Thermal camera Bullard		
FI-FAX	Fireman's axe high voltage	900 x 200 x 30 mm	2,6 kg
FI-BOX	Reinforced Plastic Storage Box	1450 x 550 x 450 mm	24,5 kg
FI-KIT	Complete kit: GRP Box, Blanket, case with 2 aerosol units, water mist lance, Axe, Instruction poster	1450 x 550 x 450 mm	72 kg

FIRE ISOLATOR ACCESSOIRES

For the best implementation of the Fire Isolator concept one should use products from the following range of accessories:



FIRE AXE HIGH VOLTAGE

The Fireman's Axe High Voltage is designed and tested according to FSS code. Material: Steel blade and fiber glass handle
Insulation: up to 2kV / 12 kV DC voltage



SAFETY WINDOW HAMMER

Break the Car Window easily with the extremely hard double-head hammer made of high-carbon steel. Also with a seat belt cutter at the bottom of the handle.



GRP (Fiberglass) Reinforced Plastic Storage box

Storage boxes for both onshore and offshore applications which include life-jackets, emergency equipment or tool sets.
Other storage boxes available on request.



COMPLETE **FIRE ISOLATOR** KIT

The complete kit consist of: Fire Isolator Blanket, 2 aerosol units in a case, water mist lance, fire axe, safety window hammer and instruction poster.



FIRE ISOLATOR THERMAL CAMERA

A thermal imaging camera is a type of the thermographic camera used in fire-fighting. By rendering infrared radiation as visible light, these cameras allow firefighters to see areas of heat through smoke, darkness, or heat-permeable barriers. In the context of the Fire Isolator concept, it is important to monitor the temperature under the fire blanket to see if more aerosol units need to be deployed.

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".

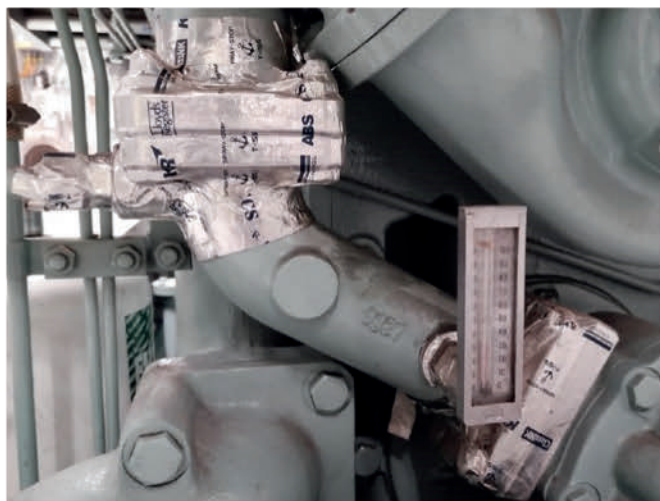


SPRAY STOP ANTI-SPLASHING TAPE



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

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
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

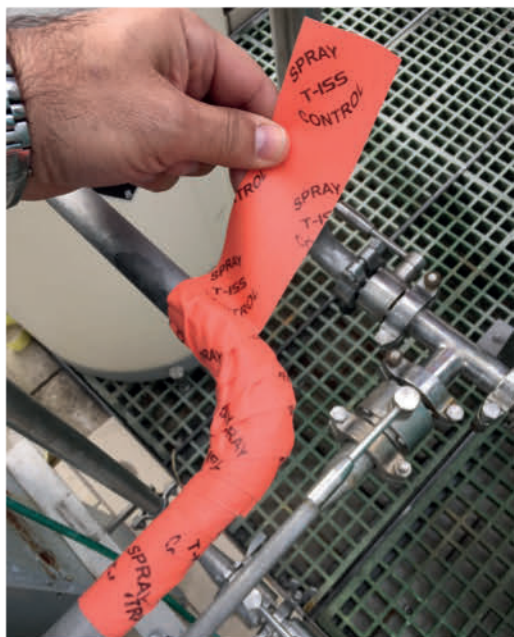
T-ISS Spray Control Tape is used to upgrade the safety in your pipeline systems. The protection tape makes surroundings a lot safer. Spray Control is made to prevent damages towards human, machinery and pipes by applying the tapes on flanges & valves at chemical plants. The pre-leak detection would help 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

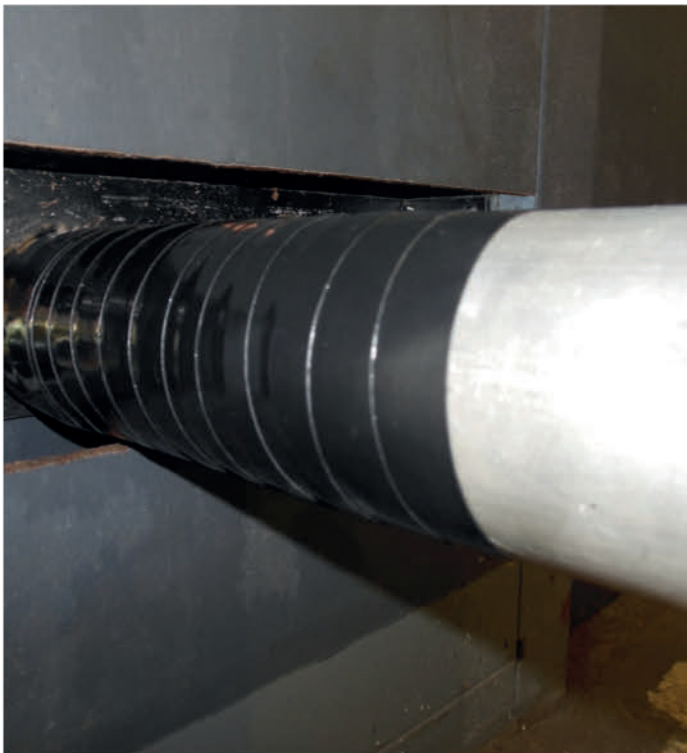
General description

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/cm². 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 ²
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: 150 °C

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.

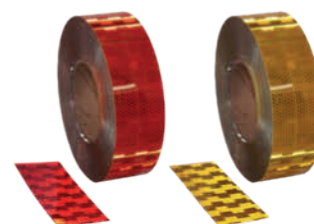
Important warning: reflective tape with a type I approval can only be used on indoor stored lifejackets and life rafts, this is not suitable for lifebuoys, lifeboats and other lifesaving equipment which are exposed to the environment.



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

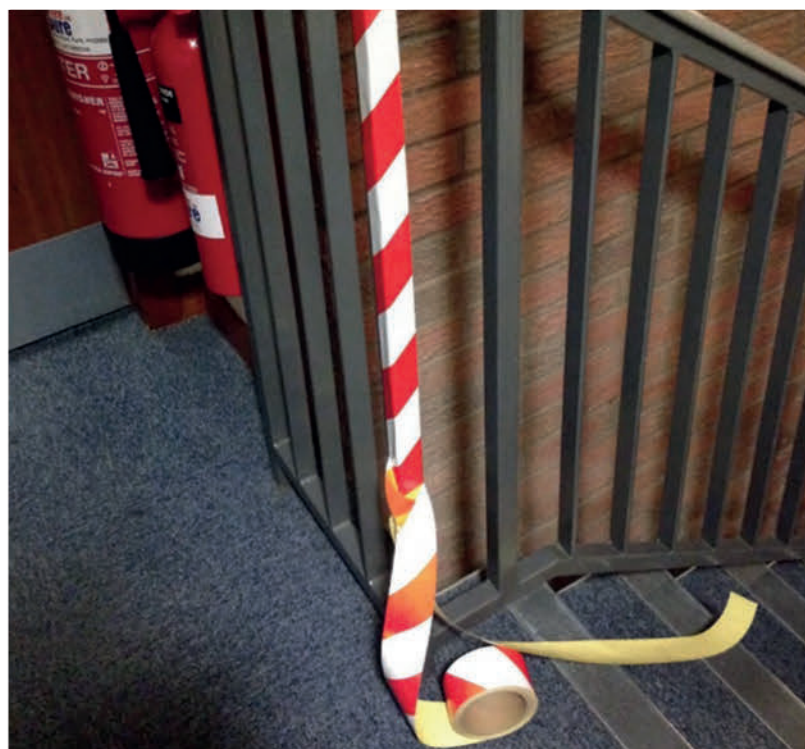
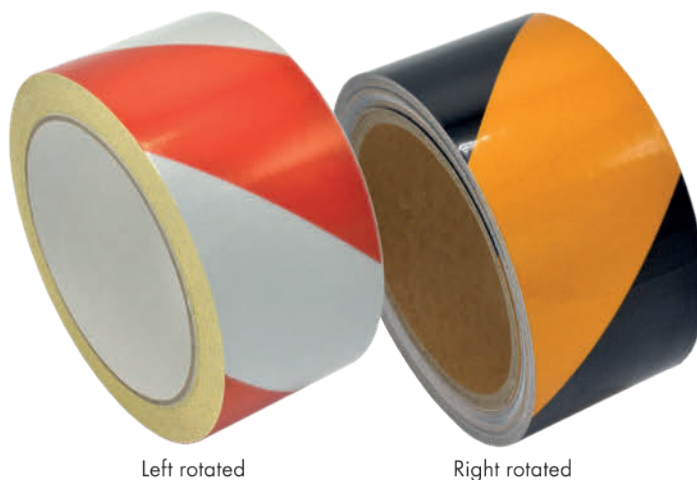
T-ISS Safety Marking Tape Reflective is an engineering grade reflective tape, used to provide safety and protection. Used to highlight hazards, it is over 200 times more reflective than white paint. Suitable for highlighting hazards and danger areas. Gives a 24/7 protection in and on your vessel.

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	-

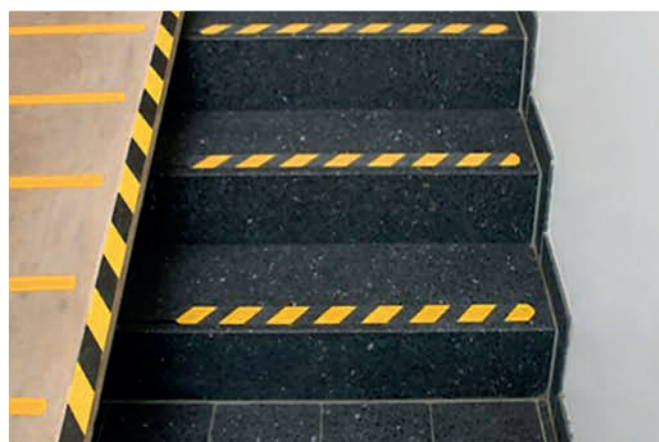
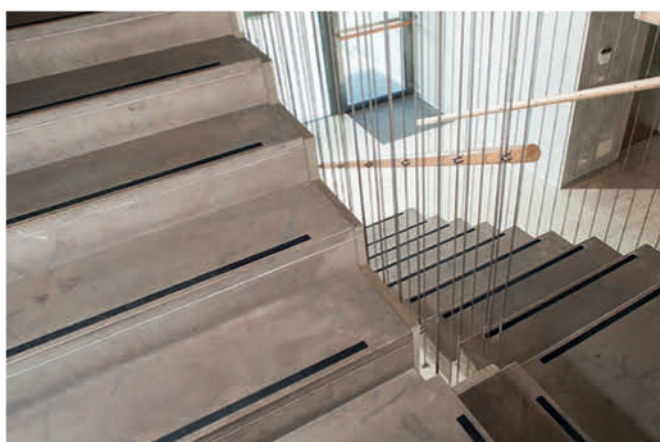
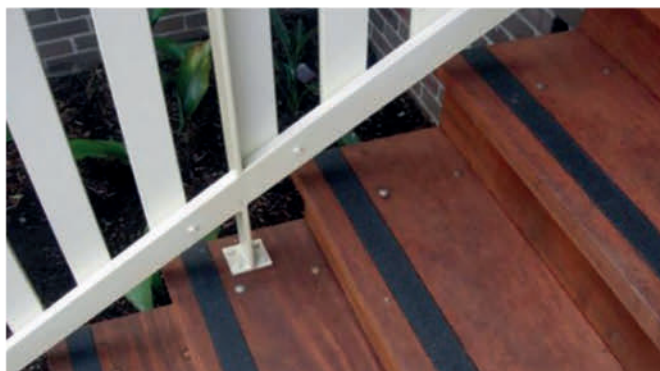
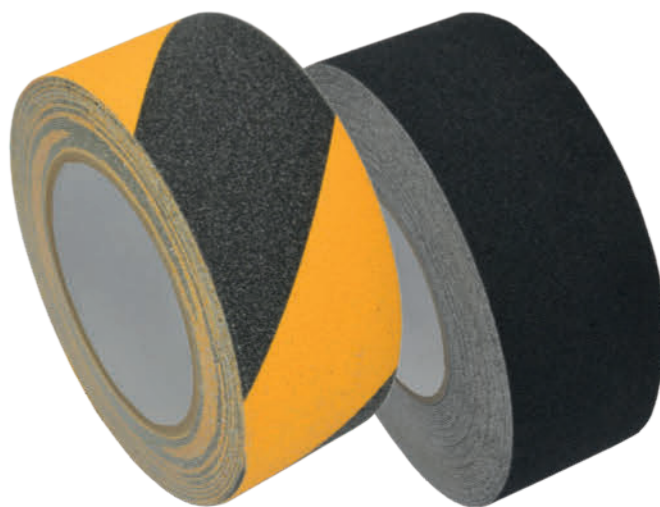
ANTI-SLIP TAPE

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

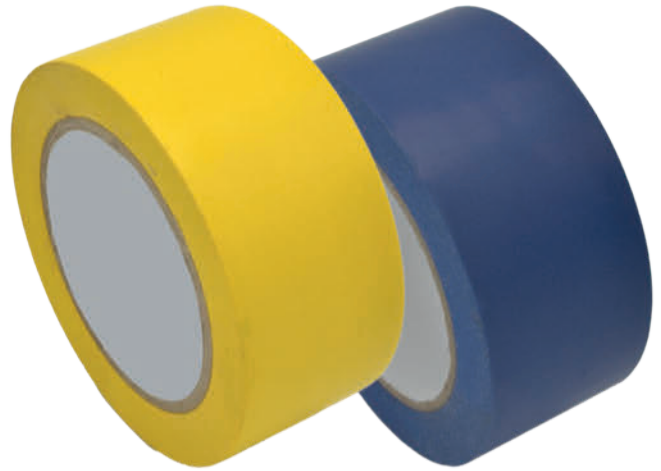
FLOOR MARKING TAPE

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

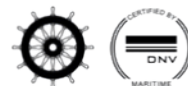
Benefits & Features

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

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.

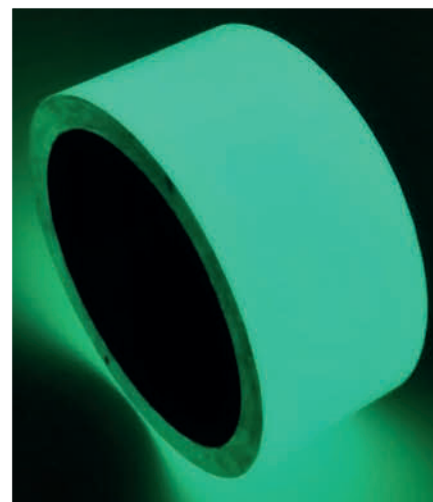
All the photoluminescent tapes complies with the IMO & SOLAS regulations. They have a strong adhesive layer which ensures an extremely good adhesion on many different substrates. The tapes are specially designed for mounting on board of ships and have excellent aging and weather resistant properties. 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 ²)	10 min	60 min
Class XXL	200	30
Class XL	100	10



Approvals

- Wheelmark
- DNV

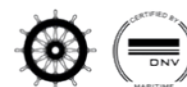
Standards

- 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	-



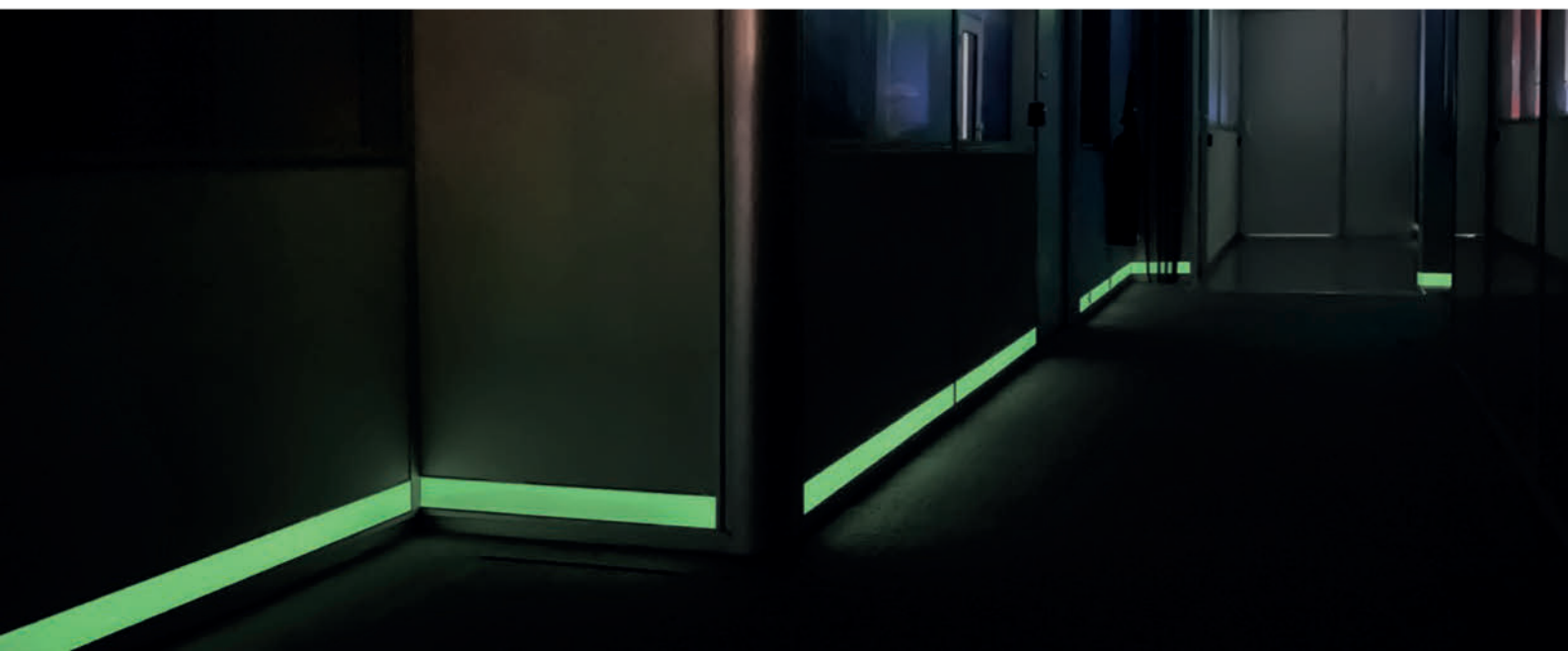
According ISO 15370;
Only dead-end corridors

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.

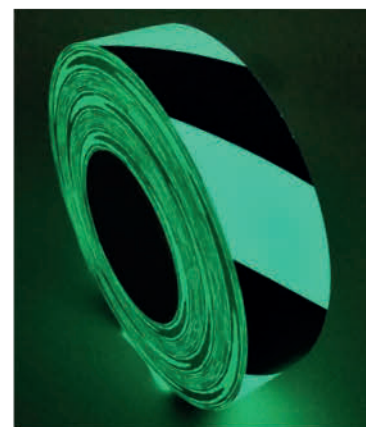
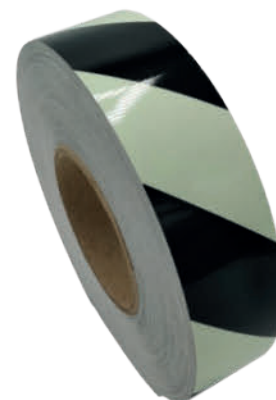
Technical data

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

Luminance intensity (mcd / m ²)	10 min	60 min
Class XXL	200	30
Class L	50	7

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	-
SMTV040AG	Safety Marking Tape PVC green	40 mm x 10 m	L	332034	4752034
SMTV080AG	Safety Marking Tape PVC green	80 mm x 10 m	L	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	-
SMTV040AR	Safety Marking Tape PVC red	40 mm x 10 m	L	332054	4752054
SMTV080AR	Safety Marking Tape PVC red	80 mm x 10 m	L	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	-
SMTV040AB	Safety Marking Tape PVC Black	40 mm x 10 m	L	332044	4752044
SMTV080AB	Safety Marking Tape PVC Black	80 mm x 10 m	L	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

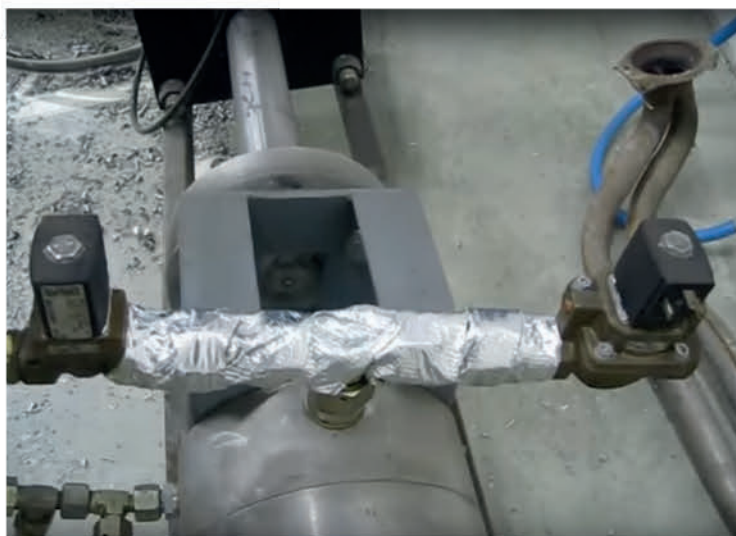
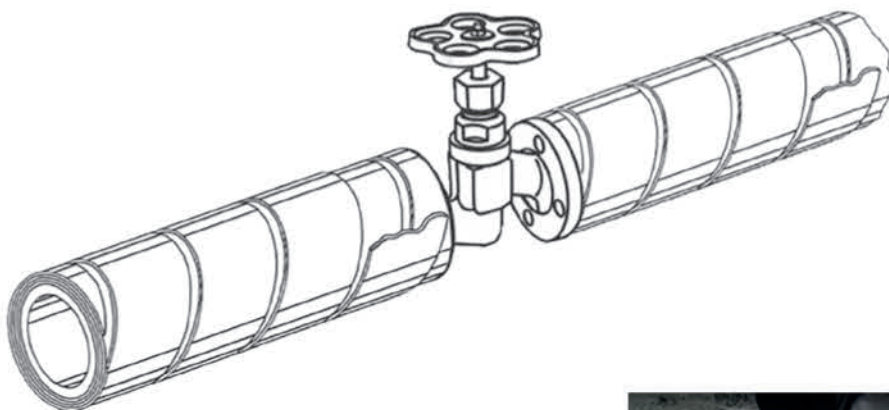
General description

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
- Temperature resistance: 1000 °C



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: 5 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 signage 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 signage 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 signage 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.



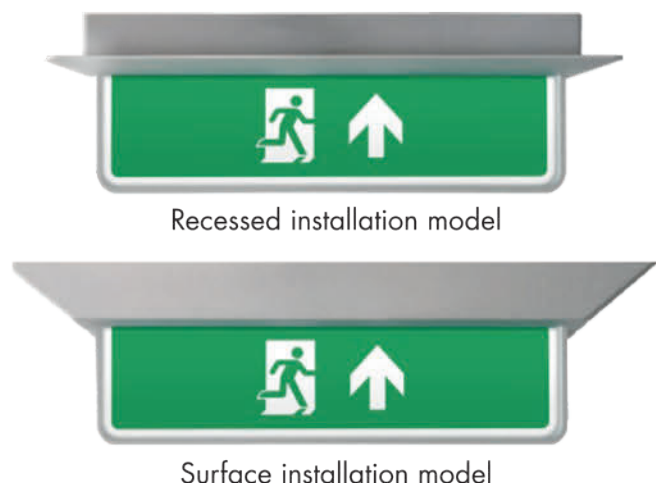
MARITIME SAFESIGN LED ESCAPE SIGN



General description

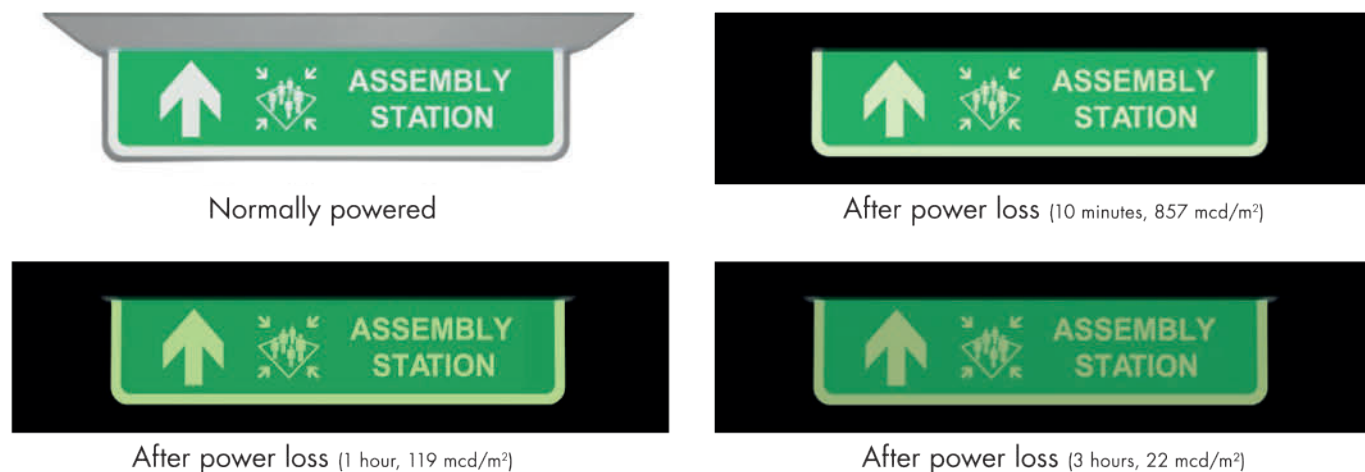
Our 'Dutch Design' premium quality range of LED Escape signs are designed to clearly identify escape routes, executed in a timeless design that fits in with contemporary naval architecture. Our range of LED Escape signs allow for easy installation and provide a reliable and stylish solution for use onboard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



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.



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	Dimensions	Weight
LX070RLS	LED Escape sign recessed installation Insert height 70 mm	LED single sided	430 x 125 x 114 mm	1300 g
LX070RLD		LED double sided	430 x 125 x 114 mm	1200 g
LX070RPS		LED photoluminescent single sided	430 x 125 x 114 mm	1300 g
LX070RPD		LED photoluminescent double sided	430 x 125 x 114 mm	1200 g
LX070SLS	LED Escape sign surface installation Insert height 70 mm	LED single sided	430 x 125 x 114 mm	1500 g
LX070SLD		LED double sided	430 x 125 x 114 mm	1400 g
LX070SPS		LED photoluminescent single sided	430 x 125 x 114 mm	1500 g
LX070SPD		LED photoluminescent double sided	430 x 125 x 114 mm	1400 g

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

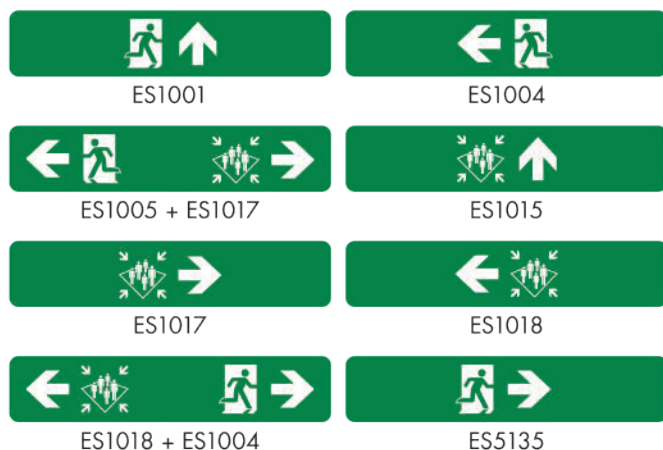
Materials:

- 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

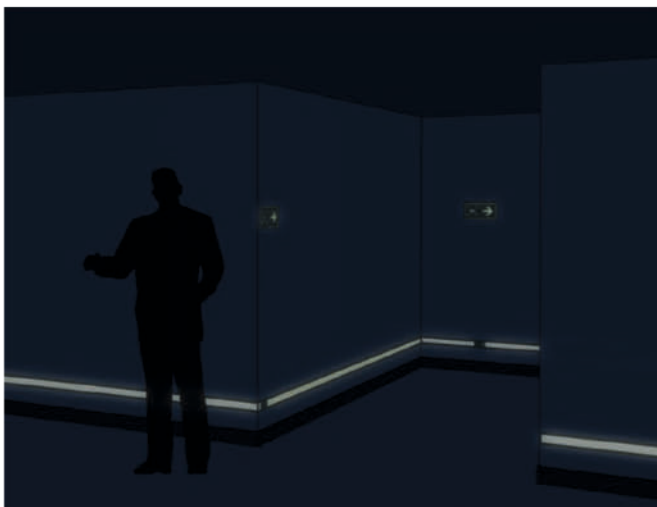
The below rules, regulations and standards describe the technical performance and properties of the products used, how to install these products/systems and how to certify and maintain these products/systems.

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 15370:2021	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
- 'Escape' 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 lighting 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



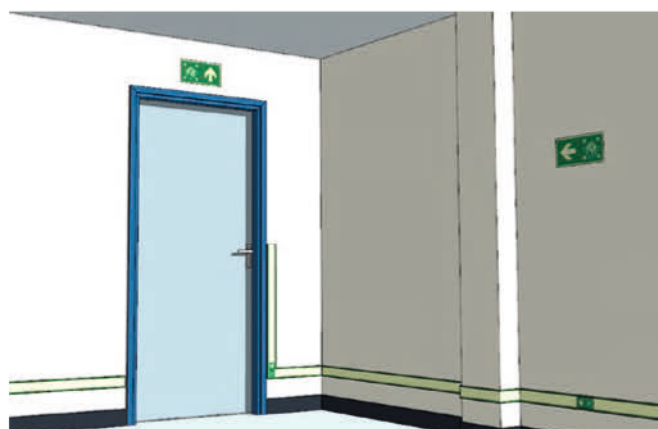
Luminance properties

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

The mentioned value's according to IMO Res. A 752(18) in above table are applicable when the width of the photo luminescent LLL is 75 mm. For all other heights, the values need to be re-calculated as specified in ISO15370:2021 Annex D. Below table show the minimum requirement for different widths.

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



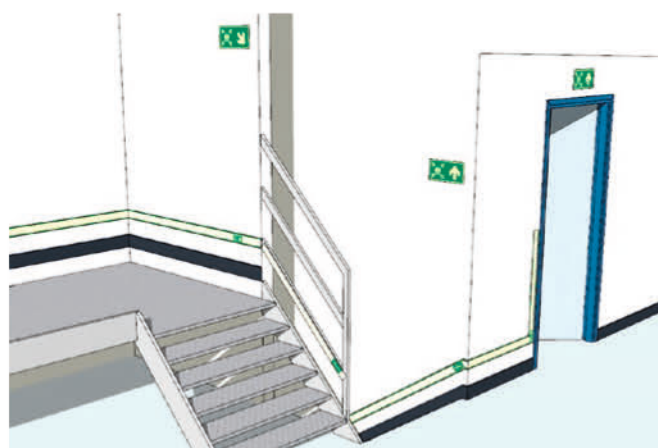
Innovative New Material: PET-X

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 1 m, 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

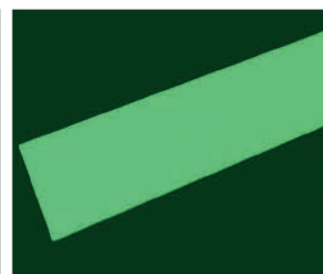
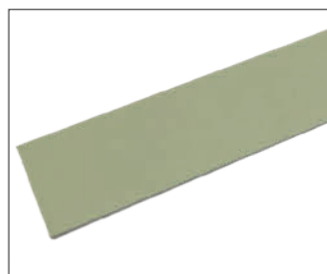
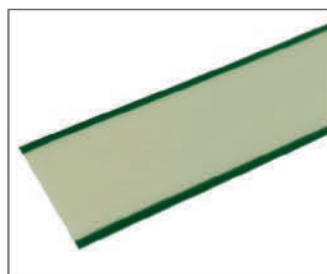
- DNV MED
- Wheelmark
- Korean Register

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	1 m x 60 mm (50 mm)	XXL	1,5 mm
SX070CG	LightLine Strip Pet-X green edges	1 m x 70 mm (60 mm)	XXL	1,5 mm
SX100CG	LightLine Strip Pet-X green edges	1 m x 100 mm (90 mm)	XXL	1,5 mm
SX040CN	LightLine Strip Pet-X neutral	1 m x 40 mm	XXL	1,5 mm
SX050CN	LightLine Strip Pet-X neutral	1 m x 50 mm	XXL	1,5 mm
SX070CN	LightLine Strip Pet-X neutral	1 m 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	1 m 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	1 m 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	-



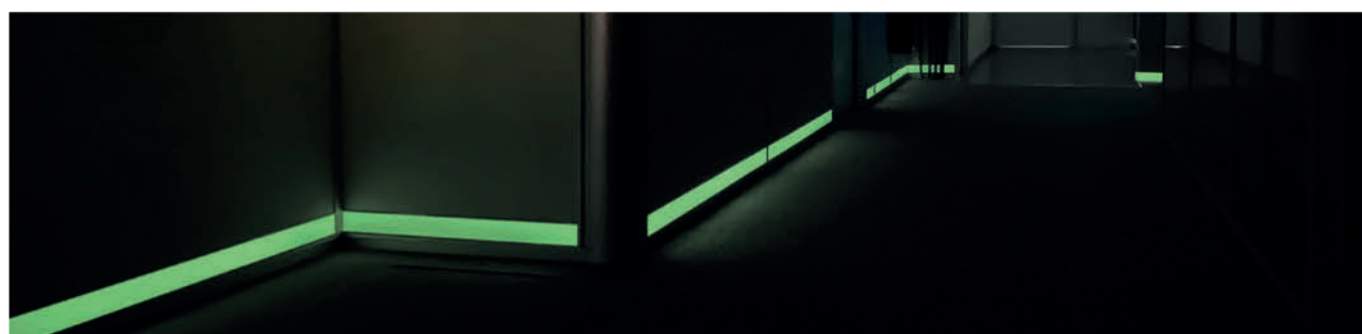
According ISO 15370;
Only dead-end corridors

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 (right hand)	50 x 50 mm	ES0002
	Shipboard assembly station	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 forward/Esc. door	100 x 50 mm	ES1001
	Escape door opens left	100 x 50 mm	ES1002
	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 forward (through door)	100 x 50 mm	ES1030
	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

LOW LOCATION LIGHTING MINI SYMBOLS

Symbol	Description	Dimensions	Article number
	Assembly station left vertical	50 x 100 mm	ES1106
	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

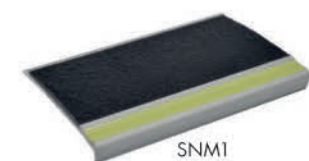
ALL LLL MINI SYMBOLS ARE ALSO AVAILABLE AS PET-X PL FOR USE IN COMBINATION WITH LED LLL OR WHEN FIRE FIGHTING EQUIPMENT IS LOCATED AT THE OPPOSITE SIDE OF A CORRIDOR.

ADDITIONAL AND OTHER LLL PRODUCTS

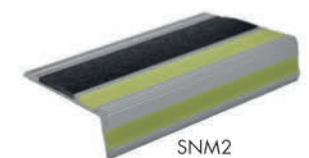
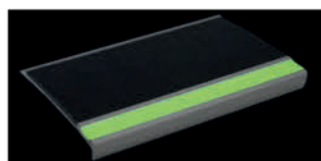
STAIRNOSE MARKERS

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.

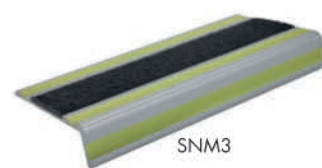
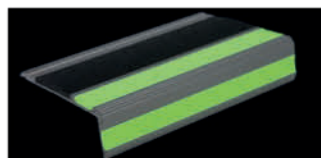
Luminance intensity (mcd/m ²)	10 min	60 min
Quality XXL	700 mcd/m ²	100 mcd/m ²



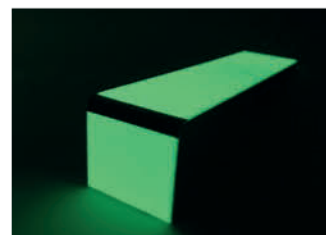
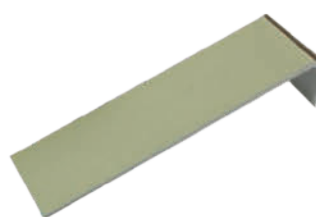
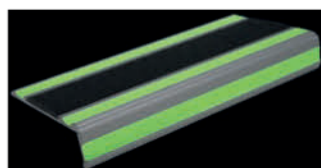
SNM1



SNM2



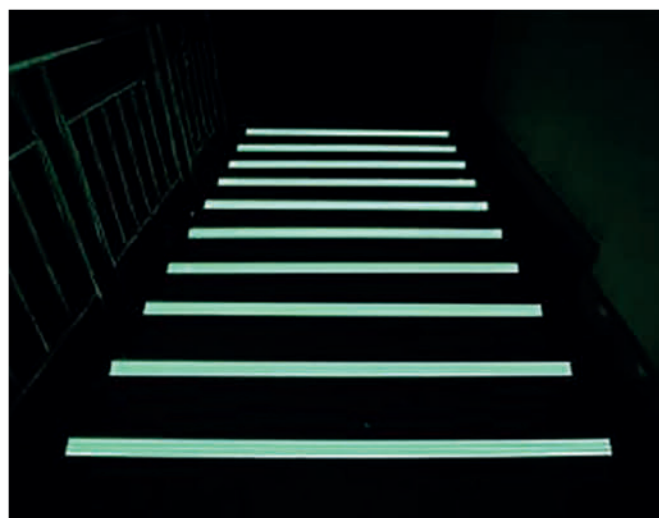
SNM3



Including a self adhesive backing and 90 degrees angle (200 + 40 mm).

Article number	Description	Dimension
SEM50A	Stair edge marker	50 x 200 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.



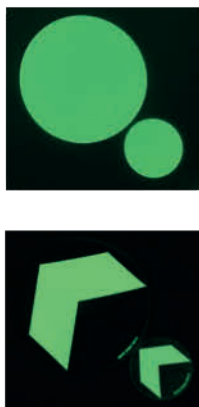
Article number	Description	Dimension
PHROPE100	Photoluminescent rope	16 mm x 100 m
PHROPECL	Photoluminescent rope	Custom length

ADDITIONAL AND OTHER LLL PRODUCTS

TRAILDOTS

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/m²
60 min. 28 mcd/m²



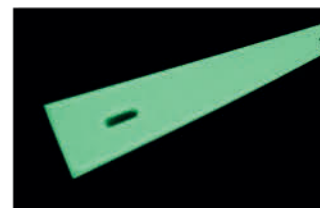
Art. number	Description	Dimension
LLPUG	LightLine PU Guideline	40 mm x 10 m

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.

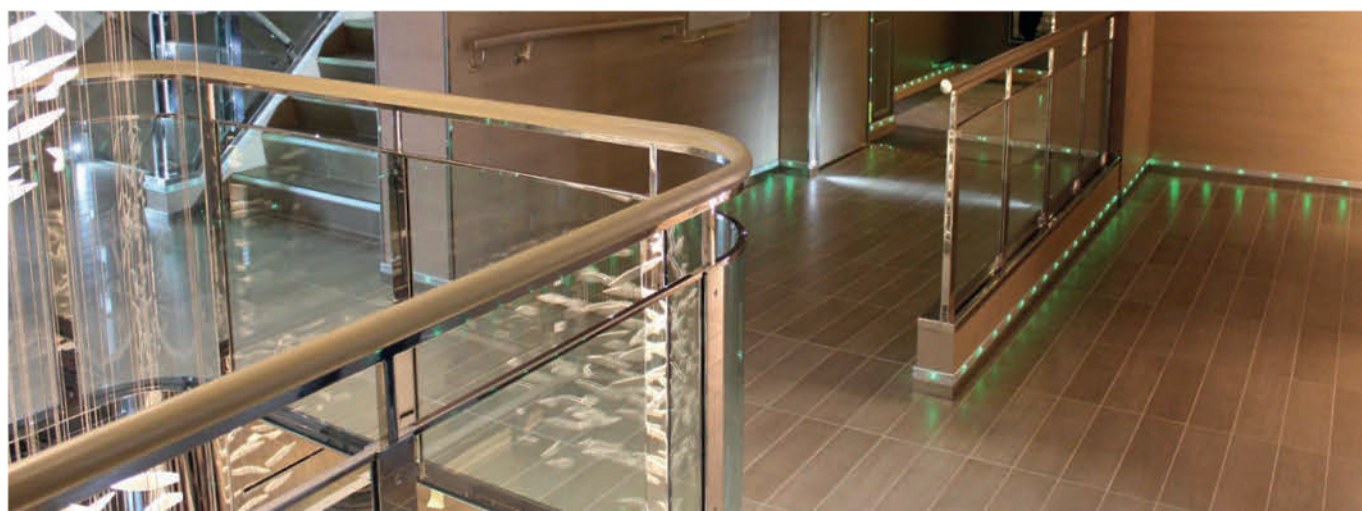
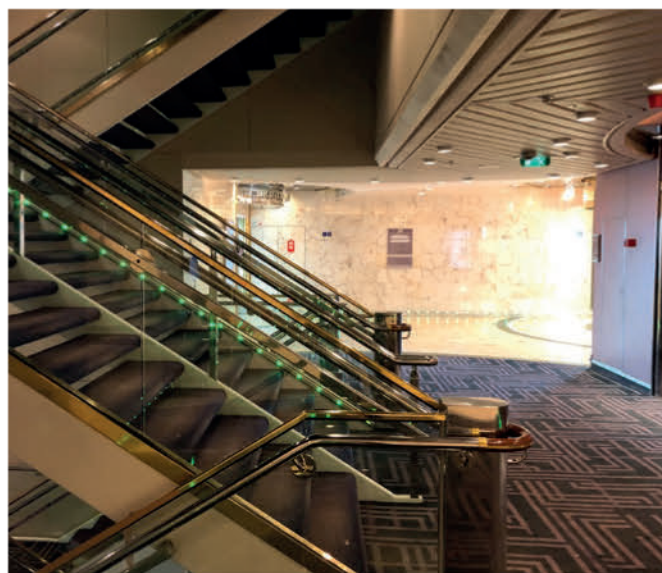
Certification and approvals

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



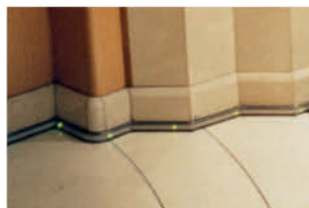
AVAILABLE PROFILE TYPES

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



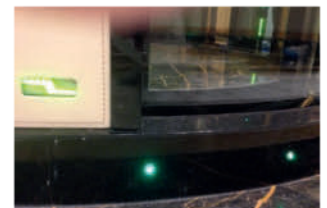
Polycarbonate Profile

- 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.

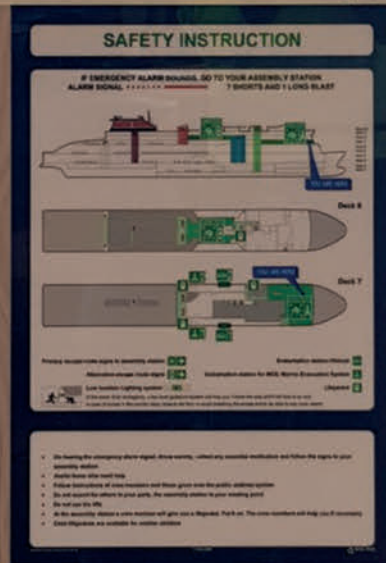
Turn Key Solutions

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



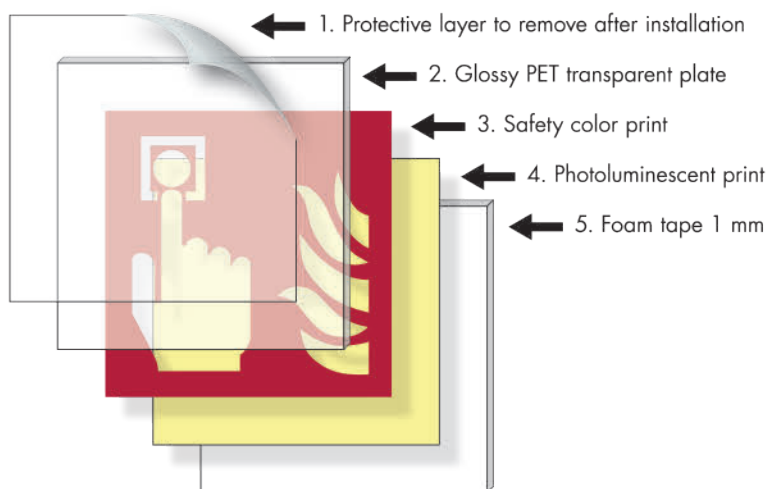
INTRODUCTION

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 on the back of the sign, 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?

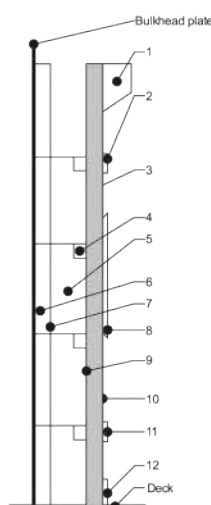
Solas Chapter 11-2 Reg 6 Part B 6.2 Part B - Prevention of Fire and Explosion
Reg 6 Smoke Generation Potential and Toxicity

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) (5.3.2.2)	Equivalent Volume (5.3.2.3) (5.3.2.3)	Low flame spread (5.3.2.4)* (5.3.2.4)*	Smoke Production, toxic products (6.2) (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) X (5.3.2.4.1.2)	
10 painted surface or fabric or veneer		X	X	X (5.3.2.4.1.1) 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 ²	10 mcd/m ²
PET-X, SafeSign XL mini LLL symbol, self adhesive	50 mm	B+	75 mcd/m ²	10 mcd/m ²
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/m² / 60 min - 90 mcd/m².

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 ²	10 mcd/m ²
Pet-X, SafeSign XL, self adhesive	50, 70, 100, 150, 200, 300, 400 mm	B+	75 mcd/m ²	10 mcd/m ²
Aluminium SafeSign XXL	Standard dimensions as in catalogue	C+	160 mcd/m ²	22 mcd/m ²
Aluminium SafeSign XXX, colourglow (safety colours in the dark)	Standard dimensions as in catalogue	E	300 mcd/m ²	40 mcd/m ²
PVC, SafeSign XL, self adhesive	Standard dimensions as in catalogue		50 mcd/m ²	7 mcd/m ²
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
150x150 mm
50x50 mm
ISSA 4754422
IMPA 334422

Emergency exit (right hand)



ES0002
150x150 mm
50x50 mm
ISSA 4754423
IMPA 334423

Evacuation assembly point



ES0003
150x150 mm

Shipboard assembly station



ES0004
150x150 mm
50x50 mm
ISSA 4754069
IMPA 334069

Escape ladder



ES0005
150x150 mm
50x50 mm

Escape direction, arrow (90°)



ES0006
150x150 mm
50x50 mm
ISSA 4754420
IMPA 334420

Escape direction, arrow (45°)



ES0007
150x150 mm
50x50 mm
ISSA 4754421
IMPA 334421

Embarkation ladder



ES0008
150x150 mm
ISSA 4754054
IMPA 334054

Marine evacuation slide



ES0009
150x150 mm
50x50 mm
ISSA 4754055
IMPA 334055

Marine evacuation chute



ES0010
150x150 mm
50x50 mm
ISSA 4754070
IMPA 334070

Lifeboat



ES0012
150x150 mm
ISSA 4754050
IMPA 334050

Rescue boat



ES0013
150x150 mm
ISSA 4754051
IMPA 334051

Liferaft



ES0014
150x150 mm
50x50 mm
ISSA 4754052
IMPA 334052

Davit-launched liferaft



ES0015
150x150 mm
ISSA 4754053
IMPA 334053

Door slides right to open



ES0017
150x150 mm
50x50 mm
ISSA 4754483
IMPA 334483

Door slides left to open



ES0018
150x150 mm
50x50 mm
ISSA 4754145
IMPA 334145

Turn anticlockwise to open



ES0019
150x150 mm
ISSA 4754152
IMPA 334152

Turn clockwise to open



ES0020
150x150 mm
ISSA 4754153
IMPA 334153

Door opens by pulling left side



ES0021
150x150 mm
ISSA 4754146
IMPA 334146

Door opens by pulling right side



ES0022
150x150 mm
ISSA 4754145
IMPA 334145

Door opens by pushing left



ES0023
150x150 mm
ISSA 4754152
IMPA 334152

Door opens by pushing right



ES0024
150x150 mm
ISSA 4754153
IMPA 334153

Scramble net



ES0026
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
150x150 mm
ISSA 4752440
IMPA 332440

Helicopter pickup area



ES0031
150x150 mm

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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

Emergency exit impairm. left



ES0041
150x150 mm

Emergency exit impairm. 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
100x50 mm

Escape door opens left



ES1002
300x150 mm
100x50 mm

Escape route downwards



ES1003
300x150 mm

Escape route to the left



ES1004
300x150 mm
100x50 mm

Escape route to the right



ES1005
300x150 mm
100x50 mm

Escape route downstairs left



ES1006
300x150 mm
100x50 mm

Escape downstairs right



ES1007
300x150 mm
100x50 mm

Escape upstairs left



ES1008
300x150 mm
100x50 mm

Escape upstairs right



ES1009
300x150 mm
100x50 mm

ASSEMBLY STATION LAND / ONSHORE

Assembly point forward/up



ES1015
300x150 mm

Assembly point downwards



ES1016
300x150 mm

Assembly point to the left



ES1017
300x150 mm

Assembly point to the 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
100x50 mm

Assembly station downwards



ES1031
300x150 mm

Assembly station left



ES1032
300x150 mm
100x50 mm

Assembly station right



ES1033
300x150 mm
100x50 mm

Assembly station downstairs left



ES1034
300x150 mm
100x50 mm

Assembly station downstairs right



ES1035
300x150 mm
100x50 mm

Assembly station upstairs left



ES1036
300x150 mm
100x50 mm

Assembly station upstairs right



ES1037
300x150 mm
100x50 mm

Assembly station forward/up



ES1038
300x150 mm
100x50 mm

Escape ladder forward/upwards



ES1045
300x150 mm
100x50 mm

Escape ladder downwards



ES1046
300x150 mm

Escape ladder to the left



ES1047
300x150 mm

Escape ladder to the right



ES1048
300x150 mm

Lifeboat forward/up



ES1050
300x150 mm
100x50 mm

Lifeboat downwards



ES1051
300x150 mm

Lifeboat to the left



ES1052
300x150 mm
100x50 mm

Lifeboat to the right



ES1053
300x150 mm
100x50 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 to the left vertical



ES1103
150x300 mm
50x100 mm

Escape route to the right vertical



ES1104
150x300 mm
50x100 mm

Assembly station forward vertical



ES1105
150x300 mm
50x100 mm

Assembly station to the left vertical



ES1106
150x300 mm
50x100 mm

Assembly station to the 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

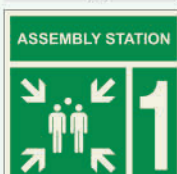
LAND / ONSHORE

Assembly point sign



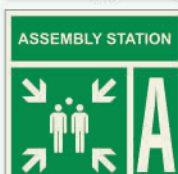
ES2000
250x333 mm
300x400 mm

Assembly point sign number



1 ES2001
2 ES2002
3 ES2003
4 ES2004
400x400 mm
800x800 mm
1000x1000 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
250x333 mm
360x480 mm

Assembly station location sign



A ES2101
B ES2102
C ES2103
D ES2104
E ES2105
F ES2106
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

LIFEBOAT OR EMBARKATION STATIONS ALWAYS IDENTIFIED BY NUMBER

Lifeboat location sign



ES2120
250x333 mm
360x480 mm

Lifeboat location 1 sign



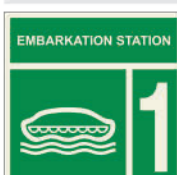
1 ES2121
2 ES2122
3 ES2123
4 ES2124
5 ES2125
6 ES2126
300x300 mm
480x480 mm

Embarkation station lifeboat



ES2130
250x333 mm
360x480 mm

Embarkation station lifeboat



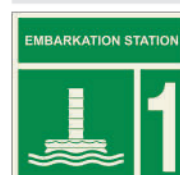
1 ES2131
2 ES2132
3 ES2133
4 ES2134
300x300 mm
480x480 mm

Embarkation station chute



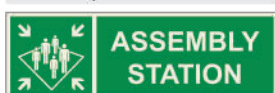
ES2140
250x333 mm
360x480 mm

Embarkation station chute



1 ES2141
2 ES2142
3 ES2143
4 ES2144
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
75x150 mm
ISSA 4754200
IMPA 334200

Number 1



ES3001
75x150 mm
ISSA 4754201
IMPA 334201

Number 2



ES3002
75x150 mm
ISSA 4754202
IMPA 334202

Number 3



ES3003
75x150 mm
ISSA 4754203
IMPA 334203

Number 4



ES3004
75x150 mm
ISSA 4754204
IMPA 334204

Number 5



ES3005
75x150 mm
ISSA 4754205
IMPA 334205

Number 6



ES3006
75x150 mm
ISSA 4754206
IMPA 334206

Number 7



ES3007
75x150 mm
ISSA 4754207
IMPA 334207

Number 8



ES3008
75x150 mm
ISSA 4754208
IMPA 334208

Number 9



ES3009
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
75x150 mm
ISSA 4754210
IMPA 334210

Letter B



ES3021
75x150 mm
ISSA 4754211
IMPA 334211

Letter C



ES3022
75x150 mm
ISSA 4754211
IMPA 334211

Letter D



ES3023
75x150 mm
ISSA 4754213
IMPA 334213

Letter E



ES3024
75x150 mm
ISSA 4754214
IMPA 334214

Letter F



ES3025
75x150 mm
ISSA 4754215
IMPA 334215

Letter G



ES3026
75x150 mm
ISSA 4754216
IMPA 334216

Letter H



ES3027
75x150 mm
ISSA 4754217
IMPA 334217

Letter J



ES3028
75x150 mm

Letter K



ES3029
75x150 mm



ESCAPE ROUTE SIGNS

Deck 0  ES3030 150x150 mm	Deck 1  ES3031 150x150 mm	Deck 2  ES3032 150x150 mm	Deck 3  ES3033 150x150 mm
Deck 4  ES3034 150x150 mm	Deck 5  ES3035 150x150 mm	Deck 6  ES3036 150x150 mm	Deck 7  ES3037 150x150 mm
Deck 8  ES3038 150x150 mm	Deck 9  ES3039 150x150 mm	Deck 10  ES3040 150x150 mm	Deck  11 ES3041 12 ES3042 13 ES3043 14 ES3044 15 ES3045 16 ES3046 150x150 mm
Number -2  ES3048 150x150 mm	Number -1  ES3049 150x150 mm	Number 0  ES3050 150x150 mm	Number 1  ES3051 150x150 mm
Number 2  ES3052 150x150 mm	Number 3  ES3053 150x150 mm	Number 4  ES3054 150x150 mm	Number 5  ES3055 150x150 mm
Number 6  ES3056 150x150 mm	Number 7  ES3057 150x150 mm	Number 8  ES3058 150x150 mm	Number  9 ES3059 10 ES3060 11 ES3061 12 ES3062 13 ES3063 14 ES3064 15 ES3065 16 ES3066 150x150 mm
























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ESCAPE ROUTE SIGNS

Letter A  ES3070 150x150 mm	Letter B  ES3071 150x150 mm	Letter C  ES3072 150x150 mm	Letter D  ES3073 150x150 mm
Letter E  ES3074 150x150 mm	Letter F  ES3075 150x150 mm	Letter G  ES3076 150x150 mm	Letter H ES3077 I ES3078 J ES3079 K ES3080 L ES3081 M ES3082 150x150 mm
Doorhandle arrow right  ES5020 80x120 mm	Doorhandle arrow left  ES5021 80x120 mm	WT doorhandle open right  ES5022 100x200 mm	WT doorhandle open left  ES5023 100x200 mm
Escape hatch open right  ES5024 200x75 mm	Escape hatch open left  ES5025 200x75 mm		
Push door to open  ES5027 100x100 mm	Pull door to open  ES5028 100x100 mm	Primary escape route ISO 17631  ES5051 150x150 mm ISSA 4756070 IMPA 336070	Secondary escape route ISO 17631  ES5052 150x150 mm ISSA 4756071 IMPA 336071
Doorhandle sign right  ES5055 75x200 mm	Doorhandle sign left  ES5056 75x200 mm	Doorhandle ass. st. sign right  ES5057 75x200 mm	Doorhandle ass. st. sign left  ES5058 75x200 mm
Escape door marking plate  ES5075 600x250 mm 750x300 mm 850x340 mm	Watertight door  ES5080 150x150 mm		

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ESCAPE ROUTE SIGNS

Lifeboat forward left



ES5101 ISSA 4754300
300x100 mm IMPA 334300

Lifeboat forward right



ES5102 ISSA 4754301
300x100 mm IMPA 334301

Lifeboat upstairs left



ES5103 ISSA 4754302
300x100 mm IMPA 334302

Lifeboat upstairs right



ES5104 ISSA 4754303
300x100 mm IMPA 334303

Lifeboat to the left



ES5105 ISSA 4754304
300x100 mm IMPA 334304

Lifeboat to the right



ES5106 ISSA 4754305
300x100 mm IMPA 334305

Lifeboat downstairs left



ES5107 ISSA 4754306
300x100 mm IMPA 334306

Lifeboat downstairs right



ES5108 ISSA 4754307
300x100 mm IMPA 334307

Lifeboat downwards left



ES5109 ISSA 4754308
300x100 mm IMPA 334308

Lifeboat downwards right



ES5110 ISSA 4754309
300x100 mm IMPA 334309

Assembly station forward left



ES5111 ISSA 4754320
300x100 mm IMPA 334320

Assembly station forward right



ES5112 ISSA 4754321
300x100 mm IMPA 334321

Assembly station upstairs left



ES5113 ISSA 4754322
300x100 mm IMPA 334322

Assembly station upstairs right



ES5114 ISSA 4754323
300x100 mm IMPA 334323

Assembly station to the left



ES5115 ISSA 4754324
300x100 mm IMPA 334324

Assembly station to the right



ES5116 ISSA 4754325
300x100 mm IMPA 334325

Assembly station downstairs left



ES5117 ISSA 4754326
300x100 mm IMPA 334326

Assembly station downstairs right



ES5118 ISSA 4754327
300x100 mm IMPA 334327

Assembly station downwards left



ES5119 ISSA 4754328
300x100 mm IMPA 334328

Assembly station downwards right



ES5120 ISSA 4754329
300x100 mm IMPA 334329

Refuge point disabled left



ES5125
300x100 mm

Refuge point disabled right



ES5126
300x100 mm

Refuge point keep clear



ES5127 ISSA 4754821
300x100 mm IMPA 334821



ESCAPE ROUTE SIGNS

Exit left hand



ES5128 ISSA 4754410
300x150 mm IMPA 334410

Exit right hand



ES5129 ISSA 4754411
300x150 mm IMPA 334411

Exit forward left



ES5130 ISSA 4754400
450x150 mm IMPA 334400

Exit forward right



ES5131 ISSA 4754401
450x150 mm IMPA 334401

Exit upstairs left



ES5132 ISSA 4754402
450x150 mm IMPA 334402

Exit upstairs right



ES5133 ISSA 4754403
450x150 mm IMPA 334403

Exit to the left



ES5134 ISSA 4754404
450x150 mm IMPA 334404

Exit to the right



ES5135 ISSA 4754405
450x150 mm IMPA 334405

Exit downstairs left



ES5136 ISSA 4754406
450x150 mm IMPA 334406

Exit downstairs right



ES5137 ISSA 4754407
450x150 mm IMPA 334407

Exit down



ES5138 ISSA 4754408
450x150 mm IMPA 334408

Exit down



ES5139 ISSA 4754409
450x150 mm IMPA 334409

Exit lefthand



ES5140 ISSA 4754410
450x150 mm IMPA 334410

Exit righthand



ES5141 ISSA 4754411
450x150 mm IMPA 334411

Emergency exit only right



ES5142 ISSA 4754413
450x150 mm IMPA 334413

Emergency exit only left



ES5143 ISSA 4754412
450x150 mm 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 downwards left



ES5158
450x150 mm

Emergency exit downwards right



ES5159
450x150 mm



ESCAPE ROUTE SIGNS

Slide right to open



ES5201 ISSA 4754483
450x150 mm IMPA 334483

Slide left to open



ES5202 ISSA 4754482
450x150 mm IMPA 334482

Escape ladder



ES5211 ISSA 4754188
450x150 mm IMPA 334188

Helideck



ES5212 ISSA 4754189
450x150 mm IMPA 334189

Suppl. text escape route



ES5301 ISSA 4754340
450x150 mm IMPA 334340

Suppl. text escape door



ES5302 ISSA 4754343
450x150 mm IMPA 334343

Suppl. text escape window



ES5303 ISSA 4754344
450x150 mm IMPA 334344

Suppl. text escape hatch



ES5304 ISSA 4754342
450x150 mm IMPA 334342

Suppl. text deck



ES5305 ISSA 4754470
400x150 mm IMPA 3345470

Suppl. text stairway



ES5306 ISSA 4754417
400x150 mm IMPA 334471

Suppl. text wheelhouse



ES5307
300x100 mm

Suppl. text Primary escape to assembly station



ES5308
400x150 mm

Suppl. text Secondary escape to assembly station



ES5309
400x150 mm

Suppl. text EXIT



ES5310
150x150 mm
ISSA 4754425
IMPA 334425

Suppl. text EXIT



ES5311
300x150 mm

Suppl. text EXIT emergency use only



ES5312
150x150 mm
ISSA 4754424
IMPA 334424

Suppl. text EXIT emergency use only



ES5313 ISSA 4754424
300x150 mm IMPA 334424

Suppl. text EMERGENCY EXIT



ES5314
150x150 mm
ISSA 4754424
IMPA 334424

Suppl. text EMERGENCY EXIT



ES5315
300x150 mm

Suppl. text Emergency exit



ES5316
150x50 mm

Suppl. text Assembly station



ES5317
300x150 mm

Suppl. text EXIT secondary escape



ES5318
300x150 mm

ALL SYMBOLS ARE AVAILABLE WITH ADDITIONAL TEXT

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



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RESCUE SIGNS

First aid



RS0001
150x150 mm
ISSA 4754150
IMPA 334150

Stretcher



RS0002
150x150 mm
ISSA 4754071
IMPA 334071

Safety shower



RS0003
150x150 mm
ISSA 4754145
IMPA 334145

Eyewash station



RS0004
150x150 mm
ISSA 4754152
IMPA 334152

Emergency telephone



RS0005
150x150 mm
ISSA 4754153
IMPA 334153

Doctor



RS0006
150x150 mm
ISSA 4754152
IMPA 334152

Medical grab bag



RS0007
150x150 mm
ISSA 4754135
IMPA 334135

AED (heart defibrillator)



RS0008
150x150 mm
ISSA 4754137
IMPA 334137

EEBD (em. breathing device)



RS0009
150x150 mm
ISSA 4754078
IMPA 334078

Oxygen resuscitator



RS0010
150x150 mm
ISSA 4754048
IMPA 334048

Emergency stop button



RS0011
150x150 mm
ISSA 4754154
IMPA 335154

Drinking water



RS0012
150x150 mm

Break to obtain access



RS0013
150x150 mm
ISSA 4754145
IMPA 334145

Liferaft knife



RS0014
150x150 mm
ISSA 4754152
IMPA 334152

Emergency hammer



RS0015
150x150 mm

Child seat detection (CPOD)



RS0016
150x150 mm

Lifebuoy



RS0020
150x150 mm
ISSA 4754056
IMPA 334056

Lifebuoy with line



RS0021
150x150 mm
ISSA 4754057
IMPA 334057

Lifebuoy with light



RS0022
150x150 mm
ISSA 4754058
IMPA 334058

Lifebuoy with line and light



RS0023
150x150 mm
ISSA 4754134
IMPA 334134

Lifebuoy with line and smoke



RS0024
150x150 mm

Lifebuoy with light and smoke



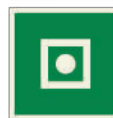
RS0025
150x150 mm
ISSA 4754059
IMPA 334059

Lifebuoy with light, line and smoke



RS0026
150x150 mm
ISSA 4754109
IMPA 334109

Shipboard general alarm



RS0027
150x150 mm
ISSA 4754155
IMPA 334155



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RESCUE SIGNS

Lifejacket



RS0028
150x150 mm
ISSA 4754060
IMPA 334060

Child's lifejacket



RS0029
150x150 mm
ISSA 4754061
IMPA 334061

Infant's lifejacket



RS0030
150x150 mm
ISSA 4754080
IMPA 334080

Lifejacket storage quantities



RS2004
450x400 mm
Specify
desired
numbers

Search and rescue transponder



RS0031
150x150 mm
ISSA 4754065
IMPA 334065

Survival craft distress signal



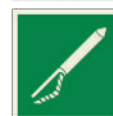
RS0032
150x150 mm
ISSA 4754066
IMPA 334066

Rocket parachute flare



RS0033
150x150 mm
ISSA 4754067
IMPA 334067

Line throwing appliance



RS0034
150x150 mm
ISSA 4754068
IMPA 334068

VHF portable radio



RS0035
150x150 mm
ISSA 4754063
IMPA 334063

EPIRB (em. position indic. radio beacon)



RS0036
150x150 mm
ISSA 4754064
IMPA 334064

Survival clothing



RS0037
150x150 mm
ISSA 4754062
IMPA 334062

Person overboard call point



RS0038
150x150 mm

Evacuation mattress



RS0039
150x150 mm

First aid responder



RS0040
150x150 mm

Directional indicator rescue equipment



RS0100
50x150 mm

USE OF DIRECTIONAL INDICATOR



RESCUE SIGNS

Anti exposure suit



RS1001
150x150 mm
ISSA 4754076
IMPA 334076

Thermal protective aid



RS1002
150x150 mm
ISSA 4754075
IMPA 334075

First aid kit



RS1003
150x150 mm
ISSA 4752413
IMPA 332413

Shipboard smoke hood



RS1004
150x150 mm
ISSA 4754183
IMPA 334183

Emergency torch



RS1005
150x150 mm

Safety equipment storage



RS1006
150x150 mm
ISSA 4754184
IMPA 334184

Safety locker (shipboard)



RS1007
150x150 mm

First aid call point



RS1008
150x150 mm
ISSA 4754393
IMPA 334393

General shipboard alarm



RS1009
150x150 mm
ISSA 4754155
IMPA 334155

Aldis lamp



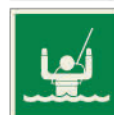
RS1010
150x150 mm

Voyage data recorder



RS1011
150x150 mm
ISSA 4754157
IMPA 334157

Rescue ring



RS1012
150x150 mm

Rescue basket



RS1013
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
150x150 mm

Survival hook



RS1019
150x150 mm

Portable gas detector



RS1050
150x150 mm

Safety locker



RS1051
150x150 mm

Helicopter crash kit



RS1052
150x150 mm

Spill kit



RS1053
150x150 mm

Emergency telephone



RS1054
150x150 mm

Safety harness



RS1055
150x150 mm

RESCUE SIGNS

Lifejacket quantity



RS2001
150x200 mm
Specify desired numbers

Child's lifejacket quantity



RS2002
150x200 mm
Specify desired numbers

Infant's lifejacket quantity



RS2003
150x200 mm
Specify desired numbers

Lifejacket storage quantities



RS2004
450x400 mm
Specify desired numbers

Immersion suit quantity



RS2005
150x200 mm
Specify desired numbers

EEBD quantity



RS2006
150x200 mm
Specify desired numbers

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
150x150 mm
ISSA 4754062
IMPA 334062

Lifejacket storage



RS3002
150x150 mm
ISSA 4754060
IMPA 334060

Child's lifejacket storage



RS3003
150x150 mm
ISSA 4754061
IMPA 334061

Infant's lifejacket storage



RS3004
150x150 mm
ISSA 4754142
IMPA 334142



MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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RESCUE SIGNS

First aid



RS5001 ISSA 4754171
300x100 mm IMPA 334171

Emergency eye wash



RS5002 ISSA 4754177
300x100 mm IMPA 334177

Stretcher



RS5003 ISSA 4754172
300x100 mm IMPA 334172

Emergency shower



RS5004 ISSA 4754176
300x100 mm IMPA 334176

Emergency telephone



RS5005 ISSA 4754178
300x100 mm IMPA 334178

Emergency stop



RS5006 ISSA 4754179
300x100 mm IMPA 334179

Protective equipment



RS5007 ISSA 4754174
300x100 mm IMPA 334174

Safe for entry



RS5008 ISSA 4754175
300x100 mm IMPA 334175

Safety equipment



RS5009 ISSA 4754184
300x100 mm IMPA 334184

Smoking area



RS5010 ISSA 4754185
300x100 mm IMPA 334185

Eating and drinking area



RS5011 ISSA 4754186
300x100 mm IMPA 334186

Pollution control equipment



RS5012 ISSA 4754187
300x100 mm IMPA 334187

Drinking water



RS5013 ISSA 4754180
300x100 mm IMPA 334180

Breathing apparatus



RS5014 ISSA 4754182
300x100 mm IMPA 334182

Emergency equipment



RS5015 ISSA 4754173
300x100 mm IMPA 334173

Medical grab bag



RS5016 ISSA 4754181
300x100 mm IMPA 334181

Defibrillator



RS5017 ISSA 4754137
300x100 mm IMPA 334137

Lifejacket



RS5018 ISSA 4754183
150x50 mm IMPA 334183

Lifejackets inside lifeboat



RS5019 ISSA 4754184
300x100 mm IMPA 334184

Lifejackets under seat



RS5020 ISSA 4754185
150x50 mm IMPA 334185

EEBD



RS5021 ISSA 4754186
150x50 mm IMPA 334186

Escape set



RS5022 ISSA 4754187
150x50 mm IMPA 334187

Smoke hood



RS5023 ISSA 4754188
150x50 mm IMPA 334188

Immersion suit



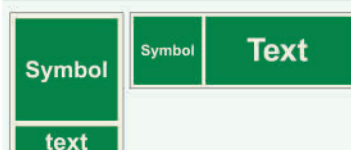
RS5024 ISSA 4754189
150x50 mm IMPA 334189

Break glass in emergency



RS5025 ISSA 4754187
300x100 mm IMPA 334187

ALL SYMBOLS ARE AVAILABLE WITH ADDITIONAL TEXT



MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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FIRE FIGHTING SIGNS

Fire extinguisher



FS0001
150x150 mm
50x50 mm
ISSA 4756100
IMPA 336100

Fire alarm call point



FS0002
150x150 mm
50x50 mm
ISSA 4756101
IMPA 336101

Fire hose reel



FS0003
150x150 mm
50x50 mm
ISSA 4756102
IMPA 336102

Unconnected empty fire hose



FS0004
150x150 mm
50x50 mm
ISSA 4756088
IMPA 336088

Fire emergency telephone



FS0005
150x150 mm
ISSA 4756104
IMPA 336104

Collection of firefighting equipment



FS0006
150x150 mm
ISSA 4756103
IMPA 336103

Fire blanket



FS0007
150x150 mm

Fire protection door



FS0008
150x150 mm

Fixed fire extinguishing battery



FS0009
150x150 mm
ISSA 4756048
IMPA 336048

Wheeled fire extinguishing



FS0010
150x150 mm

Portable foam applicator unit



FS0011
150x150 mm
ISSA 4756036
IMPA 336036

Water fog applicator



FS0012
150x150 mm
ISSA 4756024
IMPA 336024

Fixed fire extinguishing installation



FS0013
150x150 mm
ISSA 4756044
IMPA 336044

Fixed fire extinguishing bottle



FS0014
150x150 mm

Remote release station



FS0015
150x150 mm
ISSA 4756808
IMPA 336808

Fire monitor



FS0016
150x150 mm

Fire alarm flashing light



FS0017
150x150 mm

Firefighter's lift



FS0018
150x150 mm

Directional indicator fire equipment



FS0030
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 fire monitor



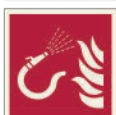
FS0204
150x150 mm

Remote control fire extinguish system



FS0205
150x150 mm

Hose box with nozzle



FS0206
150x150 mm

Fire fighter



FS0207
150x150 mm

Fire alarm horn



FS0208
150x150 mm

FIRE FIGHTING SIGNS

SUPPLEMENTARY COLOURS ACCORDING ISO 17631

Supplementary sign CO ₂ FS1001 50x150 mm	Supplementary sign Foam FS1002 50x150 mm	Supplementary sign Halon FS1003 50x150 mm	Supplementary sign Nitrogen FS1004 50x150 mm
Supplementary sign Powder FS1005 50x150 mm	Supplementary sign Water FS1006 50x150 mm	Supplementary sign Novec 1230 FS1007 50x150 mm	Supplementary sign Aerosol FS1008 50x150 mm
Supplementary sign Inergen FS1009 50x150 mm	Suppl. sign Drenching/Deluge FS1010 50x150 mm	Supplementary sign Sprinkler FS1011 50x150 mm	Supplementary sign Watermist FS1012 50x150 mm
Supplementary sign CO ₂ FS1051 150x50 mm	Supplementary sign Foam FS1052 150x50 mm	Supplementary sign Nitrogen FS1054 150x50 mm	Supplementary sign Powder FS1055 150x50 mm
Supplementary sign Water FS1056 150x50 mm	Supplementary sign Novec 1230 FS1057 150x50 mm	Supplementary sign Aerosol FS1058 150x50 mm	Supplementary sign Inergen FS1059 150x50 mm
Suppl. sign Drenching/Deluge FS1060 150x50 mm	Supplementary sign Sprinkler FS1061 150x50 mm	Supplementary sign Watermist FS1062 150x50 mm	
Supplementary sign CO ₂ ..kg FS1151 150x50 mm	Supplementary sign Foam ..L FS1152 150x50 mm	Supplementary sign Powder ..kg FS1155 150x50 mm	Supplementary sign water ..L FS1156 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
150x200 mm
ISSA 4756120
IMPA 336120

Fire alarm



FS2002
150x200 mm
ISSA 4756121
IMPA 336121

Fire hose reel



FS2003
150x200 mm
ISSA 4756122
IMPA 336122

Fire hose with nozzle



FS2004
150x200 mm

Fire phone



FS2005
150x200 mm
ISSA 4756124
IMPA 336124

Fire point



FS2006
150x200 mm
ISSA 4756123
IMPA 336123

Emergency shutdown



FS2007
150x200 mm

General alarm



FS2009
150x200 mm

Text on request



FS2010
150x200 mm

Fire door



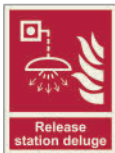
FS2013
150x200 mm

Fire door keep closed



FS2014
150x200 mm

Release station deluge



FS2011
150x200 mm

Text on request



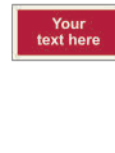
FS2012
150x200 mm

Supplementary text Fire extinguisher



FS2050
150x50 mm




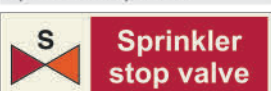
Supplementary text on request



FS2051
150x50 mm



FIRE FIGHTING SIGNS

Number 0  FS3000 75x150 mm ISSA 4756250 IMPA 336250	Number 1  FS3001 75x150 mm ISSA 4756251 IMPA 336251	Number 2  FS3002 75x150 mm ISSA 4756252 IMPA 336252	Number 3  FS3003 75x150 mm ISSA 4756253 IMPA 336253
Number 4  FS3004 75x150 mm ISSA 4756254 IMPA 336254	Number 5  FS3005 75x150 mm ISSA 4756255 IMPA 336255	Number 6  FS3006 75x150 mm ISSA 4756256 IMPA 336256	Number 7  FS3007 75x150 mm ISSA 4756257 IMPA 336257
Number 8  FS3008 75x150 mm ISSA 4756258 IMPA 336258	Number 9  FS3009 75x150 mm ISSA 4756259 IMPA 336259		
Fire hose reel  FS5001 ISSA 4756145 300x100 mm IMPA 336145	Fire hose with nozzle  FS5002 ISSA 4756143 300x100 mm IMPA 336143	In case of fire break glass  FS5003 ISSA 4756141 300x100 mm IMPA 336141	Fire alarm  FS5004 ISSA 4756142 300x100 mm IMPA 336142
Fire alarm call point  FS5005 ISSA 4756150 300x100 mm IMPA 336150	Fire blanket  FS5006 ISSA 4756149 300x100 mm IMPA 336149	Fire hydrant  FS5007 ISSA 4756164 300x100 mm IMPA 336164	Sprinkler control valve  FS5008 ISSA 4756153 300x100 mm IMPA 336153
Fire extinguisher  FS5009 ISSA 4756140 300x100 mm IMPA 336140	Fire equipment stored inside  FS5010 ISSA 4756147 300x100 mm IMPA 336147	Fire point  FS5011 ISSA 4756151 300x100 mm IMPA 336151	For use on flammable liquid  FS5012 ISSA 4756165 300x100 mm IMPA 336165
For use on electrical fires  FS5013 ISSA 4756163 300x100 mm IMPA 336163	For use on any fires  FS5014 ISSA 4756151 300x100 mm IMPA 336151	Used only in case of fire  FS5015 ISSA 4756152 300x100 mm IMPA 336152	Sprinkler stop valve  FS5016 ISSA 4756151 300x100 mm IMPA 336151

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FIRE FIGHTING SIGNS

Open valve before running out hose



FS5017 ISSA 4756146
300x100 mm IMPA 336146

Foam inlet



FS5019 ISSA 4756155
300x100 mm IMPA 336155

Firemans suit



FS5020 ISSA 4756158
300x100 mm IMPA 336158

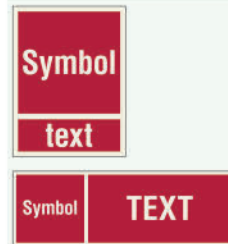
Fire pump start button



FS5021 ISSA 4756159
300x100 mm IMPA 336159



ALL SYMBOLS AVAILABLE WITH ADDITIONAL TEXT



Fire blanket



FS6001
100x200 mm
ISSA 4756434
IMPA 336434

Water extinguisher



FS6002
100x200 mm
ISSA 4756430
IMPA 336430

Foam extinguisher



FS6003
100x200 mm
ISSA 4756431
IMPA 336431

Powder extinguisher



FS6004
100x200 mm
ISSA 4756432
IMPA 336432

CO² extinguisher

FS6005
100x200 mm
ISSA 4756433
IMPA 336433

Water



FS6050
80x200 mm

Foam spray



FS6051
80x200 mm

Dry powder



FS6052
80x200 mm

BC powder



FS6053
80x200 mm

Powder M28



FS6054
80x200 mm

CO₂

FS6055
80x200 mm

CO₂

FS6056
80x200 mm

Fire hose



FS6057
80x200 mm

Fire hose reel



FS6058
80x200 mm

Wet chemical



FS6059
80x200 mm

Hydro-spray



FS6060
80x200 mm

Extinguisher backplate



FS6101
300x870 mm

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

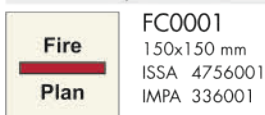
All vessels built from 2019 or at renovation, must have their safety signs in compliance with IMO A.1116(30) which refers to the ISO 24409-2. Our IMO signs comply with the ISO 24409-2 standard. This means that some of the fire control signs are replaced by standardized ones in the ISO 24409-2. In the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



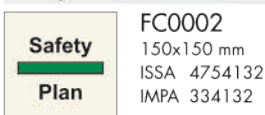
FIRE CONTROL SIGNS

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

Fire control plan



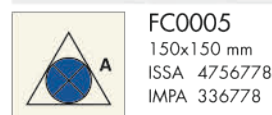
Safety Plan



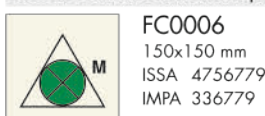
Fire and safety plan



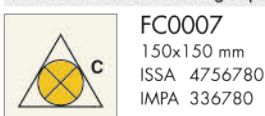
Remote vent. shut-off accom.



Remote vent. shut-off mach'n spaces



Remote vent. shut-off cargo spaces



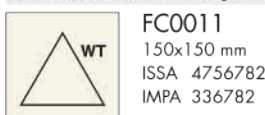
Remote ventilation shutoff



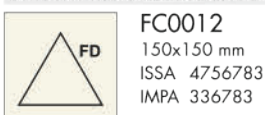
Remote control for skylight



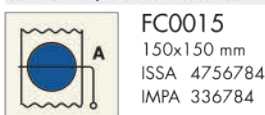
Remote control for watertight doors



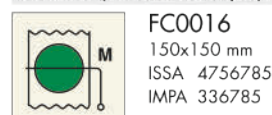
Remote control for fire doors



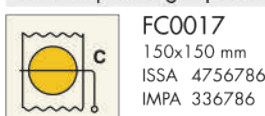
Fire damper accommodation



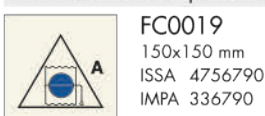
Fire damper machinery space



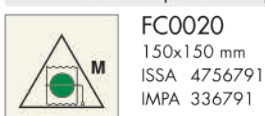
Fire damper cargo space



Rmt. control fire dampers accom.



Rmt. control fire dampers mach'n space



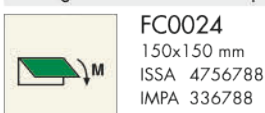
Rmt. control fire dampers cargo space



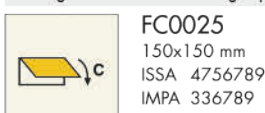
Closing device ventilation accom.



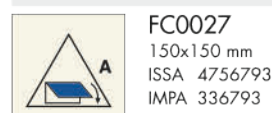
Closing device vent. mach'n spaces



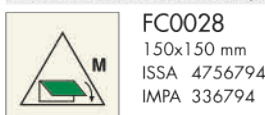
Closing device ventilation cargo spaces



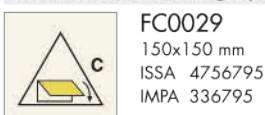
Rmt. control cl. device accom.



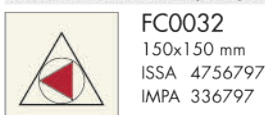
Rmt. control cl. device mach'n spaces



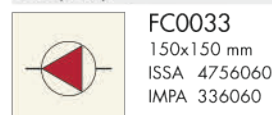
Rmt. control cl. device cargo spaces



Remote control fire pumps



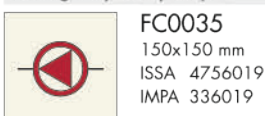
Fire pump



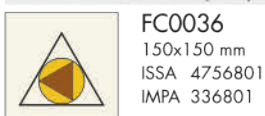
Remote control emergency fire pump



Emergency fire pump



Remote shut-off fuel pumps



Remote shut-off lube oil pumps



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FIRE CONTROL SIGNS

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

Remote control bilge pump(s)



FC0038
150x150 mm
ISSA 4756803
IMPA 336803

Remote control emergency bilge pump



FC0039
150x150 mm
ISSA 4756804
IMPA 336804

Remote control fuel oil valves



FC0042
150x150 mm
ISSA 4756805
IMPA 336805

Remote control lube oil valves



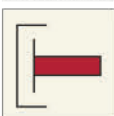
FC0043
150x150 mm
ISSA 4756806
IMPA 336806

Remote control for fire pump valves



FC0044
150x150 mm
ISSA 4756807
IMPA 336807

International shore connection



FC0047
150x150 mm
ISSA 4756059
IMPA 336059

Fire hydrant



FC0048
150x150 mm
50x50 mm
ISSA 4756815
IMPA 336815

Fire main section valve



FC0049
150x150 mm
ISSA 4756818
IMPA 336818

Sprinkler section valve



FC0050
150x150 mm
ISSA 4756819
IMPA 336819

Powder section valve



FC0051
150x150 mm
ISSA 4756817
IMPA 336817

Foam section valve



FC0052
150x150 mm
ISSA 4756816
IMPA 336816

Drenching section valve



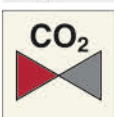
FC0053
150x150 mm
ISSA 4756029
IMPA 336029

Watermist section valve



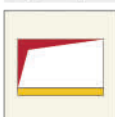
FC0054
150x150 mm

CO₂ section valve



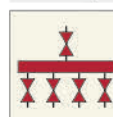
FC0055
150x150 mm

High expansion foam supply trunk



FC0056
150x150 mm
ISSA 4756838
IMPA 336838

Water spray system valves



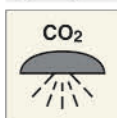
FC0057
150x150 mm
ISSA 4756027
IMPA 336027



FIRE CONTROL SIGNS

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

Space protected by CO₂ system



FC0060
150x150 mm
ISSA 4756007
IMPA 336007

Space protected by nitrogen system



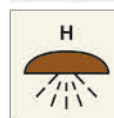
FC0061
150x150 mm
ISSA 4756877
IMPA 336877

Space protected by foam system



FC0062
150x150 mm
ISSA 4756016
IMPA 336016

Space protected by halon system



FC0063
150x150 mm
ISSA 4756011
IMPA 336011

Space protected by inergen system



FC0064
150x150 mm

Space protected by aerosol system



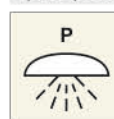
FC0065
150x150 mm

Space protected by NOVEC system



FC0066
150x150 mm

Space protected by powder system



FC0068
150x150 mm

Space protected by water system



FC0069
150x150 mm

Space protected by watermist system



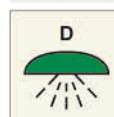
FC0070
150x150 mm

Space protected by sprinkler system



FC0071
150x150 mm
ISSA 4756045
IMPA 336045

Space prot. by drenching/deluge system



FC0072
150x150 mm
ISSA 4756028
IMPA 336028

Space protected by Hi Fog system



FC0073
150x150 mm

Emergency generator



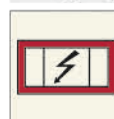
FC0076
150x150 mm
ISSA 4756076
IMPA 336076

Emergency battery



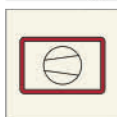
FC0077
150x150 mm
ISSA 4756887
IMPA 336887

Emergency switchboard



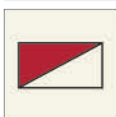
FC0078
150x150 mm
ISSA 4756077
IMPA 336077

Breathing air compressor



FC0079
150x150 mm
ISSA 4756869
IMPA 336869

Fire alarm panel



FC0080
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:







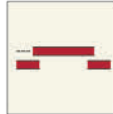


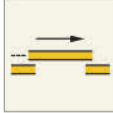


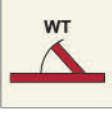
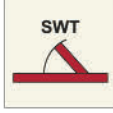
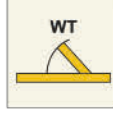
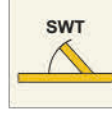

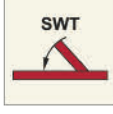
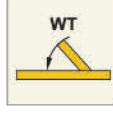
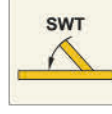


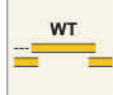
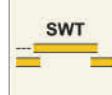
• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparant Vinyl • White, self-adhesive vinyl (non-reflective)

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.

A-class division  FC2001 150x150 mm ISSA 4756031 IMPA 336031	B-class division  FC2002 150x150 mm ISSA 4756037 IMPA 336037	A-class hinged fire door  FC2003 150x150 mm ISSA 4756032 IMPA 336032	B-class hinged fire door  FC2004 150x150 mm ISSA 4756038 IMPA 336038
A-class hinged self closing fire door  FC2005 150x150 mm ISSA 4754033 IMPA 336033	B-class hinged self closing fire door  FC2006 150x150 mm ISSA 4756039 IMPA 336039	A-class sliding fire door  FC2007 150x150 mm ISSA 4756034 IMPA 336034	B-class sliding fire door  FC2008 150x150 mm ISSA 4756040 IMPA 336040
A-class self closing sliding fire door  FC2009 150x150 mm ISSA 4756035 IMPA 336035	B-class self closing sliding fire door  FC2010 150x150 mm ISSA 4756041 IMPA 336041	Main vertical zone division  FC2125 150x150 mm ISSA 4756753 IMPA 336753	Main vertical zone  FC2126 150x150 mm ISSA 4756042 IMPA 336042
"A" Watertight fire door  FC2127 150x150 mm ISSA 4756755 IMPA 336755	"A" Semi-watertight fire door  FC2128 150x150 mm ISSA 4756756 IMPA 336756	"B" Watertight fire door  FC2129 150x150 mm ISSA 4756758 IMPA 336758	"B" Semi-watertight fire door  FC2130 150x150 mm ISSA 4756759 IMPA 336759
"A" Self closing watertight fire door  FC2131 150x150 mm ISSA 4756761 IMPA 336761	"A" Self closing semi-watertight fire door  FC2132 150x150 mm ISSA 4756762 IMPA 336762	"B" Self closing watertight fire door  FC2133 150x150 mm ISSA 4756764 IMPA 336764	"B" Self closing semi-watertight fire door  FC2134 150x150 mm ISSA 4756765 IMPA 336765
"A" Watertight sliding fire door  FC2135 150x150 mm ISSA 4756767 IMPA 336767	"A" Semi-watertight sliding fire door  FC2136 150x150 mm ISSA 4756768 IMPA 336768	"B" Watertight sliding fire door  FC2137 150x150 mm ISSA 4756770 IMPA 336770	"B" Semi-watertight sliding fire door  FC2138 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:

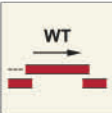














• Pet-X (PVC-free, the environment-friendly choice) • Retro-Reflective • Aluminum light • PVC • Transparent Vinyl • White, self-adhesive vinyl (non-reflective)

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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.

"A" Self closing sl watertight fire door  FC2139 150x150 mm ISSA 4756773 IMPA 336773	"A" Self cl. sl. semi-watertight fire door  FC2140 150x150 mm ISSA 4756774 IMPA 336774	"B" Self closing sl watertight fire door  FC2141 150x150 mm ISSA 4756776 IMPA 336776	"B" Self cl. sl. semi-watertight fire door  FC2142 150x150 mm ISSA 4756777 IMPA 336777
Fire axe  FC2072 150x150 mm ISSA 4756026 IMPA 336026	Smoke detector  FC2073 150x150 mm ISSA 4756056 IMPA 336056	Heat detector  FC2074 150x150 mm ISSA 4756061 IMPA 336061	Flame detector  FC2075 150x150 mm ISSA 4756875 IMPA 336875
Gas detector  FC2076 150x150 mm ISSA 4756062 IMPA 336062	Heat and smoke detector  FC2077 150x150 mm		
Spare charges fire extinguisher  FC2078 150x150 mm ISSA 4756715 IMPA 336715	Refills fire extinguisher  FC2079 150x150 mm		
Bilge pump  FC2090 150x150 mm ISSA 4756021 IMPA 336021	Emergency bilge pump  FC2091 150x150 mm ISSA 4756022 IMPA 336022		
Locker breathing apparatus  FC2092 150x150 mm ISSA 4756068 IMPA 336068			

FIRE CONTROL SIGNS

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

Remote release station CO₂  FC2012 150x150 mm ISSA 4756808 IMPA 336808	Remote release station nitrogen  FC2013 150x150 mm ISSA 4756809 IMPA 336809	Remote release station halon  FC2014 150x150 mm ISSA 4756810 IMPA 336810	Remote release station powder  FC2015 150x150 mm ISSA 4756812 IMPA 336812
Remote release station water  FC2016 150x150 mm ISSA 4756813 IMPA 336813	Remote release station foam  FC2017 150x150 mm ISSA 4756811 IMPA 336811	Remote release station inergen  FC2018 150x150 mm ISSA 4756808 IMPA 336808	Remote release station aerosol  FC2019 150x150 mm
Fixed fire ext. inst. CO₂  FC2021 150x150 mm ISSA 4756820 IMPA 336820	Fixed fire ext. inst. nitrogen  FC2022 150x150 mm ISSA 4756821 IMPA 336821	Fixed fire ext. inst. foam  FC2023 150x150 mm ISSA 4756823 IMPA 336823	Fixed fire ext. inst. halon  FC2024 150x150 mm ISSA 4756822 IMPA 336822
Fixed fire ext. inst. powder  FC2025 150x150 mm ISSA 4756824 IMPA 336824	fixed fire ext. inst. water  FC2026 150x150 mm ISSA 4756825 IMPA 336825	Extinguishing battery CO₂  FC2027 150x150 mm ISSA 4756826 IMPA 336826	Extinguishing battery nitrogen  FC2028 150x150 mm ISSA 4756827 IMPA 336827
Extinguishing battery foam  FC2029 150x150 mm ISSA 4756829 IMPA 336829	Extinguishing battery halon  FC2030 150x150 mm ISSA 4756828 IMPA 336828	Extinguishing battery powder  FC2031 150x150 mm ISSA 4756830 IMPA 336830	Extinguishing battery water  FC2032 150x150 mm ISSA 4756831 IMPA 336831
Extinguishing battery inergen  FC2033 150x150 mm ISSA 4756826 IMPA 336826	Extinguishing battery aerosol  FC2034 150x150 mm	Protected ext. bottle CO₂  FC2036 150x150 mm ISSA 4756832 IMPA 336832	Protected ext. bottle nitrogen  FC2037 150x150 mm ISSA 4756833 IMPA 336833
Protected ext. bottle foam  FC2038 150x150 mm ISSA 4756835 IMPA 336835	Protected ext. bottle halon  FC2039 150x150 mm ISSA 4756834 IMPA 336834	Protected ext. bottle powder  FC2040 150x150 mm ISSA 4756836 IMPA 336836	Protected ext. bottle water  FC2041 150x150 mm ISSA 4756837 IMPA 336837

FIRE CONTROL SIGNS

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

Protected ext. bottle aerosol  FC2042 150x150 mm	Foam monitor  FC2044 150x150 mm ISSA 4756841 IMPA 336841	Powder monitor  FC2045 150x150 mm ISSA 4756842 IMPA 336842	Water monitor  FC2046 150x150 mm ISSA 4756843 IMPA 336843
Hose reel foam  FC2047 150x150 mm ISSA 4756844 IMPA 336844	Hose reel powder  FC2048 150x150 mm ISSA 4756845 IMPA 336845	Hose reel water  FC2049 150x150 mm ISSA 4756846 IMPA 336846	CO₂ fire extinguisher  FC2050 150x150 mm ISSA 4756847 IMPA 336847
Powder fire extinguisher  FC2051 150x150 mm ISSA 4756850 IMPA 336850	Foam fire extinguisher  FC2052 150x150 mm ISSA 4756849 IMPA 336849	Halon fire extinguisher  FC2053 150x150 mm ISSA 4756848 IMPA 336848	Water fire extinguisher  FC2054 150x150 mm ISSA 4756851 IMPA 336851
Light water fire extinguisher  FC2055 150x150 mm ISSA 4756080 IMPA 336080	Water mist fire extinguisher  FC2056 150x150 mm	Wet chemical fire extinguisher  FC2057 150x150 mm	CO₂ wheeled fire extinguisher  FC2060 150x150 mm ISSA 4756852 IMPA 336852
Foam wheeled fire extinguisher  FC2061 150x150 mm ISSA 4756854 IMPA 336854	Halon wheeled fire extinguisher  FC2062 150x150 mm ISSA 4756853 IMPA 336853	Powder wheeled fire extinguisher  FC2063 150x150 mm ISSA 4756855 IMPA 336855	Water wheeled fire extinguisher  FC2064 150x150 mm ISSA 4756856 IMPA 336856
Portable foam applicator  FC2066 150x150 mm ISSA 4756857 IMPA 336857	Water fog applicator  FC2067 150x150 mm ISSA 4756885 IMPA 336885	General alarm button or switch  FC2070 150x150 mm ISSA 4756022 IMPA 336002	

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

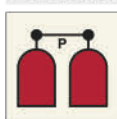
According to IMO A.1116(30) the signs of this page are only for use onboard vessels build before 2019.

Control station  FC2080 150x150 mm ISSA 4756066 IMPA 336066	Fire station  FC2081 150x150 mm ISSA 4756030 IMPA 336030	Fire equipment  FC2082 150x150 mm ISSA 4756067 IMPA 336067	Fire locker  FC2083 150x150 mm ISSA 4756858 IMPA 336858
Inert gas installation  FC2084 150x150 mm ISSA 4756073 IMPA 336073	Safety equipment  FC2085 150x150 mm	Heli equipment  FC2086 150x150 mm	Sprinkler  FC2094 150x150 mm ISSA 4756045 IMPA 336045
Rmt. controlled fuel/lub. oil valves  FC2095 150x150 mm ISSA 4756065 IMPA 336065	CO₂ release station  FC2097 150x150 mm ISSA 4756009 IMPA 336009	Halon release station  FC2098 150x150 mm ISSA 4756049 IMPA 336049	Hose box with spray / jet  FC2099 150x150 mm ISSA 4756058 IMPA 336058
Locker with add'l protective clothing  FC2100 150x150 mm ISSA 4756069 IMPA 336069	Rmt. contrll. fire pump or emergency sw  FC2101 150x150 mm ISSA 4756020 IMPA 336020	Fire main with valves  FC2102 150x150 mm ISSA 4756057 IMPA 336057	Space protected by automatic fire alarm  FC2103 150x150 mm ISSA 4756006 IMPA 335606
Emergency telephone station  FC2104 150x150 mm ISSA 4756025 IMPA 336025	Foam nozzle  FC2105 150x150 mm ISSA 4756015 IMPA 336015	Sprinkler installation  FC2106 150x150 mm ISSA 4756044 IMPA 336044	Manual call point  FC2107 150x150 mm ISSA 4756005 IMPA 336005
Monitored by detector  FC2108 150x150 mm ISSA 4756055 IMPA 336055	Wet chemical applicator  FC2109 150x150 mm	Emergency light  FC2111 150x150 mm	Battery 24V  FC2112 150x150 mm
Space protected by foam  FC2113 150x150 mm ISSA 4756016 IMPA 336016	Sprinkler horn  FC2114 150x150 mm ISSA 4756046 IMPA 336046	Remote control skylights  FC2115 150x150 mm ISSA 4756064 IMPA 336064	Powder installation  FC2116 150x150 mm ISSA 4756051 IMPA 336051

FIRE CONTROL SIGNS

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

Powder release station



FC2117
150x150 mm
ISSA 4756054
IMPA 336054

Foam release station



FC2118
150x150 mm
ISSA 4756018
IMPA 336018

Foam valve



FC2119
150x150 mm
ISSA 4756017
IMPA 336017

High exp. foam suppl. trunk



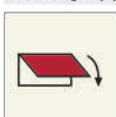
FC2120
150x150 mm
ISSA 4756074
IMPA 336074

Foam installation



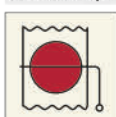
FC2121
150x150 mm
ISSA 4756013
IMPA 336013

Closing appliance ext. vent. in/out



FC2122
150x150 mm
ISSA 4756072
IMPA 336072

Fire damper in vent duct



FC2123
150x150 mm
ISSA 4756063
IMPA 336063

Fire alarm



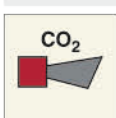
FC2148
150x150 mm
ISSA 4756004
IMPA 336004

Fire alarm horn



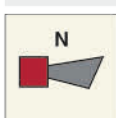
FC2149
150x150 mm
ISSA 4756003
IMPA 336003

Alarm horn CO₂ system



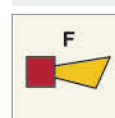
FC2150
150x150 mm
ISSA 4756008
IMPA 336008

Alarm horn nitrogen system



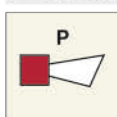
FC2151
150x150 mm

Alarm horn foam system



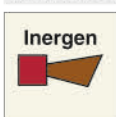
FC2152
150x150 mm

Alarm horn powder system



FC2153
150x150 mm

Alarm horn inergen system



FC2154
150x150 mm

Alarm horn novoc system



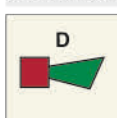
FC2155
150x150 mm

Alarm horn aerosol system



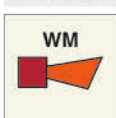
FC2156
150x150 mm

Alarm horn drenching system



FC2157
150x150 mm

Alarm horn watermist system



FC2158
150x150 mm

MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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WARNING SIGNS

General warning sign



WS0001
150x150 mm
ISSA 4757500
IMPA 337500

Flammable material



WS0002
150x150 mm
ISSA 4757509
IMPA 337509

Explosive material



WS0003
150x150 mm
ISSA 4757504
IMPA 337504

Toxic material



WS0004
150x150 mm
ISSA 4757506
IMPA 337506

Corrosive substance



WS0005
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
150x150 mm
ISSA 4757507
IMPA 337507

Radioactive material or ionizing radiation



WS0010
150x150 mm
ISSA 4757511
IMPA 337511

Biological hazard



WS0011
150x150 mm
ISSA 4757501
IMPA 337501

Low temperature / freezing conditions



WS0012

Hot surface



WS0013

Overhead load



WS0015
150x150 mm

Industrial vehicles



WS0016
150x150 mm
ISSA 4757503
IMPA 337503

Automatic start-up



WS0017
150x150 mm

Run over by remote operator controlled machine



WS0018
150x150 mm

Pressurized cylinder



WS0019
150x150 mm

Battery charging



WS0020
150x150 mm

Non-ionizing radiation



WS0021
150x150 mm
ISSA 4757515
IMPA 337515

Laser beam



WS0022
150x150 mm

Optical radiation



WS0023
150x150 mm



MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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WARNING SIGNS

Magnetic field



WS0024
150x150 mm

Asphyxiation atmosphere



WS0025
150x150 mm

Sudden loud noise



WS0026
150x150 mm

Arc flash



WS0027
150x150 mm

Floor level obstacle



WS0029
150x150 mm
ISSA 4757508
IMPA 337508

Drop (fall)



WS0030
150x150 mm

Slippery surface



WS0031
150x150 mm
ISSA 4757501
IMPA 337501

Overhead obstacle



WS0032
150x150 mm
ISSA 4757502
IMPA 337502

Crushing



WS0033

Crushing of hands



WS0034

Sharp element



WS0035
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
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

Step down



WS0057
150x150 mm

Long term health hazard



WS0058
150x150 mm

Environmental hazard



WS0059
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
150x150 mm

Confined space



WS1013
150x150 mm

Hot steam under pressure



WS1014
150x150 mm

High pressure water jets



WS1015
150x150 mm

Space with high temperature



WS1016
150x150 mm

Moving machinery



WS2001
150x200 mm
ISSA 4757546
IMPA 337546

Gas under pressure



WS2002
150x200 mm

Poison gas



WS2003
150x200 mm

High noise levels



WS2004
150x200 mm

Lack of oxygen



WS2005
150x200 mm
ISSA 4757544
IMPA 337544

Explosive atmosphere



WS2006
150x200 mm

Work in progress on radar



WS2007
150x200 mm

Danger



WS2008
150x200 mm
ISSA 4757540
IMPA 337540

Co2 protected area



WS2009
150x200 mm
ISSA 4757545
IMPA 337545

Starts/stops automatically



WS2010
150x200 mm
ISSA 4757557
IMPA 337557

Wet deck



WS2011
150x200 mm
ISSA 4757573
IMPA 337573

High voltage



WS2012
150x200 mm
ISSA 4757610
IMPA 337610

MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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WARNING SIGNS

Electrical hazard



WS2013
150x200 mm
ISSA 4757611
IMPA 337611

Explosion risk



WS2014
150x200 mm
ISSA 4757581
IMPA 337581

Unmanned machinery



WS2015
150x200 mm
ISSA 4757542
IMPA 337542

Battery charging



WS2016
150x200 mm
ISSA 4757543
IMPA 337543

Low oxygen level



WS2017
150x200 mm
ISSA 4757544
IMPA 337544

Under maintenance



WS2018
150x200 mm
ISSA 4757547
IMPA 337547

Overhead working



WS2019
150x200 mm
ISSA 4757548
IMPA 337548

Out of order



WS2020
150x200 mm
ISSA 4757566
IMPA 337566

Slip hazard



WS2021
150x200 mm
ISSA 4757572
IMPA 337572

Slippery surface



WS2022
150x200 mm
ISSA 4757574
IMPA 337574

Mind your head



WS2023
150x200 mm
ISSA 4757570
IMPA 337570

Petroleum vapour



WS2024
150x200 mm
ISSA 4757580
IMPA 337580

Explosive gasses



WS2025
150x200 mm
ISSA 4757582
IMPA 337582

Battery acid



WS2026
150x200 mm
ISSA 4757591
IMPA 337591

Corrosive substance



WS2027
150x200 mm
ISSA 4757596
IMPA 337596

Caustic



WS2028
150x200 mm
ISSA 4757597
IMPA 337597

Toxic



WS2029
150x200 mm
ISSA 4757600
IMPA 337600

Chlorine



WS2030
150x200 mm
ISSA 4757601
IMPA 337601

Harmful vapours

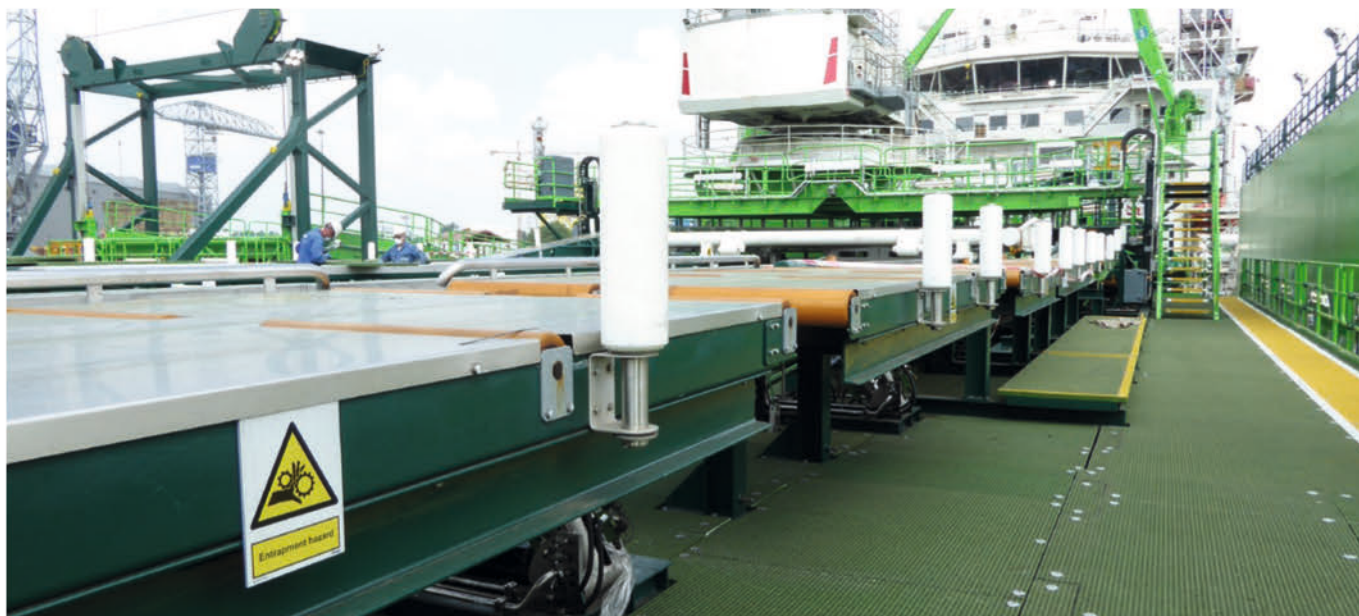


WS2031
150x200 mm
ISSA 4757604
IMPA 337604

380 Volts



WS2032
150x200 mm
ISSA 4757615
IMPA 337615

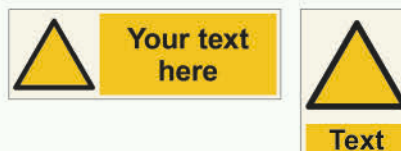


WARNING SIGNS

440 Volts  DANGER 440 volts WS2033 150x200 mm ISSA 4757614 IMPA 337614	3300 Volts  DANGER 3300 volts WS2034 150x200 mm ISSA 4757625 IMPA 337625	Trip hazard  DANGER Trip hazard WS2035 150x200 mm ISSA 4757620 IMPA 337620	Mind the step  DANGER Mind the step WS2036 150x200 mm ISSA 4757623 IMPA 337623
Uneven surface  DANGER Uneven surface WS2037 150x200 mm ISSA 4757629 IMPA 337629	Flammable liquid  DANGER Flammable liquid WS2038 150x200 mm ISSA 4757631 IMPA 337631	Fire risk  DANGER Fire risk WS2039 150x200 mm ISSA 4757630 IMPA 337630	Low flash point  DANGER Low flash point WS2040 150x200 mm ISSA 4757636 IMPA 337636
Loud noise  CAUTION Loud noise WS2041 150x200 mm ISSA 4757650 IMPA 337650	Radiation risk  CAUTION Radiation risk WS2042 150x200 mm ISSA 4757660 IMPA 337660	Ionizing radiation  DANGER Ionizing radiation WS2043 150x200 mm ISSA 4757670 IMPA 337670	Biological hazard  DANGER Biological hazard WS2044 150x200 mm ISSA 4757680 IMPA 337680
Danger of infection  DANGER Of infection WS2045 150x200 mm ISSA 4757681 IMPA 337681	Non-ionising radiation  CAUTION Non-ionising radiation WS2046 150x200 mm ISSA 4757673 IMPA 337673	Danger of death  DANGER Of death WS2047 150x200 mm ISSA 4757688 IMPA 337688	Compressed oxygen  DANGER Compressed oxygen WS2048 150x200 mm ISSA 4757585 IMPA 337585
Open slowly  WARNING Open slowly WS2049 150x200 mm ISSA 4757541 IMPA 337541	Compressed gasses  DANGER Compressed gasses WS2050 150x200 mm ISSA 4757584 IMPA 334050	Danger automatic sliding door  DANGER Automatic sliding door WS2051 150x200 mm	Danger explosion risk  DANGER Explosion risk WS2052 150x200 mm
Space with high temperature  WARNING Space with high temperature WS2053 150x200 mm	Acetylene  ACETYLENE WS5001 300x100 mm ISSA 4757701 IMPA 337701	Oxygen  OXYGEN WS5002 300x100 mm ISSA 4757700 IMPA 337700	Solvents  SOLVENTS WS5003 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
150x150 mm

No smoking



PS0002
150x150 mm
ISSA 4758500
IMPA 338500

No open flame or fire



PS0003
150x150 mm
ISSA 4758501
IMPA 338501

No thoroughfare



PS0004
150x150 mm
ISSA 4758503
IMPA 338503

Do not extinguish with water



PS0005
150x150 mm
ISSA 4758509
IMPA 338509

No drinking water



PS0006
150x150 mm
ISSA 4758505
IMPA 338505

No access for unauthorized



PS0007
150x150 mm
ISSA 4758502
IMPA 338502

No access for industrial vehicles



PS0009

Do not touch



PS0010
150x150 mm
ISSA 4758504
IMPA 338504

No metallic articles or watches



PS0011
150x150 mm

Do not alter the state of the switch



PS0012
150x150 mm
ISSA 4758553
IMPA 338553

Do not obstruct



PS0013
150x150 mm

No activated mobile phone



PS0014
150x150 mm
ISSA 4758510
IMPA 338510

No eating or drinking



PS0015
150x150 mm
ISSA 4758566
IMPA 338566

No climbing



PS0016
150x150 mm

No access with impl. cardiac devices



PS0017
150x150 mm

No access metallic implants



PS0018
150x150 mm

No reaching in



PS0019
150x150 mm

No heavy load



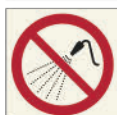
PS0020
150x150 mm

No photography



PS0021
150x150 mm
ISSA 4758692
IMPA 338692

Do not spray with water



PS0022
150x150 mm

No pushing



PS0023
150x150 mm

No sitting



PS0024
150x150 mm

No stepping on surface



PS0025
150x150 mm

Do not use lift in case of fire



PS0026
150x150 mm
ISSA 4756300
IMPA 336300

No dogs



PS0027
150x150 mm

Do not walk or stand here



PS0028
150x150 mm

Do not use this incomplete scaffold



PS0030
150x150 mm













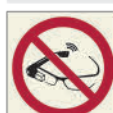





MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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PROHIBITION SIGNS

<p>Do not use device into water</p> <p>PS0031 150x150 mm</p> 	<p>Do not use this lift for people</p> <p>PS0032 150x150 mm</p> 	<p>Do not wear gloves</p> <p>PS0033 150x150 mm</p> 	<p>Do not tie knots in rope</p> <p>PS0034 150x150 mm</p> 
<p>Do not use for face grinding</p> <p>PS0035 150x150 mm</p> 	<p>Do not use for wet grinding</p> <p>PS0036 150x150 mm</p> 	<p>Do not use with hand-held grinding machine</p> <p>PS0037 150x150 mm</p> 	<p>Do not wear metall-studded footwear</p> <p>PS0038 150x150 mm</p> 
<p>No children allowed</p> <p>PS0039 150x150 mm</p> 	<p>Hot works prohibited</p> <p>PS0040 150x150 mm</p> 	<p>Do not set off fireworks</p> <p>PS0041 150x150 mm</p> 	<p>No leaning against</p> <p>PS0042 150x150 mm</p> 
<p>Not for pregnant women</p> <p>PS0043 150x150 mm</p> 	<p>Not for people in state of intoxication</p> <p>PS0044 150x150 mm</p> 	<p>Use of smart glasses prohibited</p> <p>PS0045 150x150 mm</p> 	<p>No running</p> <p>PS0046 150x150 mm</p> 
<p>No swimming</p> <p>PS0047 150x150 mm</p> 			
<p>No snorkelling</p> <p>PS0048 150x150 mm</p> 			
<p>No diving</p> <p>PS0049 150x150 mm</p> 			
<p>No outdoor footwear</p> <p>PS0050 150x150 mm</p> 			

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

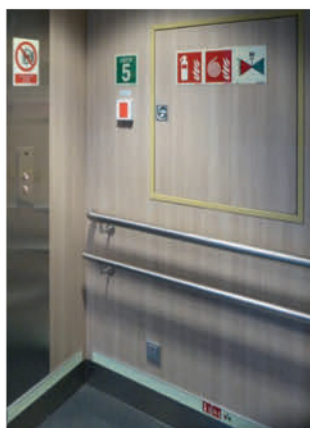


PS0211
150x150 mm

Wearing of helm prohibited



PS0212
150x150 mm



No weapons



PS0213
150x150 mm
ISSA 4752419
IMPA 332419

Do not open the valve of gas cylinder



PS0214
150x150 mm

No smoking



PS0215
150x150 mm

Do not use lift in case of fire



PS2001
150x200 mm

Do not use this lift for people



PS2002
150x200 mm

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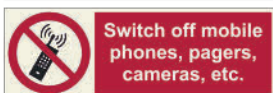
Non-standard sizes and materials other than the standard Pet-X material are available upon request. See page 83 for more information.

PROHIBITION SIGNS

No smoking


PS5001
300x100 mm

Switch off mobile devices


PS5002
300x100 mm

No smoking in bed


PS5003
300x100 mm

Do not drink


PS5004
300x100 mm

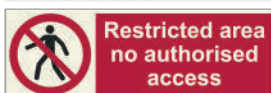
Discharge of oil prohibited


PS5005
300x100 mm

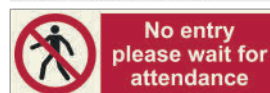
Restricted area


PS5006
300x100 mm

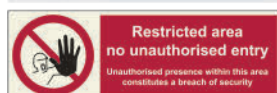
Restricted area


PS5007
300x100 mm
ISSA 4756300
IMPA 336300

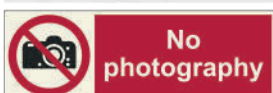
No entry please wait


PS5008
300x100 mm

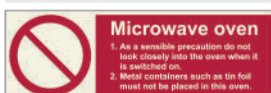
Restricted area


PS5009
300x100 mm
ISSP027
IMPA 338690

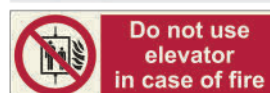
No photography


PS5010
300x100 mm

Microwave oven


PS5011
300x100 mm
ISSA 4758618
IMPA 338618

Do not use elevator...


PS5012
300x100 mm

Smoking forbidden


PS5013
300x100 mm
ISSA 4758531
IMPA 338531

No smoking area


PS5014
300x100 mm
ISSA 4758532
IMPA 338532

No smoking beyond this point


PS5015
300x100 mm
ISSA 4758533
IMPA 338533

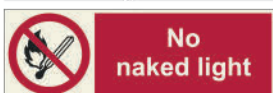
No smoking in elevator


PS5016
300x100 mm
ISSA 4758575
IMPA 338575

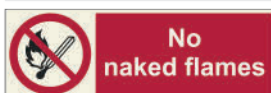
No matches


PS5017
300x100 mm
ISSA 4758534
IMPA 338534

No naked light


PS5018
300x100 mm
ISSA 4758536
IMPA 338536

No naked flames


PS5019
300x100 mm
ISSA 4758537
IMPA 338537

No hot work


PS5020
300x100 mm
ISSA 4758539
IMPA 338539

No entry


PS5021
300x100 mm
ISSA 4758540
IMPA 338540

Crew only


PS5022
300x100 mm

No access to car


PS5023
300x100 mm
ISSA 4758541
IMPA 338541

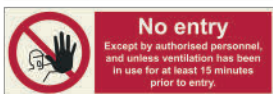
Do not enter


PS5024
300x100 mm
ISSA 4758542
IMPA 338542

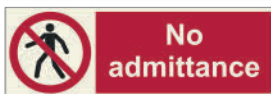
Do not enter pumproom


PS5025
300x100 mm
ISSA 4758546
IMPA 338546

No entry...


PS5026
300x100 mm
ISSA 4758547
IMPA 338547

No admittance


PS5027
300x100 mm
ISSA 4758549
IMPA 338549

No access


PS5028
300x100 mm
ISSA 4758557
IMPA 338557

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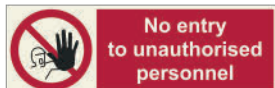
PROHIBITION SIGNS

Authorised personnel only



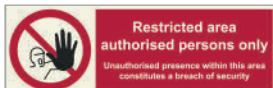
PS5029 ISSA 4758545
300x100 mm IMPA 338545

No entry unauth. pers



PS5030 ISSA 4758544
300x100 mm IMPA 338544

Restricted area...



PS5031 ISSA 4758691
300x100 mm IMPA 338691

Restricted area...



PS5033
300x100 mm

Restricted area...



PS5034
300x100 mm

Restricted area...



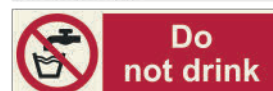
PS5035
300x100 mm

Do not touch



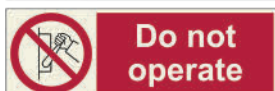
PS5036 ISSA 4758548
300x100 mm IMPA 338548

Do not drink



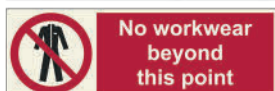
PS5037 ISSA 4758550
300x100 mm IMPA 338550

Do not operate



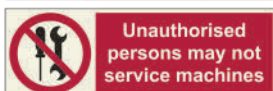
PS5038 ISSA 4758553
300x100 mm IMPA 338553

No workwear beyond this point



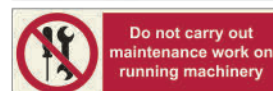
PS5039 ISSA 4758574
300x100 mm IMPA 338574

Unauth. persons may not...



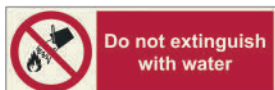
PS5040 ISSA 4758555
300x100 mm IMPA 338555

Do not carry out main...



PS5041 ISSA 4758556
300x100 mm IMPA 338556

Do not extinguish with water



PS5042 ISSA 4758563
300x100 mm IMPA 338563

Do not switch on



PS5043 ISSA 4758552
300x100 mm IMPA 338552

Do not switch off



PS5044 ISSA 4758551
300x100 mm IMPA 338551

Do not touch, men working



PS5045 ISSA 4758564
300x100 mm IMPA 338564

No exit



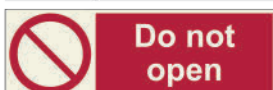
PS5046 ISSA 4758543
300x100 mm IMPA 338543

Keep out



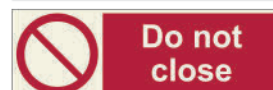
PS5047 ISSA 4758559
300x100 mm IMPA 338559

Do not open



PS5048 ISSA 4758560
300x100 mm IMPA 338560

Do not close



PS5049 ISSA 4758561
300x100 mm IMPA 338561

Do not watch the arc



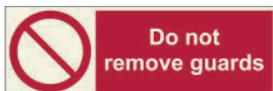
PS5050 ISSA 4758565
300x100 mm IMPA 338565

Do not throw garbage



PS5051 ISSA 4758567
300x100 mm IMPA 338567

Do not remove guards



PS5052 ISSA 4758568
300x100 mm IMPA 338568

Do not use unless...



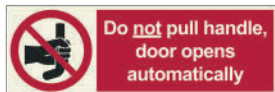
PS5053 ISSA 4758569
300x100 mm IMPA 338569

No smoking, drinking or eating



PS5054 ISSA 4758566
300x100 mm IMPA 338566

Do not pull handle



PS5055
300x100 mm

PROHIBITION SIGNS

Drain opening do not cover/obstruct



PS5101
600x240 mm

Text drain opening do not cover/obstruct



PS5102
600x240 mm

No foreign articles into toilet



PS6001
150x200 mm

No foreign articles into sea



PS6002
150x200 mm

Do not smoke in bed



PS6003
150x200 mm

Do not drink



PS6004
150x200 mm

No smoking



PS6005
150x200 mm

No mobile phones



PS6006
150x200 mm

No access, crew only



PS6007
150x200 mm

Crew only



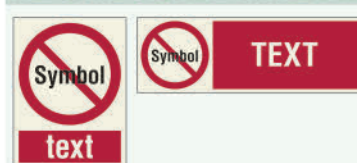
PS6008
150x200 mm

Do not use elevator



PS 6050
150x150 mm

ALL SYMBOLS ARE AVAILABLE WITH ADDITIONAL TEXT



MANDATORY SIGNS

General mandatory



MS0001
150x150 mm
ISSA 4755641
IMPA 335641

Refer to instruction manual



MS0002
150x150 mm

Wear ear protection



MS0003
150x150 mm
ISSA 4755648
IMPA 335648

Wear eye protection



MS0004
150x150 mm
ISSA 4755644
IMPA 335644

Wear head protection



MS0005
150x150 mm
ISSA 4755642
IMPA 335642

Wear safety footwear



MS0006
150x150 mm
ISSA 4755650
IMPA 335650

Wear protective gloves



MS0007
150x150 mm
ISSA 4755649
IMPA 335649

Wear respiratory protection



MS0008
150x150 mm
ISSA 4755647
IMPA 335647

Wear face shield



MS0009
150x150 mm
ISSA 4755645
IMPA 335645

Wear protective clothing



MS0010
150x150 mm
ISSA 4755651
IMPA 335651

Wear mask



MS0011
150x150 mm

Opaque eye protection must be worn



MS0012
150x150 mm

Wear safety harness



MS0013
150x150 mm
ISSA 4755652
IMPA 335652

Wear high-visibility clothing



MS0014
150x150 mm

Wear welding mask



MS0015
150x150 mm

Wear anti-static footwear



MS0016
150x150 mm

Use self-contained breathing appliance



MS0017
150x150 mm

Connect an earth terminal



MS0018
150x150 mm

Disconnect mains plug from electrical outlet



MS0019
150x150 mm

Wash your hands



MS0020
150x150 mm

Use handrail



MS0021
150x150 mm

Use barrier cream



MS0022
150x150 mm

Use footbridge



MS0023
150x150 mm

Disconnect before maintenance or repair



MS0024
150x150 mm

Wear safety belt



MS0025
150x150 mm
ISSA 4755100
IMPA 335100

Use litter bin



MS0026
150x150 mm

Use gas detector



MS0027
150x150 mm

Use this walkway



MS0028
150x150 mm

MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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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
150x150 mm
ISSA 4755101
IMPA 335101

Start engine in launch sequence



MS0038
150x150 mm
ISSA 4755102
IMPA 335102

Lower lifeboat to water in launch sequence



MS0039
150x150 mm
ISSA 4755103
IMPA 335103

Lower liferaft to water in launch sequence



MS0040
150x150 mm
ISSA 4755104
IMPA 335104

Lower rescue boat to water in launch sequence



MS0041
150x150 mm
ISSA 4755105
IMPA 335105

Release falls in launch sequence



MS0042
150x150 mm
ISSA 4755106
IMPA 335106

Start water spray in launch sequence



MS0043
150x150 mm
ISSA 4755107
IMPA 335110

Release lifeboat grips in launch sequence



MS0044
150x150 mm
ISSA 4755109
IMPA 335109

Start air supply in launch sequence



MS0045
150x150 mm
ISSA 4755108
IMPA 335108

Wear personal flotation device



MS0046

Keep under supervision in 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

Entry only with supervisor outside



MS0051
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



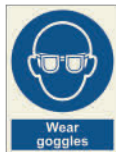
MS0215
150x150 mm

Wear lifejacket



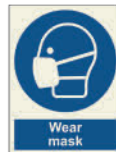
MS2001
150x200 mm

Wear goggles



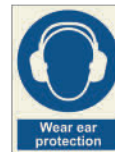
MS2002
150x200 mm
ISSA 4755715
IMPA 335715

Wear mask



MS2003
150x200 mm
ISSA 4755719
IMPA 335719

Wear ear protection



MS2004
150x200 mm
ISSA 4755722
IMPA 335722

Wear gloves



MS2005
150x200 mm
ISSA 4755724
IMPA 335724

Wear protective clothing



MS2006
150x200 mm
ISSA 4755726
IMPA 335726

Wear helmet



MS2007
150x200 mm
ISSA 4755709
IMPA 335709

Hand wash only



MS2008
150x200 mm
ISSA 4755737
IMPA 335737

Head protection



MS2009
150x200 mm
ISSA 4755710
IMPA 335710

Safety helmet area



MS2010
150x200 mm
ISSA 4755733
IMPA 335733

High visibility clothing must be worn



MS2011
150x200 mm
ISSA 4755782
IMPA 335782

Hair covering



MS2012
150x200 mm
ISSA 4755736
IMPA 335736

MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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MANDATORY SIGNS

Eye protection



MS2013
150x200 mm
ISSA 4755712
IMPA 335712

Eye protection in this area



MS2014
150x200 mm
ISSA 4755734
IMPA 335734

Eye protection is provided and must be worn



MS2015
150x200 mm
ISSA 4755730
IMPA 335730

Wear face shield



MS2016
150x200 mm
ISSA 4755716
IMPA 335716

Wear welding protection



MS2017
150x200 mm
ISSA 4755735
IMPA 335735

Face protection in area



MS2018
150x200 mm
ISSA 4755732
IMPA 335732

Wear mask



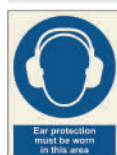
MS2019
150x200 mm
ISSA 4755719
IMPA 335719

Wear respirator



MS2020
150x200 mm
ISSA 4755731
IMPA 335731

Ear protection in area



MS2021
150x200 mm
ISSA 4755721
IMPA 335721

Ear protection



MS2022
150x200 mm
ISSA 4755723
IMPA 335723

Boots must be worn



MS2023
150x200 mm
ISSA 4755725
IMPA 335725

Now wash your hands



MS2024
150x200 mm
ISSA 4755728
IMPA 335728

Guards in position



MS2025
150x200 mm
ISSA 4755729
IMPA 335729

Lifejackets must be worn



MS2026
150x200 mm
ISSA 4755742
IMPA 335742

Lift correctly



MS2028
150x200 mm
ISSA 4755727
IMPA 335727

Keep fire door free



MS2029
150x200 mm

Keep fire door closed and free



MS2030
150x200 mm

Keep closed at sea



MS2031
150x150 mm

Keep locked



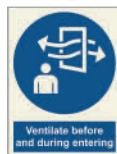
MS2032
150x200 mm

Ensure continuous ventilation



MS2033
150x200 mm

Ventilate before and during entering



MS2034
150x200 mm

Entry only with supervisor outside



MS2035
150x200 mm

Secure hatches



MS2051
150x150 mm

Lower rescue boat



MS2052
150x150 mm

Lower liferaft



MS2053
150x150 mm

Lower lifeboat



MS2054
150x150 mm

Release falls



MS2055
150x150 mm

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MANDATORY SIGNS

Watermist protected area



MS2401
150x200 mm

Hi-Fog protected area



MS2402
150x200 mm

CO₂ protected area



MS2403
150x200 mm
ISSA 4755876
IMPA 335876

Novac 1230 protected area



MS2404
150x200 mm

STAT-X protected area



MS2405
150x200 mm

Sprinkler protected area



MS2406
150x200 mm

Adjust pressure



MS2501
150x200 mm
ISSA 4755874
IMPA 335874

Secure painter



MS2502
150x200 mm
ISSA 4755875
IMPA 335875

Keep shut



MS2503
150x200 mm
ISSA 4755871
IMPA 335871

Keep clear



MS2504
150x200 mm
ISSA 4755870
IMPA 335870

Utensil wash only



MS2505
150x200 mm
ISSA 4755738
IMPA 335738

Door must be kept closed



MS2506
150x200 mm
ISSA 4755872
IMPA 335872

Crew only



MS2507
150x200 mm

Cover all cuts and abrasions



MS2508
150x200 mm
ISSA 4755739
IMPA 335739

Clean up all spillages



MS2509
150x200 mm
ISSA 4755740
IMPA 335740

Please close door quietly



MS2510
150x200 mm
ISSA 4755877
IMPA 335877

People sleeping



MS2511
150x200 mm
ISSA 4755878
IMPA 335878

Food waste only



MS5001
300x100 mm
ISSA 4755691
IMPA 335691

No plastic / food waste



MS5002
300x100 mm
ISSA 4755692
IMPA 335692

Plastic only



MS5003
300x100 mm
ISSA 4755690
IMPA 335690

Think safety



MS5004
300x100 mm
ISSA 4755675
IMPA 335675

Accidents must be reported



MS5005
300x100 mm
ISSA 4755851
IMPA 335851

Wear protective clothes



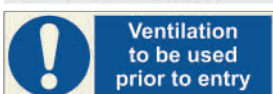
MS5006
300x100 mm
ISSA 4555677
IMPA 335677

Oil spill equipment



MS5007
300x100 mm

Ventilation to be used



MS5008
300x100 mm
ISSA 4755852
IMPA 335852

Incineration only



MS5009
300x100 mm
ISSA 4755693
IMPA 335693

Emergency exit keep clear



MS5010
300x100 mm
ISSA 4755830
IMPA 335830

MANDATORY SIGNS

Man overboard procedures



MS6001
150x200 mm
ISSA 4755902
IMPA 335902

All visitors please report to



MS6002 ISSA 4755855
300x100 mm IMPA 335855

Keep this door locked



MS6003 ISSA 4755825
300x100 mm IMPA 335825

Keep this door locked



MS6004
300x100 mm

Rescue boat launching



MS6011 ISSA 4755110
200x150 mm IMPA 335110

Liferaft launching



MS6012 ISSA 475111
200x150 mm IMPA 335111

Lifeboat launching



MS6013 ISSA 4755112
200x150 mm IMPA 335112

Individual PPE must be worn



MS6021
600x400 mm

Automatic watertight door



MS7001
150x150 mm

Watertight door keep shut



MS7002
150x150 mm
ISSA 4755819
IMPA 335819

Hatch must be kept closed



MS7003
150x150 mm
ISSA 4755817
IMPA 335817

Door must be kept closed



MS7004
150x150 mm
ISSA 4755818
IMPA 335818

Automatic fire door



MS7005
150x150 mm
ISSA 4755808
IMPA 335808

Close in event of fire



MS7006
150x150 mm
ISSA 4755805
IMPA 335805

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
150x150 mm
ISSA 4755800
IMPA 335800

Fire door keep closed



MS7013
150x150 mm
ISSA 4755814
IMPA 335814

Door to be kept locked...



MS7014
150x150 mm
ISSA 4755805
IMPA 335805

Door must be kept closed



MS7015
150x150 mm
ISSA 4755801
IMPA 335801

Close this door at night



MS7016
150x150 mm
ISSA 4755803
IMPA 335803

Gangway keep clear



MS7017
150x150 mm
ISSA 4755812
IMPA 335812

Keep clear



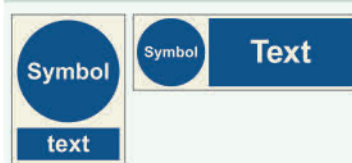
MS7018
150x150 mm

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

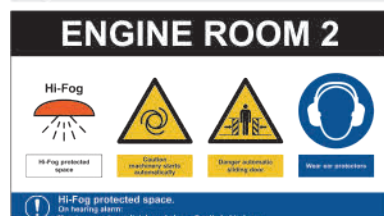
MULTIPLE SIGNS

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

FWD 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

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- Retro-Reflective

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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



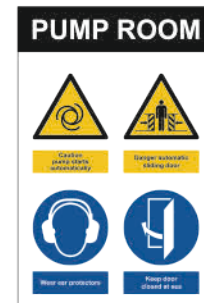
MU0032 250x140 mm
500x280 mm

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

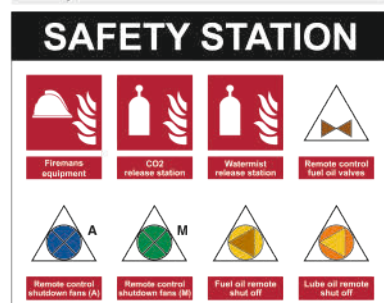
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- Retro-Reflective

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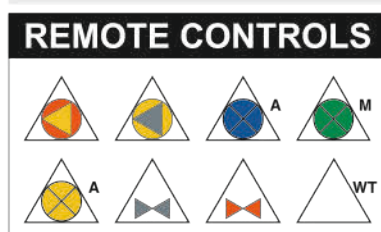
MULTIPLE SIGNS

Safety station



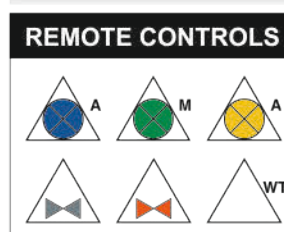
MU0051 250x200 mm
500x400 mm

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
300x200 mm IMPA 333101

Remove gas cylinders



MU5003 ISSA 4753102
300x200 mm IMPA 333102

Use ventilation



MU5004 ISSA 4753103
300x200 mm IMPA 333103

Radar, satcom and radio-equipment



MU5005 ISSA 4753109
300x200 mm IMPA 333109

Danger keep out



MU5006 ISSA 4753112
300x200 mm IMPA 333112

Danger steep ladder



MU5007 ISSA 4753116
300x200 mm IMPA 333116

Danger explosion risk



MU5101
300x200 mm

Caution battery compartment



MU5102
300x200 mm

Danger confined space



MU5103 ISSA 4753110
300x200 mm IMPA 333110

Danger hazardous area



MU5104 ISSA 4753114
300x200 mm IMPA 333114

Do not throw garbage overboard



MU5105 ISSA 4753115
300x200 mm IMPA 333115

No open lights No smoking



MU5106 ISSA 4758522
300x200 mm IMPA 338522

Petroleum spirit highly flammable



MU5107 ISSA 4753105
300x200 mm IMPA 333105

MULTIPLE SIGNS

Danger gas



MU5108 ISSA 4753104
300x200 mm IMPA 333104

Danger petroleum spirit highly flam



MU5109
300x200 mm

Warning crude oil



MU5110 ISSA 4753106
300x200 mm IMPA 333106

Danger asbestos



MU5112 ISSA 4753113
300x200 mm IMPA 333113



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MULTIPLE SIGNS

Refrigerated space



MU9001 ISSA 4753122
300x300 mm IMPA 333122

Gas bottle store



MU9002 ISSA 4753125
300x300 mm IMPA 333125

Fridge machinery



MU9003 ISSA 4753129
300x300 mm IMPA 333119

Battery locker



MU9004 ISSA 4753123
300x300 mm IMPA 333123

Paint store



MU9005 ISSA 4753126
300x300 mm IMPA 333126

Emergency generator



MU9006 ISSA 4753135
300x300 mm IMPA 333135

Galley



MU9007 ISSA 4753124
300x300 mm IMPA 333124

Switch gear



MU9008 ISSA 4753127
300x300 mm IMPA 333127

Steering gear



MU9009 ISSA 4753136
300x300 mm IMPA 333136

Machinery space



MU9010 ISSA 4753111
300x300 mm IMPA 333111

Machinery space



MU9011 ISSA 4753111
300x300 mm IMPA 333111

Forecastle space



MU9012 ISSA 4753128
300x300 mm IMPA 333128

MULTIPLE SIGNS

Pump room



MU9013 ISSA 4753137
300x300 mm IMPA 333137

Chemical locker



MU9014
300x300 mm

Security notice



MU9016 ISSA 4753139
300x300 mm IMPA 333139

Security notice



MU9017 ISSA 4753138
300x400 mm IMPA 333138

Warning dangerous cargo



MU9018 ISSA 4753014
400x600 mm IMPA 333014

MATERIAL SPECIFICATIONS & AVAILABLE SIZES

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- Retro-Reflective

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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

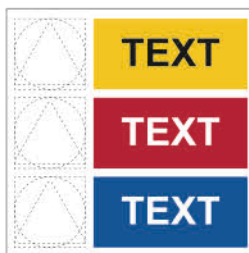
Multiple signs - Untitled

2 Multiple signs horizontal untitled



MH0102U 150x100 mm
300x200 mm

3 Multiple signs horizontal untitled



MH0302U 150x150 mm
300x300 mm

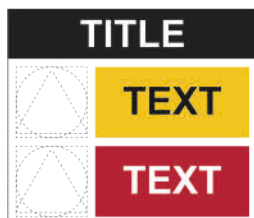
4 Multiple signs horizontal untitled



MH0104U 150x200 mm
300x400 mm

Multiple signs - Titled

2 Multiple signs horizontal titled



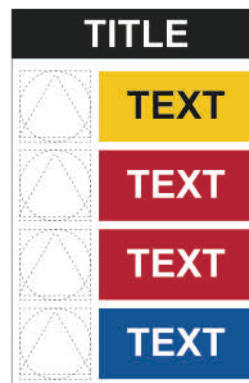
MH0102T 150x130 mm
300x260 mm

3 Multiple signs horizontal titled



MH0103T 150x180 mm
300x360 mm

4 Multiple signs horizontal titled



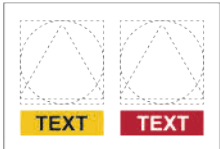
MH0104T 150x230 mm
300x460 mm

MULTIPLE SIGNS CUSTOM MADE

CUSTOM MADE VERTICAL

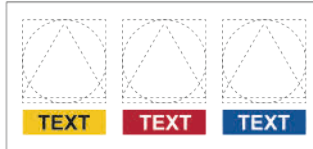
Multiple signs - Untitled

2 Multiple signs vertical untitled



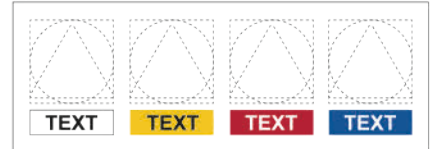
MV0201U 130x90 mm
260x180 mm

3 Multiple signs vertical untitled



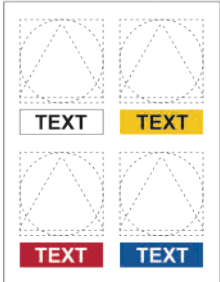
MV0301U 190x90 mm
380x180 mm

4 Multiple signs vertical untitled



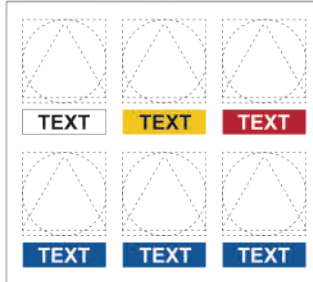
MV0401U 250x90 mm
500x180 mm

2x2 Multiple signs vertical untitled



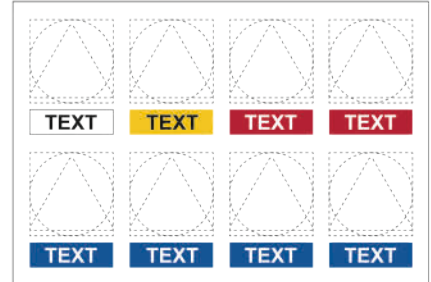
MV0202U 130x170 mm
260x340 mm

3x2 Multiple signs vertical untitled



MV0302U 190x170 mm
380x340 mm

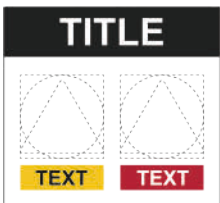
4x2 Multiple signs vertical untitled



MV0402U 250x170 mm
500x340 mm

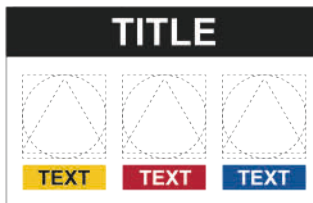
Multiple signs - Titled

2 Multiple signs vertical titled



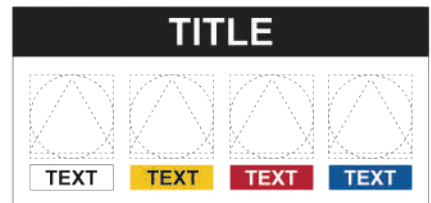
MV0201T 130x120 mm
260x240 mm

3 Multiple signs vertical titled



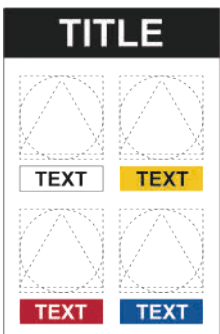
MV0301T 190x120 mm
380x240 mm

4 Multiple signs vertical titled



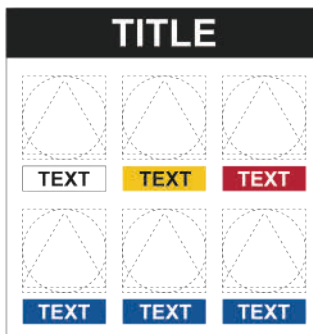
MV0401T 250x120 mm
500x240 mm

2x2 Multiple signs vertical titled



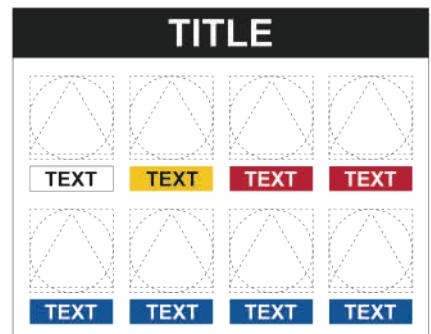
MV0202T 130x200 mm
260x400 mm

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 45 t



CD3021
400x400 mm

Maximum weight on request



CD3029
400x400 mm

Axle weight 21 t



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

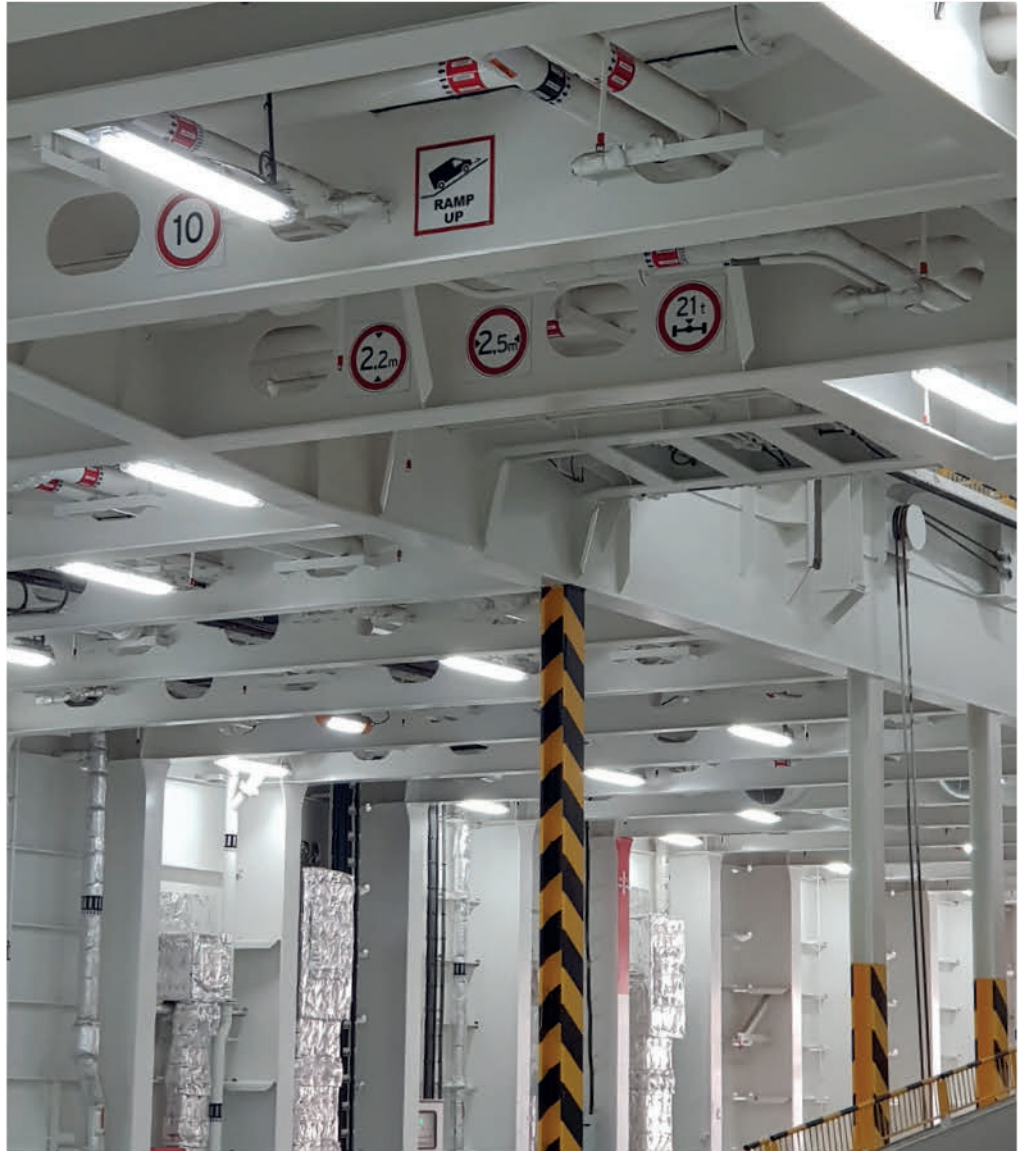
Smoking prohibited



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.

SAFETY INSTRUCTIONS CABIN

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 signaling:

- Arrows and distances 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 signaling:

- 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 signaling:

- 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 stations on deck 0.
- Immersion suits are stored in your cabin.

Learn to find the way to your assembly station!

ASSEMBLY STATION OVERVIEW

ASSEMBLY STATIONS LOCATED ON DECK 1

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 verbal "MAN OVERBOARD", every 10 seconds

Abandon ship alarm

Verbal 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 signal is heard, then wait in your cabin until you receive further instructions from the public address system.
- The direction sign to 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 an exit.

How to wear your lifejacket

1. Unhook lifejacket
2. Pull the lifejacket over the head
3. Press the handle and tighten the waist belt in a horizontal position
4. Unhook and swing ship handle and bring mouthpiece up between the legs and behind the back

Report all incidents, accidents or potential hazards.

SAFETY INSTRUCTION

General Alarm

7 short and 1 long blast

Abandon Alarm

3 long blasts followed by verbal "ABANDON SHIP", every 10 seconds

Fire Alarm

Continuous alarm sounding

Man overboard

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

Abandon ship alarm

Verbal 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 signal is heard, then wait in your cabin until you receive further instructions from the public address system.
- The direction sign to 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 an exit.

How to wear your lifejacket

1. Unhook lifejacket
2. Pull the lifejacket over the head
3. Press the handle and tighten the waist belt in a horizontal position
4. Unhook and swing ship handle and bring mouthpiece up between the legs and behind the back

Report all incidents, accidents or potential hazards.

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.

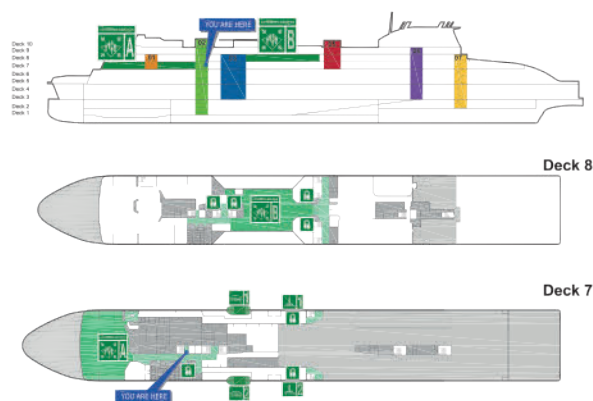
The Safety Instructions can be designed in the company's corporate style with their logos or in a neutral ISO recommended style.

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
- Low location Lighting system
- Embarkation station lifeboat
- Embarkation station for MES, Marine Evacuation System
- Lifejacket
- 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 fasten 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
300x150 mm IMPA 332703

Security level 2



IS0009 ISSA 4752703
300x150 mm IMPA 332703

Security level 3



IS0010 ISSA 4752703
300x150 mm IMPA 332703

Warning



IS1010
300x100 mm

All visitors please report



IS1011 ISSA 4752924
300x200 mm IMPA 332924

All visitors report to security office



IS1012 ISSA 4752824
300x200 mm IMPA 332824

Ship security office



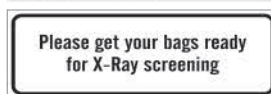
IS1013 ISSA 4752892
300x100 mm IMPA 332895

ID control



IS1014
300x100 mm

X-ray screening



IS1015
300x100 mm

Metal detector



IS1016
300x100 mm

Reception



IS1017 ISSA 4752907
300x100 mm IMPA 332907

Restricted area



IS1018
300x100 mm

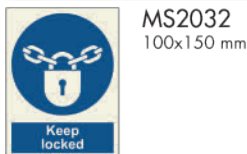
Direction arrow (90°)



Direction arrow (45°)



Keep locked



All visitors please report to



MS6002 ISSA 4755855
300x100 mm IMPA 335855

Keep this door locked



MS6003 ISSA 4755825
300x100 mm IMPA 335825

Keep this door locked

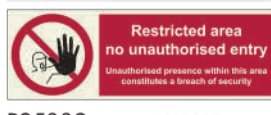


MS6004
300x100 mm

No access for unauthorized

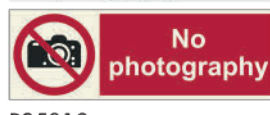


Restricted area



PS5009 ISPS027
300x100 mm IMPA 338690

No photography



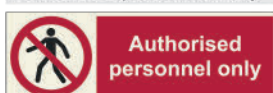
PS5010
300x100 mm

Do not enter



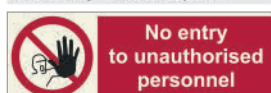
PS5024 ISSA 4758542
300x100 mm IMPA 338542

Authorised personnel only



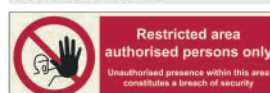
PS5029 ISSA 4758545
300x100 mm IMPA 338545

No entry unauth. pers



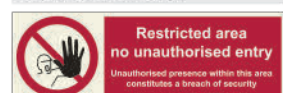
PS5030 ISSA 4758544
300x100 mm IMPA 338544

Restricted area...



PS5031 ISSA 4758691
300x100 mm IMPA 338691

Restricted area...



PS5032
300x100 mm

ISPS SIGNS

Restricted area



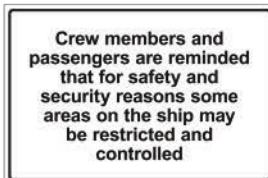
IS1040
300x200 mm

Restricted area



IS1041 ISSA 4758695
300x200 mm IMPA 338695

Crew member



IS1042
300x200 mm

Ship complies with IMO ISPS code



IS1043 ISSA 4753140
300x200 mm 900x450 mm IMPA 333140

VDR voice recording



IS3001
150x150 mm
ISSA 4752889
IMPA 332889

CCTV surveillance



IS3002
150x150 mm
ISSA 4752896
IMPA 332896

CCTV in operation



IS3003
150x150 mm
ISSA 4752974
IMPA 332974

Security notice



MU 9016 ISSA 4753139
300x300 mm IMPA 333139

Security notice



MU 9017 ISSA 4753138
300x400 mm 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
300x400 mm IMPA 331502

Enclosed spaces



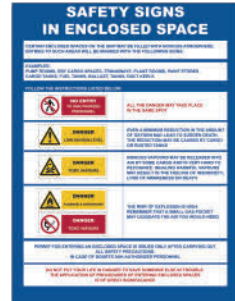
TP0003 ISSA 4751017
300x400 mm IMPA 331517

Liferaft launched with a davit



TP0004 ISSA 4751045
300x400 mm IMPA 331545

Safety signs in enclosed space



TP0005 ISSA 4751007
300x400 mm IMPA 331507

Oil spill prevention



TP0006 ISSA 4751008
300x400 mm IMPA 331508

Oil spill actions



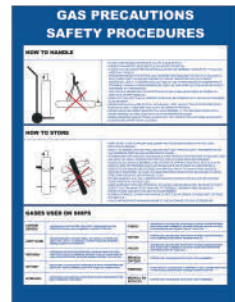
TP0007 ISSA 4751023
300x400 mm IMPA 331523

Types of fire extinguishers



TP0008 ISSA 4751027
300x400 mm IMPA 331527

Gas precautions



TP0009 ISSA 4751032
300x400 mm IMPA 331532

Lifeboat launching



TP0010 ISSA 4751001
300x400 mm IMPA 331501

Free fall lifeboat



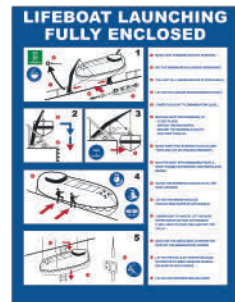
TP0011 ISSA 4751020
300x400 mm IMPA 331520

Launching lifeboats



TP0012 ISSA 4751005
300x400 mm IMPA 331505

Enclosed lifeboat launching



TP0013 ISSA 4751004
300x400 mm IMPA 331504

Abandon ship



TP0014 ISSA 4751016
300x400 mm IMPA 331516

Serious injury / shock



TP0015 ISSA 4751009
300x400 mm IMPA 331509

Enclosed space and tank rescue



TP0016 ISSA 4751017
300x400 mm IMPA 331517

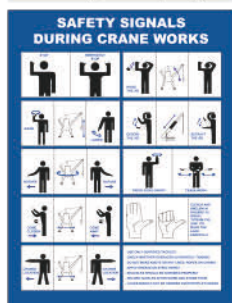
Man overboard



TP0017 ISSA 4751015
300x400 mm IMPA 331515

IMO POSTERS

Craneage safety signals



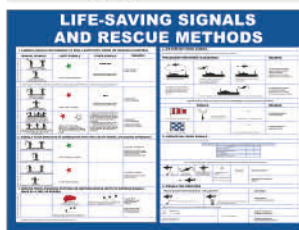
TP0018 ISSA 4751030
300x400 mm IMPA 331530

IMO safety symbols



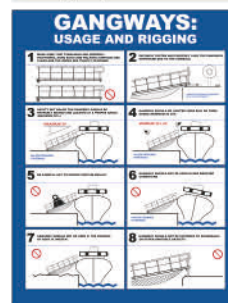
TP0019 ISSA 4751036
300x400 mm IMPA 331536

Life-saving signals and rescue...



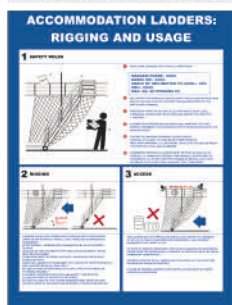
TP0020 ISSA 4751058
400x300 mm IMPA 331558

Gangways



TP0021 ISSA 4751014
300x400 mm IMPA 331514

Accommodation ladders



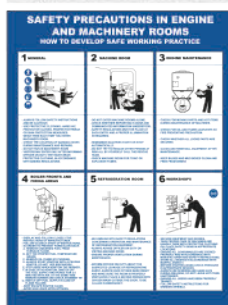
TP0022 ISSA 4751013
300x400 mm IMPA 331513

Food hygiene on board



TP0023 ISSA 4751044
300x400 mm IMPA 331544

Engine and machine room safety



TP0024 ISSA 4751035
300x400 mm IMPA 331535

Outboard or aloft work jobs



TP0025 ISSA 4751025
300x400 mm IMPA 331525

Refuelling



TP0026 ISSA 4751022
300x400 mm IMPA 331522

Personal protection gear



TP0027 ISSA 4751028
300x400 mm IMPA 331528

Signals; light, shape and sound



TP0028 ISSA 4751034
300x400 mm IMPA 331534

Hot work



TP0029 ISSA 4751024
300x400 mm IMPA 331524

Fire and explosion vital actions



TP0030 ISSA 4751031
300x400 mm IMPA 331531

Self contained breathing app.



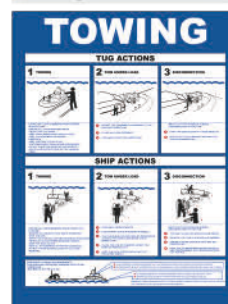
TP0031 ISSA 4751047
300x400 mm IMPA 331547

Safe welding and cutting



TP0032 ISSA 4751033
300x400 mm IMPA 331533

Towing



TP0033 ISSA 4751021
300x400 mm IMPA 331521

IMO POSTERS

Immersion suit donning



TP0034
300x400 mm

Lifejacket instructions



TP0035
300x400 mm

Garbage overboard



TP0036
300x400 mm

ISSA 4751042
IMPA 331542

Mooring procedures



TP0037
300x400 mm

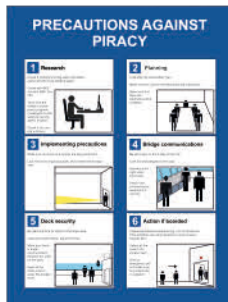
ISSA 4751064
IMPA 331564

Fast rescue boat operation



TP0038
300x400 mm

Precautions against piracy



TP0039
300x400 mm

IMO fire control symbols



TP0040
300x400 mm

ISSA 4751057
IMPA 331557

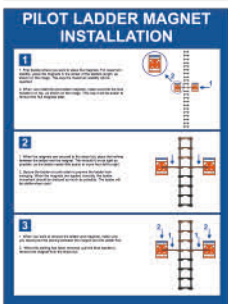
Pipe marking ISO14726



TP0041
300x400 mm

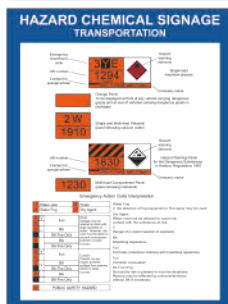
ISSA 4751066
IMPA 331566

Pilot ladder magnet installation



TP0043
300x400 mm

Hazard chemical signage



TP0044
300x400 mm

ISSA 4751044
IMPA 331544

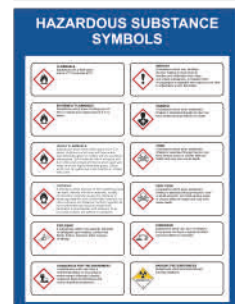
Hazard diamonds



TP0045
300x400 mm

ISSA 4751048
IMPA 331548

Hazard substance symbols



TP0046
300x400 mm

ISSA 4751049
IMPA 331549

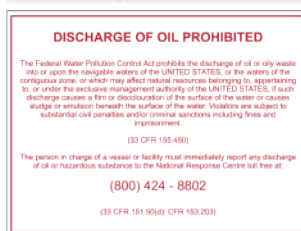
Regulations garbage disposal



TP0048
300x400 mm

ISSA 4751029
IMPA 331529

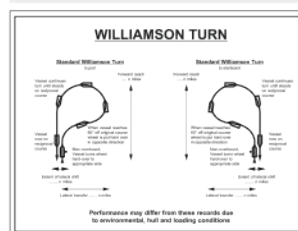
Oil discharge USA



TP0049
400x300 mm

ISSA 4751043
IMPA 331543

Williamson turn

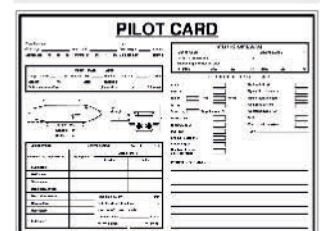


TP0050
400x300 mm

ISSA 4751065
IMPA 331565

According to IMO A.601(15)

Pilot card

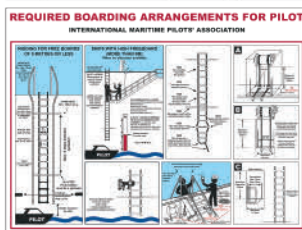


TP0051
400x300 mm

ISSA 4751011
IMPA 331511

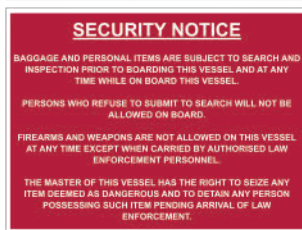
IMO POSTERS

Required boarding arrangements



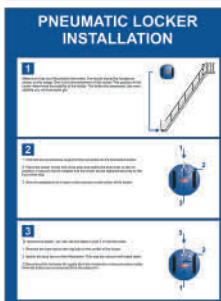
TP0052 ISSA 4751526
400x300 mm IMPA 331526

Visitors safety instructions



TP0053
400x300 mm

Pneumatic locker installation



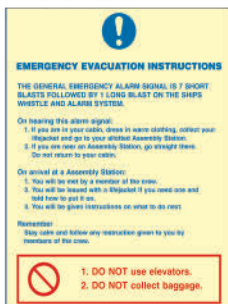
TP0054
300x400 mm

Flag chart



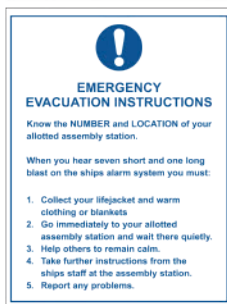
TP0057
300x400 mm

Emergency evacuation instructions



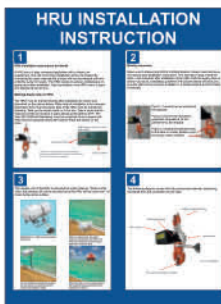
TP0058 ISSA 4755900
300x400 mm IMPA 335900

Emergency instructions passengers



TP0059 ISSA 4755903
300x400 mm IMPA 335903

HRU installation instruction



TP0060
300x400 mm

Helicopter operations landing



TP0061
300x400 mm

Vessel induction/familiarisation



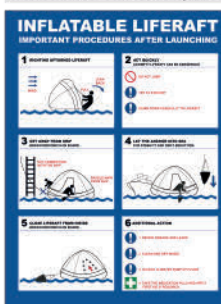
TP0062
300x400 mm

Helicopter operations winching



TP0063
300x400 mm

Inflatable liferaft procedures



TP0064
300x400 mm

Fire isolator instruction



TP0065
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
300x400 mm IMPA 331542

Map wheelhouse 1/2



TP1002 ISSA 4751010
300x400 mm IMPA 331510

Map wheelhouse 2/2



TP1003 ISSA 4751010
300x400 mm IMPA 331510

Emergency muster list



TP1004 ISSA 4751012
300x400 mm IMPA 331512

Drug warning notice



TP1005 ISSA 4751037
200x300 mm IMPA 331537

Drug and alcohol warning notice



TP1006 ISSA 4751039
200x300 mm IMPA 331539

Warning notice



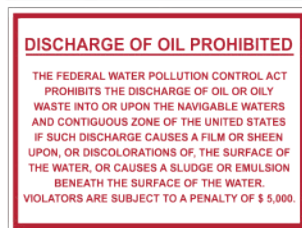
TP1007 ISSA 4751041
200x300 mm IMPA 331541

Rescue boat launching procedure



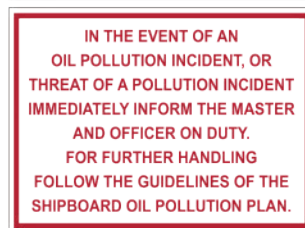
TP1008 ISSA 4751001
400x300 mm IMPA 331501

Discharge of oil prohibited



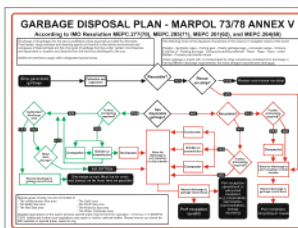
TP1009 ISSA 4751043
400x300 mm IMPA 331543

Oil pollution event



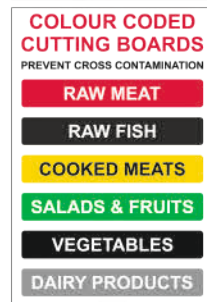
TP1010
400x300 mm

Garbage disposal plan



TP1011 ISSA 4751029
400x300 mm

Cutting boards
























TP1012
300x400 mm

Discharge of garbage



TP1013
300x400 mm

TIE TAGS

Caution  TT 0001 70x100mm ISSA 4752501 IMPA 332501	Defective equipment  TT 0002 70x100mm ISSA 4752502 IMPA 332502	Asbestos  TT 0003 70x100mm ISSA 4752503 IMPA 332503	Current on  TT 0004 70x100mm ISSA 4752504 IMPA 332504
Harmful  TT 0005 70x100mm ISSA 4752505 IMPA 332505	Irritant  TT 0006 70x100mm ISSA 4752506 IMPA 332506	Corrosive  TT 0007 70x100mm ISSA 4752507 IMPA 332507	Flammable  TT 0008 70x100mm ISSA 4752508 IMPA 332508
Explosive  TT 0009 70x100mm ISSA 4752509 IMPA 332509	Poison  TT 0010 70x100mm ISSA 4752510 IMPA 332510	Gas  TT 0011 70x100mm ISSA 4752541 IMPA 332541	
Do not close valve  TT 0012 70x100mm ISSA 4752520 IMPA 332520	Do not open valve  TT 0013 70x100mm ISSA 4752521 IMPA 332521	Do not close  TT 0014 70x100mm ISSA 4752522 IMPA 332522	Do not open  TT 0015 70x100mm ISSA 4752523 IMPA 332523
Do not move  TT 0016 70x100mm ISSA 4752524 IMPA 332524	Do not start  TT 0017 70x100mm ISSA 4752525 IMPA 332525	Do not use  TT 0018 70x100mm ISSA 4752526 IMPA 332526	Do not start, men working  TT 0019 70x100mm ISSA 4752527 IMPA 332527
Do not use, out of order  TT 0020 70x100mm ISSA 4752528 IMPA 332528	Do not operate  TT 0021 70x100mm ISSA 4752530 IMPA 332530	Do not touch  TT 0022 70x100mm ISSA 4752531 IMPA 332531	

GENERAL INFORMATION

THE TIE TAGS ARE DELIVERED IN PACKS OF 10 PCS
THE STANDARD SIZE IS 70 X 100 MM

PUBLIC INFORMATION SIGNS

Toilets female



PI0001
150x150 mm
ISSA 4752409
IMPA 332409

Toilets male



PI0002
150x150 mm
ISSA 4752410
IMPA 332410

Toilets unisex



PI0003
150x150 mm
ISSA 4752408
IMPA 332408

Toilets - disabled / full accessible



PI0004
150x150 mm
ISSA 4752401
IMPA 332401

Reception or check-in



PI0005
150x150 mm

Information



PI0006
150x150 mm

Meeting point



PI0007
150x150 mm

Cinema



PI0008
150x150 mm

Nursery or baby care



PI0009
150x150 mm
ISSA 4752443
IMPA 332443

Business center



PI0010
150x150 mm

Teaching room



PI0011
150x150 mm

Meeting room or conference facilities



PI0012
150x150 mm

Lounge or waiting area



PI0013
150x150 mm

Cupboard



PI0014
150x150 mm

Trash box or litter bin



PI0015
150x150 mm

Restaurant



PI0016
150x150 mm

Refreshments - Coffee or buffet



PI0017
150x150 mm

Surveillance camera



PI0018
150x150 mm

Accommodation facilities or hotel



PI0019
150x150 mm

Shop or shopping



PI0020
150x150 mm

Pharmacy



PI0021
150x150 mm

Bar



PI0022
150x150 mm

Snack machine



PI0023
150x150 mm

Smoking area or smoking allowed



PI0024
150x150 mm

Sauna



PI0025
150x150 mm

Hospital



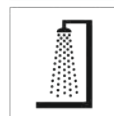
PI0026
150x150 mm

Drinking water



PI0027
150x150 mm

Shower



PI0028
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

Lost and found property



PI0029
150x150 mm

Baggage lockers or coin lockers



PI0030
150x150 mm

Stairs



PI0031
150x150 mm

Lift



PI0032
150x150 mm

Accessible lift



PI0033
150x150 mm

Direction arrow (90°)



PI1001
150x150 mm

Direction arrow (45°)



PI1002
150x150 mm

Toilet instructions



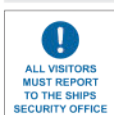
PI2001
150x150 mm

Hand dryer



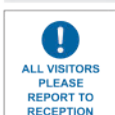
PI2002
150x150 mm

All visitors report to security office



PI5001
150x150 mm

All visitors report to reception



PI5002
150x150 mm

No access



PI5003
150x150 mm
ISSA 4752421
IMPA 332421



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



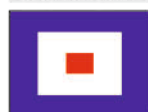
FL021
1500x1000 mm
ISSA 371531
IMPA 491335

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

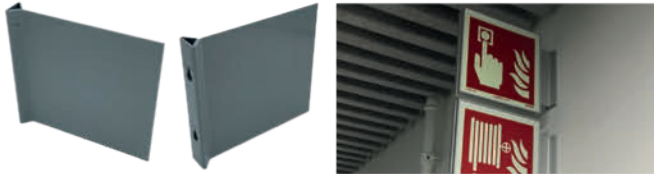
Quality pickled and passivated, also for use in salt water circumstances. To combine with Stainless Steel railingbrackets. Lay-out and size available on request.



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)

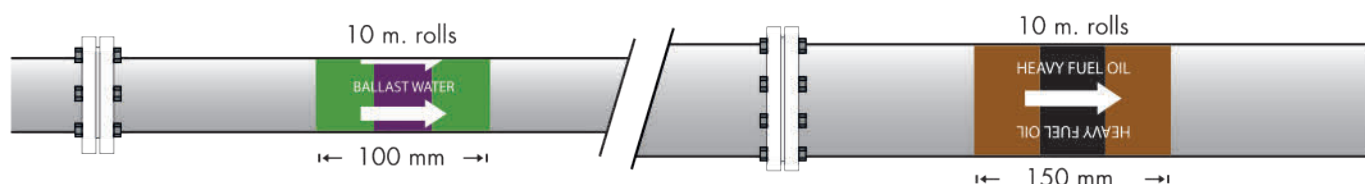
This pipe marking tape is a standard performance vinyl sandwich manufactured according to 3M™ MCS™ (Matched Component System™) production specifications. This tape comes with a gloss laminated finish and can be used outdoor and indoor in various types of environments.



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	ARTICLE NUMBER	COLOR	DESCRIPTION	ARTICLE 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	PMT050AR			

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

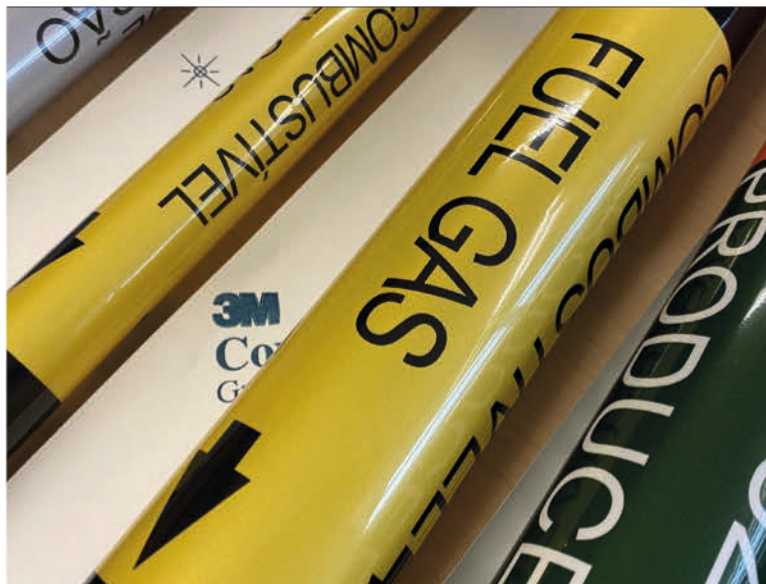


PRECOILED PIPE MARKERS – REMOVABLE POLYESPRO® PIPE MARKING

Removable PolyesPro® Pipe Marking film is a high performance non-PVC polyester sandwich, manufactured according to 3M™ production specifications, for the marking of pipes and pipeline systems. With a 3M™ base polyester material printed with LED UV Inkjet on a 3M™ Configured Printer and a 3M™ Protective Laminate, this Pipe Marking product can be used in demanding environments, and with a long expected lifetime. Legends can include warning signs, GHS symbol, pipe origin and destination, line number, QR and bar codes in addition to pipe contents.

The PreCoiled pipe markers allow for very quick installation aboard ships, platforms and industrial plants.

This product features a high-quality adhesive strip for fast and effective wrapper attachment.



Benefits of PreCoiled pipe markers

- Developed for general purpose pipe identification harsh conditions for application in maritime, offshore, petro-chemical & refinery industry
- Can be used on dirty, oily, greasy or rough surfaced piping systems
- Meets various Standards like ISO 20560, DIN, ASME / ANSI Standard, BSI, etc.
- Precoiled PolyesPro® pipe markers are UV resistant , durable and can be replaced and reused.



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.

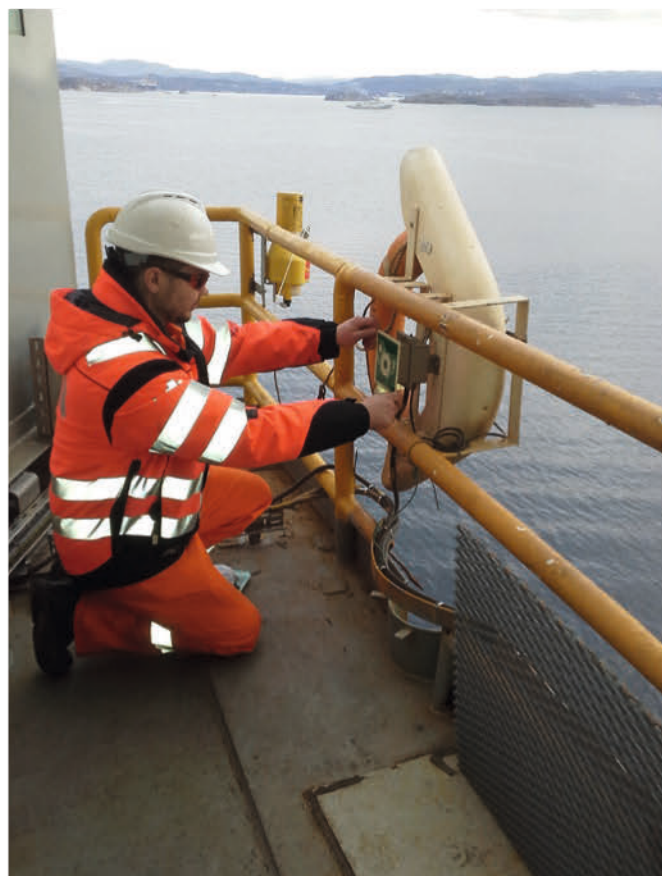
Our safety signage portfolio consists of:

- 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-NOCT[™] 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.

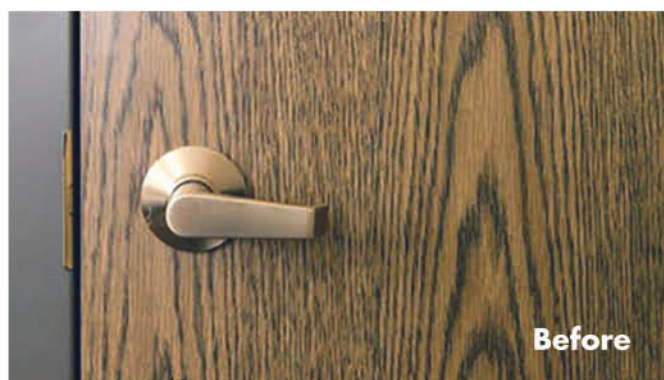
Besides their aesthetic value, these surface finishes are durable, with strong adhesion, allowing your interior to be furnished to the highest possible standard. Existing furnishings can be kept and renewed rather than replaced, meaning you can redesign your ships' general areas or corridors in minimal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

Incorporate the latest trends with Architectural Finishes

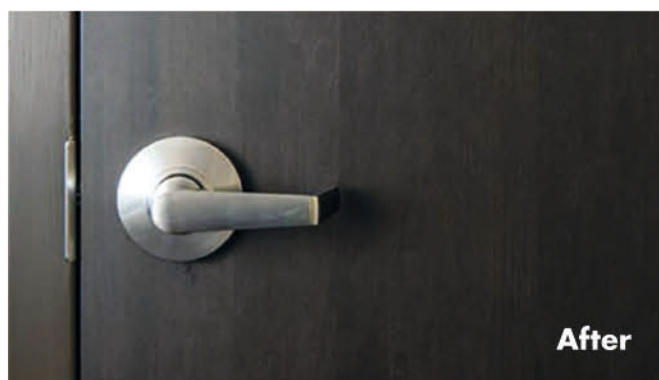
With the addition of 153 new patterns that incorporate the latest trends, 3M[™] DI-NOCT[™] Architectural Finishes are now available in more than 800 different designs, enabling almost infinite creativity. Our rich assortment of finishes offers the warmth of wood grain, the texture of traditional Japanese 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.



Before



After

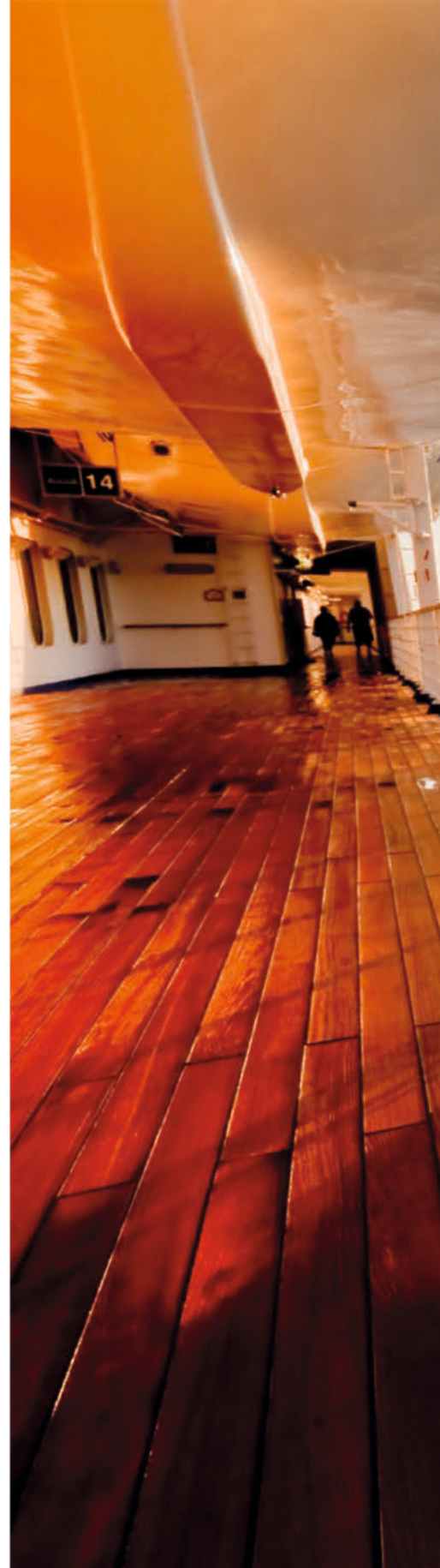
T-ISS Safety Suppliers
Helmkamp 32 - 34
7091 HR Dinxperlo
The Netherlands

T +31 (0) 315 65 60 60

F +31 (0) 315 65 60 63

E sales@t-iss.com

I www.t-iss.com / solastape.com



Visit our website:
T-ISS.COM

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