

the complete signage solution



**ALLSIGNS**





# IMO Symbols With Text



Lifeboat

4100 JJ &  
4123 MM



Rescue boat

4101 JJ



Liferaft

4102 JJ



Davit launched liferaft

4103 JJ



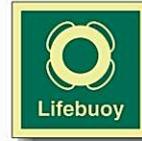
Embarkation ladder

4104 JJ



Evacuation slide

4105 JJ



Lifebuoy

4106 JJ & MM



Lifebuoy with line

4107 JJ



Lifebuoy with light

4108 JJ



Lifebuoy with light and smoke

4109 JJ



Lifejacket

4110 GG, JJ & MM & PR 4122 EE



Childs lifejacket

4111 JJ



Immersion suit

4112 JJ



Survival craft portable radio

4113 JJ



EPIRB

4114 JJ



Radar transponder

4115 JJ (SART)



Survival craft distress signals

4116 JJ



Rocket parachute flares

4117 JJ



Line-throwing appliance

4118 JJ



Assembly station

4119 JJ & 4124 MM



Evacuation chute

4120 JJ



Stretcher

4121 JJ



Thermal protective aid

4125 JJ



Anti-exposure suit

4126 JJ



Medical locker

4127 JJ



EEBD

4129 JJ



Emergency telephone

4131 JJ



Fasten seat belts

5100 JJ



Secure hatches

5101 JJ



Start engine

5102 JJ



Lower lifeboat

5103 JJ



Lower liferaft

5104 JJ



Lower rescue boat

5105 JJ



Release falls

5106 JJ



Start water supply

5107 JJ



Start air supply

5108 JJ



Release gripes

5109 JJ



4210 JF & MJ



4211 JF & MJ



4212 JF & MJ



4213 JF & MJ



4214 JF & MJ



4215 JF & MJ



4200 JF & MJ



4201 JF & MJ



4202 JF & MJ



4203 JF & MJ



4204 JF & MJ



4205 JF & MJ



4206 JF & MJ



4207 JF & MJ



4208 JF & MJ



4209 JF & MJ

**Non standard IMO sign**



PV 4128 JJ



4050 JJ &  
4073 MM



4051 JJ



4052 JJ



4053 JJ



4054 JJ



4055 JJ



4056 JJ



4057 JJ



4058 JJ



4059 JJ



4060 JJ &  
4072 MM



4061 JJ



4062 JJ



4063 JJ



4064 JJ



4065 JJ  
(SART)



4066 JJ



4067 JJ



4068 JJ



4069 JJ &  
4074 MM



4070 JJ



4071 JJ



4075 JJ



4076 JJ



4150 JJ



4078 JJ



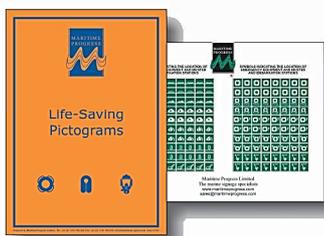
4153 JJ



4420  
GG & JJ



4421  
GG & JJ



See page 56 for Life Saving Appliance pictograms suitable for updating existing drawings.

We are pleased to add IMO safety equipment symbols without text to our product range. The standard IMO designs may be used without text and in this format can be used on vessels where English is not the first language of the passengers and crew.

## Regulations

SOLAS, Chapter III, Regulation 20.10 requires signs to identify the locations of Life Saving equipment in accordance with recommendations of IMO. Reference should be made to the symbols related to Life Saving Appliances and arrangements adopted by IMO by resolution A.760(18). MSC / Circ. 777 advises: "Assembly station" has the same meaning as "Muster station".

## Installation

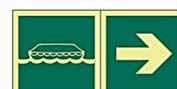
The appropriate symbol should be used to identify each item of life saving equipment or the locker in which it is stowed.

Muster/assembly stations and embarkation stations (lifeboat symbol) should be identified with the appropriate sign qualified with an identification number or letter, to the right of the sign (see page 2). Directions to each station can be marked using the way finding signage on pages 6, 7 and 8 or by using a muster/assembly station or lifeboat symbol plus an arrow. 'MM' size (300x300) muster/assembly station and lifeboat signs are available, along with 'MJ' (300x150) size numbers and letters for clearer identification within large areas. GG & EE Lifejacket signs can be used in cabins to mark lockers where these items are stowed.

### Example



Muster Station  
Number 2



Direction to  
Embarkation Station



4151 JJ



4152 JJ



4154 JJ



4170 KJ



4427 JM



4130 LJ



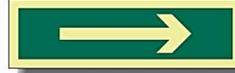
4150 JJ & KK



4153 JJ



4155 JJ



4426 FL



4421 GG



4420 GG



4130 GM



4171 GM



4172 GM



4173 GM



4174 GM



4175 GM



4176 GM



4177 GM



4178 GM



4179 GM



4180 GM



4181 GM



4182 GM



4183 GM



4184 GM



4185 GM



4186 GM



4187 GM



4195 GM



4188 GM



4189 GM

## Information

Safety signs are required to complement or expand the scope of officially designated signage. Many of the above signs will be required by various Registration and Classification Authorities to cover safety and life saving equipment.

With increasing numbers of new vessel and safety equipment appearing, special signage is always required. We are happy to manufacture signage to customers designs in the event of our standard range not meeting specific requirements

associated with stowage of lifejackets in high speed ferry cabins.

## Installation

All first aid points and first aid storage should be marked, as should emergency telephones and emergency stop buttons. Chemical carriers and vessels carrying hazardous cargoes should mark emergency showers and eye washes with the appropriate signs.



## Strontium Aluminate Rigid Strip LLL System

This system comprises of an aluminum carrier extrusion and rigid photoluminescent insert panels, offering a quick and easy installation combined with rugged and durable quality. The carrier offers a 50mm visible width of photoluminescent material and is angled away from vertical to allow the photoluminescent panel to catch more ambient light. The photoluminescent performance of the rigid panels is certified by Lloyds Register as exceeding IMO requirements when charged with less than 30 Lux from a fluorescent source.

Installation is simple. The carrier is fixed to the bulkhead by countersunk screws, the heads being covered by the photoluminescent panels which are simply slipped into the extrusion. Internal and external corners, and drops up and down stairways, are easily made by mitreing the extrusion and cutting the photoluminescent panels to suit. LLL signs, shown below, should be used to give direction indication. End caps are available to neatly terminate the extrusion where required.

Priced per metre run  
End caps

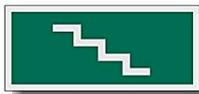
PR 2394 ▲  
PR 2395 ▲



TV 2380 EG ▲



TV 2381 EG ▲



TV 2384 EG ▲



TV  
2386  
JE ▲



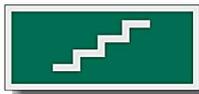
TV  
2387  
JE ▲



TV 2382 EG ▲



TV 2383 EG ▲



TV 2385 EG ▲

## Low Location Lighting Signs

A range of signs sized to fit the system above. The signs are printed on transparent, heavy duty vinyl which allows the photoluminescent LLL strip to shine through, highlighting the printed symbol.

The signs are supplied only in packs of ten.

## Photoluminescent Stair Nosing

This PVC extrusion is probably the best method of highlighting stairs along an escape route when electrical power is lost. Once installed using an acrylic or similar adhesive, these nosings offer a permanent and durable non-slip finish.

Supplied in 4500mm lengths

PR 2393 ▲



## Regulations

As identified in SOLAS consolidated edition 2001, Chapter II-2 Regulation 28.1.10 and 41-2.4.7 and Chapter III-11.5 requires that ships carrying passengers shall be fitted with active or photoluminescent Low Location Lighting and if carrying more than 36 passengers these regulations also apply to the crew accommodation. Reference should also be made to Resolution A.752(18) for the evaluation, testing and application of Low Location Lighting. In addition reference must be made to ISO Standard ISO/15370 as adopted by IMO.

## Installation

All escape routes, including stairs, must be marked by LLL. Where a photoluminescent material is used this should be a minimum of 75mm wide, unless the photoluminescent performance is increased to allow a narrower width. The strip should be positioned no higher than 300mm from deck level. Where stairs or corridors are more than 2m wide, LLL strips should be provided on both sides. Stairs should have the top and bottom clearly identified with signs 2384 or 2385 applied to the strip. 'Dead end' passages should be marked with arrows (2382 or 2383) spaced no more than 1m apart to direct people away from the dead end. The photoluminescent strip should be run up vertically to the handle of each door which forms part of the escape route. 'Exit' signs should be provided at each exit, located on the same side as the door handle. Fire and watertight doors should be marked to show how the door opens. All photoluminescent material must produce at least 15 mcd/m<sup>2</sup> 10 mins. after removal of external light sources, and at least 2 mcd/m<sup>2</sup> after 60 mins, when tested in situ. The installer should ensure that sufficient light is available to activate the photoluminescent material to attain this performance. Systems should have their luminescence tested at least once every 5 years.



4350 JP



4355 JP



4351 JP



4352 JP



4357 JP



4353 JP



4356 JP



4354 JP



4358 JP



4359 JP



4343 JP



PR 4461 Z ▲  
Individual sign size JJ



4344 JP



4340 JP



PR 4460 Z ▲  
Individual sign size KK



4341 JP



4342 JP

Signs shown within this shaded area may be combined with the arrows on the opposite page to make direction signs to suit any application



4380 JM



4381 JM



4422  
GG & JJ



4423  
GG & JJ



4384 JJ



4385 JJ



4382 JM



4383 JM



4100 JJ



4102 JJ



4119 JJ



4120 JJ

## Regulations

SOLAS 2000 amendments Chapter II-2 Regulation 13.1.3 and 13.3.2.1 require all escape routes to be photoluminescent material or illuminated by emergency light or both. IMO publication IMO-981E indicates that exit signs should comprise of a 'running man' pictogram, an arrow and the word 'Exit'.

New Regulations for marine signage are currently being prepared by the ISO working group. Results from this group and subsequent ratification by IMO are not expected for some time. One point under discussion is the use of the word 'Exit' and its use in upper and lower case. As a consequence we are offering 'Exit' signs in both formats.

# Direction Signs



4401 JP



4409 JP



4402 JP



4403 JP



4404 JP



4405 JP



4406 JP



4407 JP



4411 JP



4413 JP



4814 GM



4815 GM

Signs shown within this shaded area may be combined with the arrows on this page to make direction signs to suit any application



4824 GK



4825 GK



4820 JJ



4414 JM



4415 JM



4424 JJ



4420 GG & JJ



4421 GG & JJ



4821 GM



4416 JM



4417 JM



4425 JJ

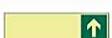
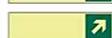
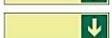
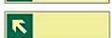
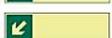
## Installation

Primary escape routes should be marked with signs comprising the 'running man' pictogram, a direction arrow and the word 'Exit'. Secondary escape routes should employ similar signs but with the wording 'Exit For emergency use only' (this practice is under review by the ISO working group but at present we are unable to offer further guidance until ratification by IMO). Signs should be positioned approximately 1700 mm from deck level for normal direction marking and not more than 300mm from deck level for LLL systems. Where possible signs at doors or hatches should be positioned above the door so that the sign is still visible when the door or hatch cover is open. Direction signs over doors should be limited to either a sign containing an upward pointing arrow, indicating the escape route continues through the door, or to the 'running man' pictogram plus the word 'Exit' indicating that the door is the final exit.

Frequency of marking is almost impossible to define accurately, as the final decision rests with the surveyor accepting the route marking, however, the following points should be adhered to: 1) Every change of direction should be marked with the appropriate sign. 2) Signs in an alley or corridor should be spaced at intervals no greater than the maximum viewing distance of the sign employed (see page 1 for details of recommended viewing distances). 3) When in public or communal areas, an 'Exit' sign should be within a 360° field of view.

Where more appropriate (e.g. crew accommodation and machinery spaces), escape routes may be marked with the muster/assembly or embarkation station direction signs shown on page 8. Whatever type of sign is employed to mark the escape route, the route should always lead to either a muster/assembly station or an embarkation station which should be identified by the appropriate sign taken from pages 2 or 3.

## Direction sign definitions

 Right from here	 Straight on from here	 Left from here
 Up and right from here	 Down from here	 Up and left from here
 Down and right from here		 Down and left from here



4300 GM



4301 GM



4320 GM



4321 GM



4302 GM



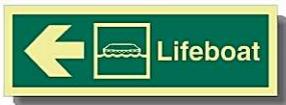
4303 GM



4322 GM



4323 GM



4304 GM



4305 GM



4324 GM



4325 GM



4306 GM



4307 GM



4326 GM



4327 GM



4308 GM



4309 GM



4328 GM



4329 GM



4482 GM



4485 MG



4486 MG



4489 MG



4490 MG



4480 GM



4483 GM



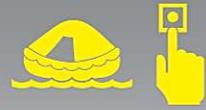
4481 GM

## Explanation of Escape Routes

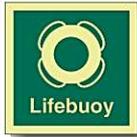
The passengers and crew of any ship must be aware of the evacuation routes available to them from within the vessel. There are usually two types of evacuation route; primary and secondary.

**Primary Evacuation Route** The quickest and easiest way to the assembly/muster station or survival craft.

**Secondary Evacuation Route** A specially designated exit route for use when the Primary route is unusable.



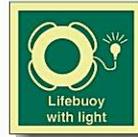
PR 4102 EE



PR 4106 EE



PR 4107 EE



PR 4108 EE



PR 4109 EE



PR 4112 EE



PR 4113 EE



PR 4114 EE



PR 4115 EE  
(SART)



PR 4116 EE



PR 4117 EE



PR 4122 EE



PR 4130 EE



PR 4132 EE



PR 5817 EE



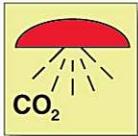
PR 5818 EE



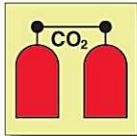
PR 6001 EE



PR 8505 EE



PR 6007 EE



PR 6009 EE



PR 6067 EE



PR 6079 EE



PR 6100 EE



PR 6101 EE



PR 6102 EE



PR 8500 EE



Photograph by kind permission of SEAL Superyachts Phuket, Thailand

## Information

With certain Super Yachts coming under MCA Regulations there is an increasing demand for signs to suit these vessels. We have introduced a selection of small 'EE' size (50x50) designed specifically for these vessels. The signs are intended to fulfill the requirements without being so obtrusive as to detract from the decor of the vessel. The signs are produced on gloss photoluminescent rigid material which will match and compliment the high quality finish required by discerning owners.



Fire control plan  
PV 6001 JJ



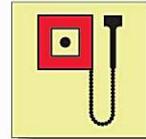
Push-button/switch  
for fire alarm  
PV 6002 JJ



Horn, fire alarm  
PV 6003 JJ



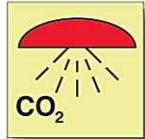
Bell, fire alarm  
PV 6004 JJ



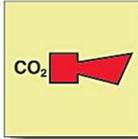
Manually operated  
call point  
PV 6005 JJ



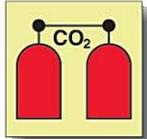
Space protected by  
automatic fire alarm  
PV 6006 JJ



Space protected  
by CO<sub>2</sub>  
PV 6007 JJ



CO<sub>2</sub> horn  
PV 6008 JJ



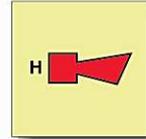
CO<sub>2</sub> release  
station  
PV 6009 JJ



Halon 1301  
battery  
PV 6010 JJ



Space protected  
by Halon 1301  
PV 6011 JJ



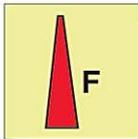
Halon horn  
PV 6012 JJ



Foam  
installation  
PV 6013 JJ



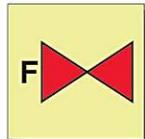
Foam monitor  
(gun)  
PV 6014 JJ



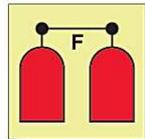
Foam nozzle  
PV 6015 JJ



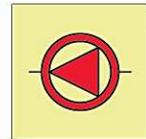
Space protected  
by foam  
PV 6016 JJ



Foam valve  
PV 6017 JJ



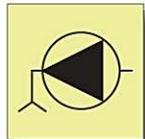
Foam release  
station  
PV 6018 JJ



Emergency  
fire pump  
PV 6019 JJ



Remote controlled fire  
pumps or emergency  
switches PV 6020 JJ



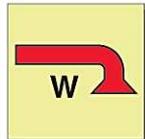
Bilge pump  
PV 6021 JJ



Emergency bilge  
pump  
PV 6022 JJ



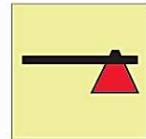
Water monitor  
(gun)  
PV 6023 JJ



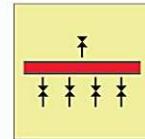
Water fog  
applicator  
PV 6024 JJ



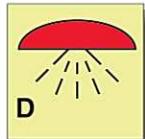
Emergency  
telephone station  
PV 6025 JJ



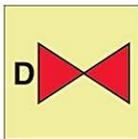
Fire axe  
PV 6026 JJ



Drenching  
installation  
PV 6027 JJ



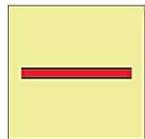
Space protected by  
drenching system  
PV 6028 JJ



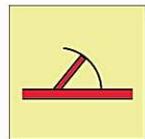
Section valves  
drenching  
PV 6029 JJ



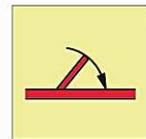
Fire station  
PV 6030 JJ



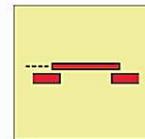
'A' class division  
PV 6031 JJ



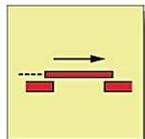
'A' class fire door  
PV 6032 JJ



'A' class fire door  
self-closing  
PV 6033 JJ



'A' class fire door  
self-closing  
PV 6034 JJ



'A' class fire door  
self-closing  
PV 6035 JJ



Portable foam  
applicator  
PV 6036 JJ



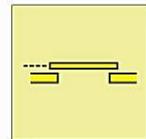
'B' class division  
PV 6037 JJ



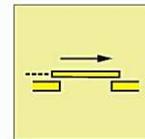
'B' class fire door  
PV 6038 JJ



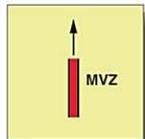
'B' class fire door  
self-closing  
PV 6039 JJ



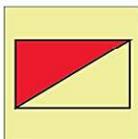
'B' class fire door  
self-closing  
PV 6040 JJ



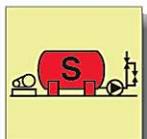
'B' class fire door  
self-closing  
PV 6041 JJ



Main vertical zone  
PV 6042 JJ



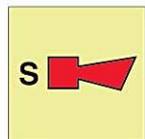
Fire alarm panel  
PV 6043 JJ



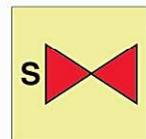
Sprinkler  
installation  
PV 6044 JJ



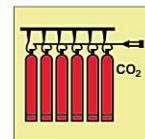
Space protected  
by sprinkler  
PV 6045 JJ



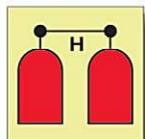
Sprinkler horn  
PV 6046 JJ



Sprinkler section  
valve  
PV 6047 JJ



CO<sub>2</sub> battery  
PV 6048 JJ



Halon release  
station  
PV 6049 JJ

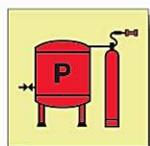
# IMO Fire Control Symbols



11



Halon 1301 bottles in protected area  
PV 6050 JJ



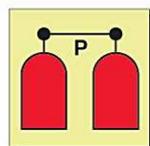
Powder installation  
PV 6051 JJ



Powder monitor (gun)  
PV 6052 JJ



Powder hose and hand gun  
PV 6053 JJ



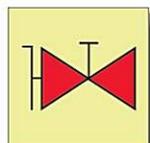
Powder release station  
PV 6054 JJ



Flame detector  
PV 6055 JJ



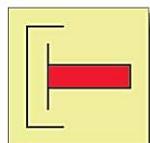
Smoke detector  
PV 6056 JJ



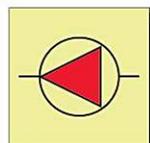
Fire main with valves  
PV 6057 JJ



Hose box with spray/jet  
PV 6058 JJ



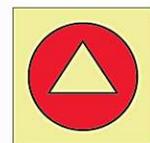
International shore connection  
PV 6059 JJ



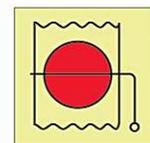
Fire pump  
PV 6060 JJ



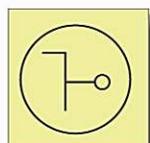
Heat detector  
PV 6061 JJ



Gas detector  
PV 6062 JJ



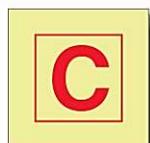
Fire damper in vent duct  
PV 6063 JJ



Remote controlled skylights  
PV 6064 JJ



Remote controlled fuel/lubricating oil valves  
PV 6065 JJ



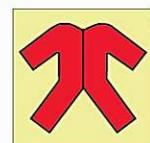
Control station  
PV 6066 JJ



Locker with fireman's outfit  
PV 6067 JJ



Locker with additional breathing apparatus  
PV 6068 JJ



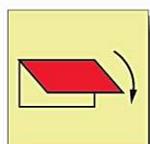
Locker with additional protective clothing  
PV 6069 JJ



Primary means of escape  
PV 6070 JJ



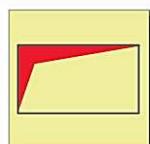
Secondary means of escape  
PV 6071 JJ



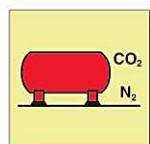
Closing appliance for exterior ventilation inlet or outlet  
PV 6072 JJ



Inert gas installation  
PV 6073 JJ



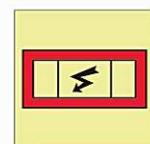
High expansion foam supply trunk  
PV 6074 JJ



CO<sub>2</sub>/nitrogen bulk installation  
PV 6075 JJ



Emergency generator  
PV 6076 JJ



Emergency switchboard  
PV 6077 JJ



Remote ventilation shutoff  
PV 6078 JJ



Powder fire extinguisher  
PV 6079 JJ



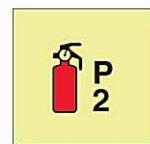
Foam fire extinguisher  
PV 6080 JJ



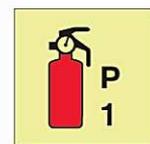
Halon 1211 fire extinguisher  
PV 6081 JJ



CO<sub>2</sub> fire extinguisher  
PV 6082 JJ



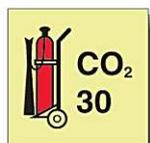
Powder fire extinguisher  
PV 6083 JJ



Powder fire extinguisher  
PV 6084 JJ



Wheeled powder fire extinguisher  
PV 6085 JJ



Wheeled CO<sub>2</sub> fire extinguisher  
PV 6086 JJ

## Regulations

SOLAS Consolidated edition 2001 Chapter II-2 regulation 20 and SOLAS amendments 2000 Chapter II-2 regulation 24 requires the use of fire control symbols on Fire Plans in accordance with Resolution A.654(16). However IMO are to review a circular MSC1050 to recommend the adoption of ISO standard 17631 and as and when details become available, Maritime Progress will provide the necessary additional signage. These symbols are often used to identify actual equipment where no standard sign is available.



6100  
GG & JJ



6101  
GG & JJ



6102  
GG & JJ



6103  
GG & JJ



6104  
GG & JJ



6120 KJ



6121 KJ



6122 KJ



6123 KJ



6124 KJ



6140 GM



6141 GM



6142 GM



6143 GM



6144 GM



6145 GM



6146 GM



6147 GM



6148 GM



6149 GM



6150 GM



6151 GM



6152 GM



6153 GM



6154 GM



6155 GM



6157 GM



6158 GM



6159 GM



6160 GM



6163 GM



6164 GM



6165 GM



6300 JJ



6210  
GG & JJ



6200  
GG & JJ



6201  
GG & JJ



6202  
GG & JJ



6203  
GG & JJ



6204  
GG & JJ



6205  
GG & JJ



6206  
GG & JJ



6207  
GG & JJ



6208  
GG & JJ



6209  
GG & JJ



6211  
GG & JJ



6301  
MG & RK



6 Kg CO<sub>2</sub> fire extinguisher  
PV 6087 JJ



9 litre powder fire extinguisher  
PV 6088 JJ



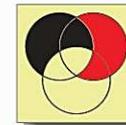
45 litre wheeled powder fire extinguisher  
PV 6089 JJ



5 litre powder fire extinguisher  
PV 6090 JJ



9 Litre Foam fire extinguisher  
PV 6091 JJ



Fire extinguisher spare charge  
PV 6715 JJ



Safety plan  
PV 4132 JJ



PV, PR 6430 KG



PV, PR 6431 KG



PV, PR 6432 KG



PV, PR 6433 KG



PV, PR 6414 KG



PV, PR 7545 KJ



PV, PR 5876 KJ



PR 6500 Z ▲  
Individual sign size KK



PR 6501 Z ▲  
Individual sign size JJ



PR 6502 Z ▲  
Individual sign size KK



PR 6503 Z ▲  
Individual sign size JJ



PR 6504 Z ▲  
Individual sign size KK



PR 6505 Z ▲  
Individual sign size JJ



PR 6506 Z ▲  
Individual sign size KK



PR 6507 Z ▲  
Individual sign size JJ



WV 2702 JG

## Regulations

SOLAS Chapter II-2 Consolidated 2001 edition regulation 28.10 refers to the location markings for fire equipment locations and requires that they must be illuminated by emergency lighting or of photoluminescent material.

## Installation

Each item of fire fighting equipment should be marked with the appropriate symbol. Where various types of equipment are stored at one location, 'Fire Point' signs may be used. When equipment in an alley or corridor is stowed in a recess or locker, then a panoramic sign, mounted well above head height should be used to enable the equipment to be identified from a distance (see page 1 for details of recommended viewing distances).

Any space protected by a CO<sub>2</sub> blanketing system must have all entrance doors and hatches marked by the appropriate sign. See signs 5876 KJ & 7545 KJ on the right of this page.

All elevator entrances should be marked with sign 6300 JJ shown on the opposite page.

Fire extinguishers may be further identified as to their use with signs 6430 KG to 6433 KG which comply with BS Regulation EN 3.

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 Photoluminescent, rigid PVC. . . . . Prefix: PR  
 White, self adhesive vinyl . . . . . Prefix: WV  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material. Items shown with ▲ are individually priced.

# 14 ! Mandatory Signs



5800  
GG & JJ



5801  
GG & JJ



5802  
GG & JJ



5803  
GG & JJ



5804  
GG & JJ



5805  
GG & JJ



5806  
GG & JJ



5807  
GG & JJ



5808  
GG & JJ



5809  
GG & JJ



5811  
GG & JJ



5812  
GG & JJ



5814  
GG & JJ



5815  
GG & JJ



5816  
GG & JJ



5817  
GG & JJ



5818  
GG & JJ



5819  
GG & JJ



5820  
GG & JJ



5821  
GG & JJ



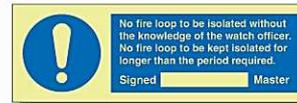
5822  
GG & JJ



5679 GM



5852 GM



5853 GM



5854 GM



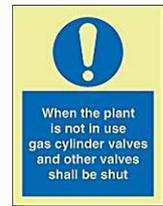
5870 KJ



5871 KJ



5872 KJ



5873 KJ



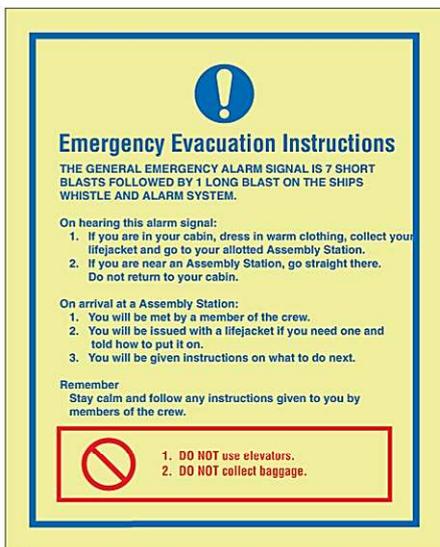
5874 KJ



PR 5875 KJ



5876 KJ



5900 LK



5901 LK



PR 5902 KJ



5903 KJ



5830 JQ



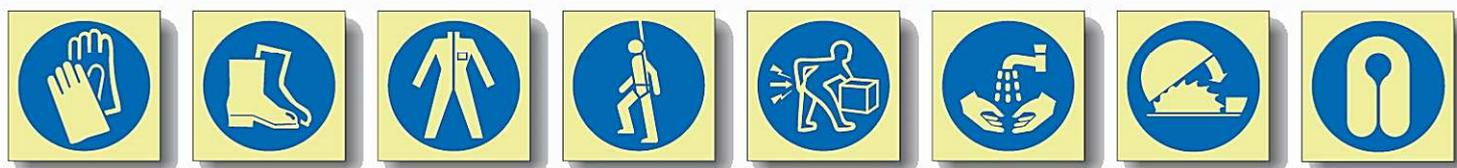
5831 JQ

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
Photoluminescent, rigid PVC. . . . . Prefix: PR  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material.



5641 JJ    5642 JJ    5643 JJ    5644 JJ    5645 JJ    5646 JJ    5647 JJ    5648 JJ



5649 JJ    5650 JJ    5651 JJ    5652 JJ    5653 JJ    5654 JJ    5655 JJ    5656 JJ



5675 GM    5677 GM    5678 GM    5851 GM



5709 KJ    5710 KJ    5733 KJ    5782 KJ    5712 KJ    5734 KJ    5730 KJ    5715 KJ



5716 KJ    5735 KJ    5732 KJ    5719 KJ    5731 KJ    5721 KJ    5722 KJ    5723 KJ



5724 KJ    5725 KJ    5726 KJ    5727 KJ    5728 KJ    5737 KJ    5729 KJ    5742 KJ

## Regulations

Currently there are no specific marine regulations existing regarding mandatory signage. However the requirements of National Health and Safety Regulations may be enforced. This may be under the jurisdiction of Certifying Authorities or Flag State inspectors such as the Marine Coast Guard Agency.

## Installation Examples

Battery lockers				Machinery space entrances and ECR inside doors				Bonds & stores	
Grinding machines				Mooring areas				Toilets & machinery space exits	

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 Photoluminescent, rigid PVC. . . . . Prefix: PR  
 White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**



7500 JJ



7501 JJ



7502 JJ



7503 JJ



7504 JJ



7505 JJ



7506 JJ



**Danger**

7540 KJ



**Danger**  
Unmanned  
machinery space  
machinery may start  
without warning

7542 KJ



**Danger**  
Battery  
charging

7543 KJ



**Danger**  
Low  
oxygen level

7544 KJ



**Danger**  
You are entering  
a CO<sub>2</sub> protected  
area

7545 KJ



**Danger**  
Moving  
machinery

7546 KJ



**Danger**  
Under  
maintenance

7547 KJ



**Danger**  
Overhead  
working

7548 KJ



**Caution**  
Out of order

7566 KJ



**Danger**  
Men working  
below

7567 KJ



**Warning**  
Hazardous  
area

7549 KJ



**Warning**  
Insulate before  
removing  
guards

7550 KJ



**Danger**  
Dust hazard

7551 KJ



**Danger**  
Asbestos

7554 KJ



**Danger**  
Solvents

7555 KJ



**Warning**  
Motor starts  
and stops  
automatically

7557 KJ



**Caution**  
Vehicles

7560 KJ



**Caution**  
Exhaust  
fumes

7561 KJ



**Caution**  
Steep stairway  
use handrails

7624 KJ



**Danger**  
Hot surface

7579 KJ



**Danger**  
Hot

7569 KJ



**Caution**  
Slip  
hazard

7572 KJ



**Caution**  
Wet deck

7573 KJ



**Caution**  
Slippery  
surface

7574 KJ



**Warning**  
Mind your  
head

7570 KJ



**Danger**  
Petroleum  
vapour

7580 KJ



**Caution**  
Explosion  
risk

7581 KJ



**Caution**  
Explosion  
gases

7582 KJ



**Danger**  
Explosive  
material

7583 KJ



**Danger**  
Compressed  
gases

7584 KJ



**Danger**  
Compressed  
oxygen

7585 KJ



**Danger**  
Acid

7590 KJ



**Danger**  
Battery acid

7591 KJ



**Danger**  
Corrosive  
substance

7596 KJ



**Danger**  
Caustic

7597 KJ



7507JJ	7508JJ	7509JJ	7510JJ	7511JJ	7515JJ	7516JJ
7600 KJ	7601 KJ	7604 KJ	7605 KJ	7610 KJ	7611 KJ	7613 KJ
7587 KJ	7619 KJ	7618 KJ	7616 KJ	7617 KJ	7615 KJ	7614 KJ
7625 KJ	7626 KJ	7627 KJ	7628 KJ	7620 KJ	7623 KJ	7629 KJ
7631 KJ	7635 KJ	7630 KJ	7632 KJ	7633 KJ	7634 KJ	7636 KJ
7650 KJ	7660 KJ	7670 KJ	7680 KJ	7681 KJ	7673 KJ	7668 KJ

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 Photoluminescent, rigid PVC. . . . . Prefix: PR  
 White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**

# 18 Prohibition Signs



8500 EE, GG,  
JJ ,KK & MM



8501 JJ



8502 JJ



8503 JJ



8504 JJ



8505  
EE & JJ



8506 JJ



8508 JJ



8509 JJ



8510 JJ



8530 FK, GM & KR



8531 GM



8532 GM



8533 GM



8534 GM



8536 GM



8537 GM



8539 GM



8540 GM



8541 GM



8542 GM



8546 GM



8549 GM



8545 GM



8544 GM



8557 GM



8548 GM



8550 GM



8553 GM



8555 GM



8556 GM



8563 GM



8552 GM



8551 GM



8564 GM



8543 GM



8559 GM



8560 GM



8561 GM



8565 GM



8567 GM



8568 GM



8569 GM



8566 GM



8576 GM



8570 GM

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 Photoluminescent, rigid PVC. . . . . Prefix: PR  
 White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**



8690 GM



8691 GM



8692 GM



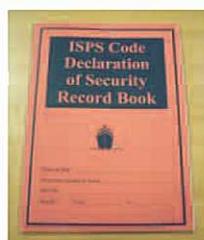
5824 GM



5855 GM



5825 GM



ISPS Code Declaration of Security Record Book Complies with ISPS Code

PB 1205 Y ▲



WV 2419 JJ  
WR 2419 MM



WV 8695 LQ ▲  
Conforming to ABS requirements



WR 2703 JM ▲

Rigid PVC sign with printed insert that can be oriented to show three security levels through a window in the front face.



WV 2700 CJ

Security seal manufactured from a special plastic which tears when attempts to peel it off are made. Ideal for securing bonds etc. Sold in sheets of 10



WV, WR 2896 NM ▲



WV, WR 2974 JJ



WR 2532 HF ▲  
Sold only in packs of 10 complete with wired 'twists' for fixing



WR 2540 HF ▲  
Sold only in packs of 10 complete with wired 'twists' for fixing



WV 2890 Z ▲  
50mm x 25mm



WV 2891 Z ▲  
50mm x 25mm



WV, WR 2894 MM



WV, WR 2895 GM



WV 2892 Z ▲  
50mm x 25mm



WV 2893 Z ▲  
50mm x 25mm



WV, WR 2924 MM



WV, WR 2907 GM



WV, WR 2909 GM



WV, WR 3138 PM ▲



WV, WR 3139 MM ▲

## Regulations

ISPS Code Part B Section 9 require the identification of restricted areas, access notices and forms of declaration. Part B 16.23 also requires that port facilities show similar identification.

ISPS Code 2003 edition and SOLAS amendments comes into force in July 2004 and require certain areas to have restricted access and be identified as such.

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 Photoluminescent, rigid PVC. . . . . Prefix: PR  
 White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
 Publication. . . . . Prefix: PB  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material. Items shown with ▲ are individually priced.



3100 KM



3101 KM



3102 KM



3103 KM



3109 KM



3112 KM



WR 3116 KM



3104 KM



3105 KM



3106 KM



3110 KM



3113 KM



3114 KM



3115 KM



WR 3014 VR



3108 MM ▲



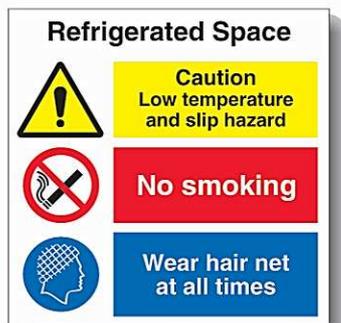
8522 KM

## Special & Combination Signs

The selection of combination signage is designed to cover many of the other regulations and requirements of all types of signs. It is primarily focused on areas that involve a number of different regulations on one sign rather than having a number of different signs.

Available in: White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material. Items shown with ▲ are individually priced.



3122 MM ▲



3123 MM ▲



3124 MM ▲



3111 MM ▲



3125 MM ▲



3126 MM ▲



3127 MM ▲



3128 MM ▲



3129 MM ▲



3135 MM ▲



3136 MM ▲



3137 MM ▲



Disabled Access  
2401 JJ & MM



Elevators  
2402 JJ & MM



Foot Passengers  
2403 JJ & MM



Cars  
2404 JJ & MM



Lorries  
2405 JJ & MM



Arrivals  
2406 JJ & MM



Departures  
2407 JJ & MM



Toilets  
2408 JJ & MM



Ladies Toilets  
2409 JJ & MM



Gentlemen's Toilets  
2410 JJ & MM



Drinking Water  
2411 JJ & MM



Nursery  
2412 JJ & MM



First Aid  
2413 JJ & MM



Pharmacy  
2414 JJ & MM



Baggage Claim  
2415 JJ & MM



Baggage Cart  
2416 JJ & MM



Baggage Store  
2417 JJ & MM



Baggage Lockers  
2418 JJ & MM



No Weapons  
2419 JJ & MM



No Smoking  
2420 JJ & MM



No Entry  
2421 JJ & MM



Bar  
2422 JJ & MM



Coffee Shop  
2423 JJ & MM



Restaurant  
2424 JJ & MM



Shopping Area  
2425 JJ & MM



Information  
2426 JJ & MM



Hotel Reservations  
2427 JJ & MM



Lost & Found  
2428 JJ & MM



Telephones  
2429 JJ & MM



Cables & Faxes  
2430 JJ & MM



Postal Facility  
2431 JJ & MM



Banking Facility  
2432 JJ & MM



Taxis  
2433 JJ & MM



Buses  
2434 JJ & MM



Trains  
2435 JJ & MM



Car Rental  
2436 JJ & MM



Arrivals  
2437 JJ & MM



Departures  
2438 JJ & MM



See page 53 for sign frames



Connecting Flights  
2439 JJ & MM



Helicopters  
2440 JJ & MM



2441 JJ & MM



2442 JJ & MM



Baby Change  
2443 JJ & MM

**We have added this sign to the range due to popular demand but it is not included in the ICAO/IMO publication.**

## Regulations

In 1993 the ICAO & IMO Councils approved the joint publication of the third edition of Doc 9430 - which details symbols to be used in all air and sea ports. These signs should be used without text where ever possible.

## Format

JJ size signs are offered in self adhesive vinyl. MM size signs are offered in rigid PVC, suitable for mounting using adhesives or by drilling to accommodate screw fixing or suspension wires.

Available in: White, self adhesive vinyl . . . . . Prefix: WV (JJ size)  
 White, rigid PVC . . . . . Prefix: WR (MM size)

**Add this prefix to the reference number when ordering**

# Deck and Engine Room Signs



# 23



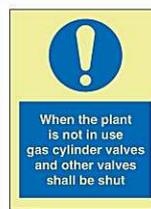
WR 3116 KM



PV 7545 KJ



PV 5876 KJ



5873 KJ



5874 KJ



WV 5728 KJ



WV 8574 GM



WV 8530 GM



8539 GM



8565 GM



WV 4180 GM



WV 4185 GM



7700 GM



7701 GM



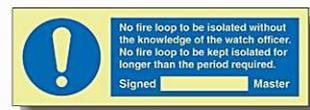
5679 GM



5851 GM



5852 GM



5853 GM



WV, WR 3103 KM



5872 KJ



5875 KJ



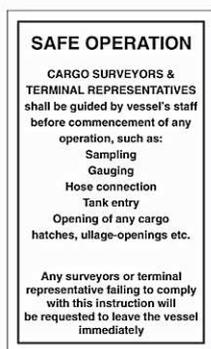
PR 5902 KJ



WV 7541 KJ



WV, WR 3110 KM



WV 10118 LJ

Also see the Space Identification signage page 21



5782 KR, MP & Z ▲ 600x450



7578 GM



4181 GM



8546 GM



8547 GM



WR 3014 VR

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 Photoluminescent, rigid PVC. . . . . Prefix: PR  
 White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material. Items shown with ▲ are individually priced.

# 24 Galley Signs



5745 GM



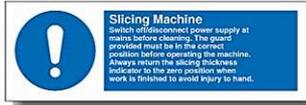
5746 GM



8618 GM



5748 GM



5750 GM



5751 GM



5752 GM



5753 GM



5754 GM



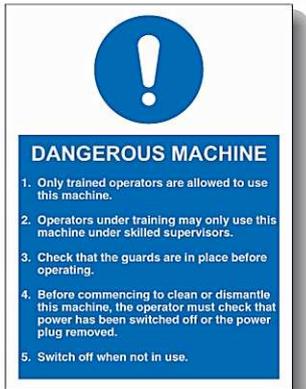
5755 GM



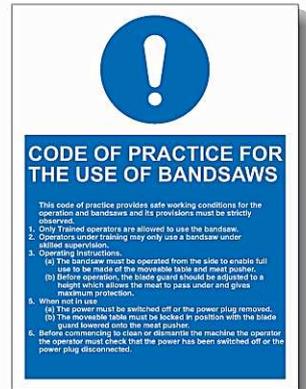
5756 GM



WV 8619 GM



5757 LK



5758 LK



5762 LK



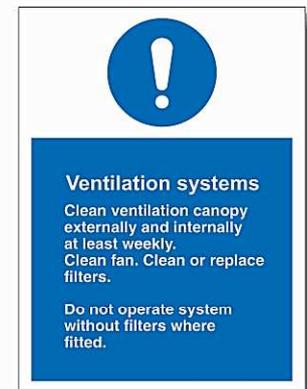
5761 LK



5759 LK



5760 LK



5763 LK



5764 LK



WV 5728 KJ



WV 5737 KJ



WV 5738 KJ



WV 5690 FK



WV 5693 FK



WV 5691 FK



WV 5694 FK



WV 5739 KJ



WV 5740 KJ



WV 5736 KJ



WV 5692 FK



WV 5695 FK



PV 8567 GM

For garbage log book, placards and plans see pages 49, 50 & 51



WV 5767 KJ



WV 5768 KJ



WV 7573 KJ



WV, WR 7569 GM



WV, WR 7577 GM



WV 7572 KJ



WV 7574 KJ



WV 7623 KJ



WV, WR 7579 GM



WV, WR 7598 GM



WV 8550 GM



WV 4180 GM



WV 8530 GM



WV 8532 GM



WV, WR 5765 LK



WV, WR 5766 LK



WV 8505 JJ



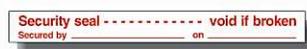
WV 8505 EE



WV 8500 JJ



WV 8500 EE



WV 2700 CJ

Security seal manufactured from a special plastic which tears when attempts to peel it off are made. Ideal for securing bonds etc. Sold in sheets of 10



WV 2201 JG



WV 2200 Z ▲  
80mm x 160mm

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material. Items shown with ▲ are individually priced.



WV 7624 KJ



WV 7572 KJ



WV 8000 FH



WV 8001 JG



PV 4122 EE  
Lifejacket locker sign



WV 5680 EG



WV 7000 GM



WV 7574 KJ



WV 7623 KJ



WV 8532 GM



WV 8570 GM



WV 8574 GM



WV 8520 FK



WV 8575 FK



WV 7573 KJ



WV 5877 KJ



WV 8530 GM



WV 8550 GM



WV 4180 GM



WV 5878 KJ



WV 5769 KJ



WV 8619 GM



WV 4186 GM



WV 4185 GM



PV, PR 5803 GG & JJ



PV, PR 5804 GG & JJ



PV, PR 5809 GG & JJ



PV, PR 5811 GG & JJ



PV, PR 5822 GG & JJ



WV 8524 JJ



WV 8500 JJ



PV, PR 4470 JP



PV, PR 4210 JF



PV, PR 4211 JF



PV, PR 4212 JF



PV, PR 4213 JF



PV, PR 4421 JJ



WV 8500 EE



PV, PR 4471 JP



PV, PR 4201 JF



PV, PR 4202 JF



PV, PR 4203 JF



PV, PR 4204 JF



PV, PR 4420 JJ



WV 8505 JJ



WV 8505 EE

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
 Photoluminescent, rigid PVC. . . . . Prefix: PR  
 White, self adhesive vinyl . . . . . Prefix: WV  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material.



WR 2868 Z ▲  
sign size EJ



WR 2867 Z ▲  
sign size EJ



2938 GE



2939 GE



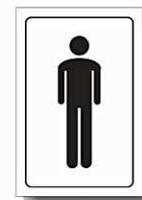
2938 EG



2939 EG



2941 JG



2942 JG



2928 JK



2929 JK



2903 GM



2909 GM



2931 JK



2932 JK



2908 GM



2918 GM



2933 JK



2936 JK



2916 GM



2923 GM



2937 JK



2940 JJ



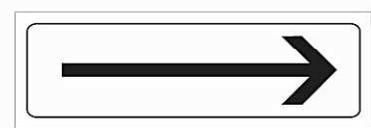
2919 GM



2920 GM



2921 GM



2922 GM



8620 MK



8621 MK



8622 MK



8623 MK



8624 MK



8625 MK



8626 MK



8627 MK



8628 MK



8629 MK



8630 MK



8631 MK



8632 MK



8598 MK



8633 MK



5790 MK

## Regulations

BS5499:2002 part 11 gives guidance on a range of water safety signs based on designs produced by The National Water Safety Committee. Signs should be used in areas where water-based sports or other activities take place to warn of possible hazards or situations where care should be taken.



7730 MK



7731 MK



7732 MK



7733 MK



7734 MK



7735 MK



7736 MK



7737 MK



7738 MK



7739 MK



7740 MK



7741 MK



7742 MK



2996 MK



2997 MK



2998 MK



2999 MK

# 30



# Temporary Tie Tags



WR 2501 HF ▲



WR 2502 HF ▲



WR 2503 HF ▲



WR 2504 HF ▲



WR 2505 HF ▲



WR 2506 HF ▲



WR 2507 HF ▲



WR 2508 HF ▲



WR 2509 HF ▲



WR 2510 HF ▲



WR 2541 HF ▲



WR 2542 HF ▲



WR 2520 HF ▲



WR 2521 HF ▲



WR 2522 HF ▲



WR 2523 HF ▲



WR 2524 HF ▲



WR 2525 HF ▲



WR 2526 HF ▲



WR 2527 HF ▲



WR 2528 HF ▲



WR 2529 HF ▲



WR 2530 HF ▲



WR 2531 HF ▲



WR 2532 HF ▲



WR 2540 HF ▲



## Installation

Tie tags are required wherever a need occurs to temporarily mark items and areas for safety reasons, usually during maintenance and in connection with the permit to work system. These tags are printed on a semi-rigid PVC with a matt finish to allow an authorisation signature and the date to be added in pen. The tags are supplied in packs of ten and come complete with wired plastic 'twists' for easy fixing.

Available in: White, rigid PVC . . . . . Prefix: WR only  
Tag size: 140mm x 75mm. . . . . Sold only in packs of 10

Items shown with ▲ are individually priced.



**Vinyl Tape**  
Photoluminescent self adhesive vinyl  
Emergency equipment marking  
Handrail identification  
Stair identification

40mm wide x 10m PV 2014 ▲  
80mm wide x 10m PV 2018 ▲



**Way Finding Tape**  
Photoluminescent self adhesive vinyl  
Directional route marking  
Way finding, supplied with 10 left and 10 right handed decals to allow tape to indicate either direction

40mm wide x 10m PV 2024 ▲  
80mm wide x 10m PV 2028 ▲



**Green Diagonal Tape**  
Photoluminescent self adhesive vinyl  
Marking safe areas  
Exit door highlighting  
Escape identification

40mm wide x 10m PV 2034 ▲  
80mm wide x 10m PV 2038 ▲



**Black Diagonal Tape**  
Photoluminescent self adhesive vinyl  
Danger zone marking  
Obstacle marking

40mm wide x 10m PV 2044 ▲  
80mm wide x 10m PV 2048 ▲



**Red Diagonal Tape**  
Photoluminescent self adhesive vinyl  
Highlighting fire fighting equipment  
Hazard marking

40mm wide x 10m PV 2054 ▲  
80mm wide x 10m PV 2058 ▲



**Barrier Tape**  
Non self adhesive polyethylene  
Hazardous area marking  
No entry marking

Red & White Barrier Tape  
75mm wide x 500m CV 2005 ▲  
Black & Yellow Barrier Tape  
75mm wide x 500m CV 2006 ▲



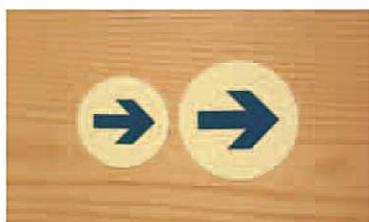
**Self Adhesive SOLAS Tape**  
Lifeboat marking  
Lifejacket marking  
Safety equipment marking  
Deck safety route marking

50mm wide x 45m ST 2000 ▲



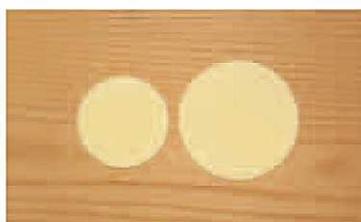
**Non-slip Self Adhesive Tape**  
Nose of stairs  
Escape routes on deck  
Walkways on deck  
Galleys  
Engine room ladders

50mm wide x 18m NS 2001 ▲  
100mm wide x 18m NS 2002 ▲



**Trail Marker Arrow Dots**  
Self adhesive rigid photoluminescent  
Directional deck marking  
of escape routes

60mm diameter PR 2086 ▲  
80mm diameter PR 2088 ▲



**Trail Marker Dots**  
Self adhesive rigid photoluminescent  
Deck marking of escape routes  
Highlighting switches and controls

60mm diameter PR 2096 ▲  
80mm diameter PR 2098 ▲

## Photoluminescent Tape

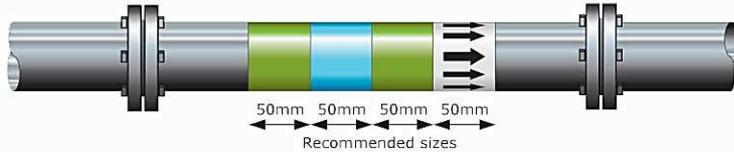
Generally tape is used for two main duties, way finding, as with Low Location Lighting (see page 5), and area identification. Area identification can assist crew and passengers locate emergency equipment in the event of a 'black out'.

A machinery space can be a confusing area, even to crew familiar with their surroundings, when all light is lost. Identifying telephones, fire fighting equipment, low deck beams and protruding pipes, valves, hand rails, trip hazards etc. can save valuable time and possibly lives in the event of an emergency. Where used as part of a LLL system installers must ensure adequate light is available to activate the photoluminescent material to attain the required performance.

Available in: Photoluminescent, self adhesive vinyl . . . . . Prefix: PV  
Photoluminescent, rigid PVC. . . . . Prefix: PR  
Coloured vinyl or polyethylene . . . . . Prefix: CV  
SOLAS tape . . . . . Prefix: ST  
Non-slip tape . . . . . Prefix: NS

Where the material prefix is shown along with the reference number, the sign is only available in the specified material. Items shown with ▲ are individually priced.

# 32 Pipe Identification Tape to ISO 14726



See page 49 for Pipe Colour Identification Poster

<b>Waste Media</b>		<b>Ref. Nos.</b>	<b>Oil other than fuel</b>		<b>Ref. Nos.</b>
Black water		2140-2141-2140	Thermal fluid		2146-2141-2146
Waste oil/Used oil		2140-2142-2140	Lubrication oil for gas turbines		2146-2143-2146
Bilge water		2140-2143-2140	Hydraulic fluid		2146-2144-2146
Exhaust gas		2140-2144-2140	Lubrication oil for steam turbines		2146-2147-2146
Grey water		2140-2150-2140	Lubrication oil for gears		2146-2149-2146
Sewage - contaminated		2140-2151-2140	Lub. oil for int. combustion engines		2146-2151-2146
<b>Fresh Water</b>		<b>Ref. Nos.</b>	<b>Steam</b>		<b>Ref. Nos.</b>
Fresh water, sanitary		2141-2142-2141	Steam for heating		2147-2140-2147
Potable water		2141-2143-2141	Exhaust steam		2147-2150-2147
Distillate		2141-2144-2141	Supply steam		2147-2151-2147
Gas turbine wash water		2141-2146-2141	<b>Air in ventilation systems</b>		<b>Ref. Nos.</b>
Feed water		2141-2147-2141	Discharge air		2150-2140-2150
Cooling fresh water		2141-2149-2141	Mechanical supply air - cold		2150-2141-2150
Chilled water		2141-2150-2141	Natural exhaust air		2150-2142-2150
Condensate		2141-2151-2141	Atmospheric air		2150-2143-2150
<b>Sea Water</b>		<b>Ref. Nos.</b>	Mechanical exhaust air		2150-2144-2150
Decontamination water		2143-2141-2143	Decontaminated supply air		2150-2145-2150
Sea water, sanitary		2143-2142-2143	Mechanical recirculated air		2150-2146-2150
Ballast water		2143-2149-2143	Mechanical supply air - warm		2150-2147-2150
Cooling sea water		2143-2151-2143	Smoke clearance		2150-2148-2150
<b>Fuel</b>		<b>Ref. Nos.</b>	Conditioned supply air		2150-2149-2150
HFO (Heavy fuel oil)		2142-2140-2142	Natural supply air		2150-2151-2150
Aviation fuel		2142-2141-2142	<b>Fire fighting/fire protection</b>		<b>Ref. Nos.</b>
Biological fuel		2142-2149-2142	Fire-fighting water		2148-2143-2148
Gas turbine fuel		2142-2150-2142	Fire-fighting gas		2148-2144-2148
MDO (Marine diesel fuel)		2142-2151-2142	Sprinkler water		2148-2146-2148
<b>Non-flammable gases</b>		<b>Ref. Nos.</b>	Spray water		2148-2149-2148
Oxygen		2144-2141-2144	Fire-fighting powder		2148-2150-2148
Inert gas		2144-2142-2144	Fire-fighting foam		2148-2151-2148
Nitrogen		2144-2143-2144	<b>Flammable gases</b>		<b>Ref. Nos.</b>
Refrigerant		2144-2145-2144	Hydrogen		2151-2141-2151
Compressed air - low pressure		2144-2146-2144	Acetylene		2151-2144-2151
Compressed air - high pressure		2144-2148-2144	Liquid gas		2151-2149-2151
Control air/Regulating air		2144-2149-2144	<b>Flow arrows</b>		<b>Ref. No.</b>
Breathing air*		2144-2150-2144	Flow arrows		2130
Breathing gas*		2144-2151-2144			

\* Intended for use in submarines for distribution systems used for breathing air from cylinders.

## Regulations

ISO 14726-1 (1999) details basic marking of piping systems in accordance with the content and/or function on board ships and marine structures.

ISO 14726-2 (2002) details specific additional colours to be used in conjunction with the main colours given in ISO 14726-1.

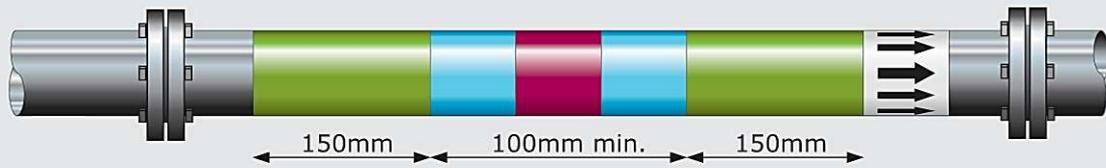
The chart above shows all the current permutations of identification colours from both the above standards. This system is not intended to identify medical or industrial gasses and cargos.

ISO 14726 will be recommended to the IMO sub-committee early in 2004 and then the full committee mid 2004. It is strongly believed that this standard will be recommended for use on ships at that time, but the outcome of the full committee cannot be guaranteed at the date of this publication going to press.

For guidance on installation see page 33.

**All pipe tapes on this page are offered as self adhesive rolls 50mm wide by 30m long.**

Black		CV 2140 ▲
Blue		CV 2141 ▲
Brown		CV 2142 ▲
Green		CV 2143 ▲
Grey		CV 2144 ▲
Maroon		CV 2145 ▲
Orange		CV 2146 ▲
Silver		CV 2147 ▲
Red		CV 2148 ▲
Violet		CV 2149 ▲
White		CV 2150 ▲
Yellow-ochre		CV 2151 ▲
Flow arrows		CV 2130 ▲



<b>Water</b>		<b>Use tapes in this sequence:</b>
Sea, river or untreated		2101-2101-2101
Fire mains		2101-2111-2111-2101
Drinking		2101-2113-2113-2101
Cooling (primary)		2101-2117-2117-2101
Hydraulic power		2101-2116-2116-2101
Boiler feed		2101-2114-2117-2114-2101
Condensate		2101-2114-2115-2114-2101
Chilled		2101-2117-2115-2117-2101
Heating over 100°C		2101-2118-2114-2118-2101
Heating under 100°C		2101-2114-2118-2114-2101
Hot		2101-2117-2118-2117-2101
Cold		2101-2117-2114-2117-2101
<b>Oils</b>		
Furnace		2103-2103-2103
Diesel		2103-2117-2117-2103
Lubricating		2103-2115-2115-2103
Hydraulic power		2103-2116-2116-2103
Transformer		2103-2114-2114-2103
<b>Gases</b>		
Compressed air		2106-2106-2106
Vacuum		2106-2117-2117-2106
Steam		2102-2102-2102
Refrigerant 12		2104-2118-2118-2104
Refrigerant 22		2104-2119-2119-2104
Refrigerant 502		2104-2120-2120-2104
Anhydrous ammonia		2104-2121-2121-2104
Other refrigerants		2104-2115-2115-2104
Natural gas		2104-2112-2112-2104
<b>Others</b>		
Drainage		2107-2107-2107
Elec. conduits and ventilation ducts		2108-2108-2108
Acids and alkalis		2105-2105-2105
Flow direction arrows		2130

<b>150mm Tape</b>	<b>Reference</b>
Green	CV 2101 ▲
Silver/Grey	CV 2102 ▲
Brown	CV 2103 ▲
Yellow ochre	CV 2104 ▲
Violet	CV 2105 ▲
Light blue	CV 2106 ▲
Black	CV 2107 ▲
Orange	CV 2108 ▲

<b>50mm Tape</b>	<b>Reference</b>
Red	CV 2111 ▲
Primrose	CV 2112 ▲
Auxiliary blue	CV 2113 ▲
Crimson	CV 2114 ▲
Emerald green	CV 2115 ▲
Salmon pink	CV 2116 ▲
White	CV 2117 ▲
Blue	CV 2118 ▲
Sea green	CV 2119 ▲
Golden brown	CV 2120 ▲
Dark mauve	CV 2121 ▲
Flow arrows	CV 2130 ▲

All rolls of tape are offered as self adhesive rolls 30m long.

## Regulations

Good working practice should dictate the use of a pipe identification system to promote a safe working environment. The system detailed here conforms to BS 1710, and the colours to BS 4800.

## Installation

Tapes should be fitted either side of valves, at bulkhead penetrations, 'T's and crosses etc. and at regular intervals along the pipe. Prior to application pipes and lagging should be dust and oil free. The tape should be overlapped by at least 20mm on the blind side of the pipe.



## Hazard Warning Diamonds with Class Numbers

Class 1 WV 2203 GG & LL	Class 1 WV 2222 GG & LL	Class 1 WV 2223 GG & LL	Class 1 WV 2224 GG & LL	Class 1 WV 2225 GG & LL	Class 1 WV 2226 GG & LL	Class 1 WV 2227 GG & LL	
Class 1 WV 2228 GG & LL	Class 1 WV 2229 GG & LL	Class 1 WV 2248 GG & LL	Class 1 WV 2249 GG & LL	Class 1 WV 2250 GG & LL	Class 1 WV 2251 GG & LL	Class 1 WV 2252 GG & LL	
Class 2.1 WV 2207 GG & LL	Class 2.2 WV 2208 GG & LL	Class 2.3 WV 2209 GG & LL	Class 3 WV 2202 GG & LL	Class 4.1 WV 2210 GG & LL	Class 4.2 WV 2211 GG & LL	Class 4.3 WV 2212 GG & LL	Class 5.1 WV 2213 GG & LL
Class 5.2 WV 2214 GG & LL	Class 6.1 WV 2215 GG & LL	Class 6.2 WV 2216 GG & LL	Class 7 Category I WV 2217 GG & LL	Class 7 Category II WV 2218 GG & LL	Class 7 Category III WV 2219 GG & LL	Class 8 WV 2220 GG & LL	Class 9 WV 2221 GG & LL

## Hazard Warning Diamonds with Panel for UN Numbers

Class 2.1 WV 2231 LL	Class 2.2 WV 2233 LL	Class 2.3 WV 2234 LL	Class 3 WV 2232 LL	Class 4.1 WV 2235 LL	Class 4.2 WV 2236 LL	Class 4.3 WV 2237 LL		
Class 5.1 WV 2238 LL	Class 5.2 WV 2239 LL	Class 6.1 WV 2240 LL	Class 6.2 WV 2241 LL	Class 7 WV 2242 LL	Class 8 WV 2243 LL	Class 9 WV 2230 LL		



## Hazard Diamonds For The Carriage of Dangerous Goods

**Explosion risk**

**Explosion risk**

**Flammable gas**

**Non-flammable non-toxic gas**

**Toxic gas**

**Flammable liquid**

**Flammable solid**

**Spontaneously combustible substance**

**Substance which in contact with water emits flammable gas**

**Oxidizing substance**

**Organic peroxide**

**Toxic substance**

**Infectious substance**

**Radioactive substance category I**

**Radioactive substance category II**

**Radioactive substance category III**

**Corrosive substance**

**Other dangerous substance**

**Radioactive substance category I**

**Radioactive substance category II**

**Radioactive substance category III**

**Corrosive substance**

**Other dangerous substance**

Subsidiary Risk Labels  
Subsidiary risk labels are as shown below, but they should not bear the class number in the bottom corner.

Ref 1048 Y

1048 Y

## Hazchem Sign Guide Transportation

**Emergency (hazchem) code**

**UN number**

**Contact for special advise**

**Hazard warning diamond**

**Single load hazchem placard**

**Hazard warning diamond**

**Hazard Warning Panel for the Dangerous Substances in Harbour Regulations 1987**

**Company name**

**Orange Panel**  
To be displayed at front of any vehicle carrying dangerous goods and at rear of vehicles carrying dangerous goods in packages.

**2 W**  
**1910**

**UN number**

**Contact for special advise**

**1230**  
Multi-load Compartment Panel (panel showing methanol)

**Emergency Action Code Interpretation**

1	Water Jets	3	Fog
2	Water Fog	4	Dry Agent
P	Full	D	Dilute
R	BA	S	Spillage may be washed to drain with large quantities of water. However, due care must be taken to prevent unnecessary pollution of water courses.
S	BA Fire Only	V	Danger of a violent reaction of explosion.
T	BA	BA	Breathing Apparatus.
W	BA Fire Only	F	Full body protective clothing with breathing apparatus.
X	Full	E	Consider evacuation.
Y	BA	BA	BA Fire Only
V	BA Fire Only	Z	No toxicity risk is present in non-fire situations. Rescue may be effected by police/ambulance without BA if necessary.
Z	BA		
E	BA Fire Only		
PUBLIC SAFETY HAZARD			

1050 Y

## Hazardous Substance Symbols

**Flammable**  
Substances with a flash point above 21°C but below 55°C.

**Irritant**  
A substance which may sensitize the skin making it more prone to reaction and inflammation from other non-irritant substances. A material which on prolonged or repeated skin exposure can lead to inflammation and/or dermatitis.

**Extremely Flammable**  
Substances which have a boiling point of 35°C or below and a flash point of 0°C or below.

**Harmful**  
A substance which when swallowed, inhaled or absorbed through the skin can have limited adverse effects on health.

**Highly Flammable**  
Substances with a flash point of 21°C or below. Substances which may self heat and/or spontaneously ignite on contact with air at ambient temperature. Solid materials which will ignite and burn after brief contact with flame which react with water to evolve highly flammable gases. Solids which can ignite and react violently on contact with water.

**Toxic**  
A substance which when swallowed, inhaled or absorbed through the skin can have serious acute or chronic effects on health and may even cause death.

**Oxidizing**  
Substances which because of their oxidizing power, can react violently with other materials, notably combustible materials, causing fire. Mixtures of oxidizing materials with combustible materials are often explosive and materials normally regarded as non-combustible can become dangerously flammable if contaminated with oxidizers. Fires involving oxidizers are difficult to extinguish.

**Very Toxic**  
A substance which when swallowed, inhaled or absorbed through the skin, even in small amounts, can have very serious acute or chronic effects on health and may even cause death.

**Explosive**  
A substance which may explode, detonate or degenerate upon heating, contact with flame, friction, impact or other sources of energy.

**Corrosive**  
Substances which can 'burn' or destroy living tissues and have a significant corrosion effect on mild steel.

**Dangerous for the Environment**  
A substance which can have a detrimental effect on eco-systems, mainly aquatic, although it equally applies to fauna & microfauna and ozone depleting substances.

**Radioactive substances**  
Substances which emit spontaneously ionizing radiations.

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1049 Y

WV 2280 GG

WV 2281 GG

WV 2282 GG

WV 2283 GG

WV 2284 GG

WV 2285 GG

WV 2286 GG

WV 2287 GG

WV 2200 Z ▲  
80mm x 160mm

Available in: White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**

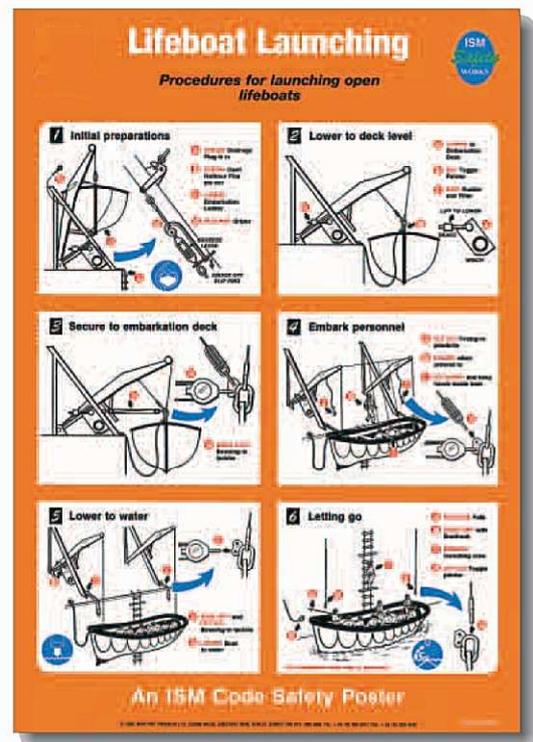
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See page 53 for Poster Holder



1001 W

## Liferaft Launching

*Procedures for launching inflatable liferafts*

### 1 Automatic Release



**DO NOT TRIGGER** this or similar devices

### 2 Manual Release



**DO NOT TRIGGER** manual slip hook

### 3 Launch Liferaft



**CHECK** Liferaft is made fast  
**CHECK** Liferaft area is clear  
**TRIGGER** liferaft into water

### 4 Inflate Liferaft



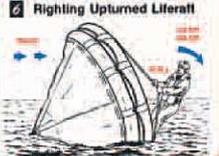
Never touch a liferaft until you are ready to use it  
**PULL ON THE STRAPS** until the liferaft inflates & pull it alongside

### 5 Automatic Release



If Allow check, liferaft will lower free, inflates and float to the surface

### 6 Righting Upturned Liferaft



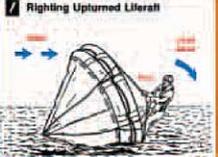
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## Inflatable Liferafts

*"Vital actions" after launching*

### 1 Righting Upturned Liferaft



### 2 Board Quickly



An empty liferaft can be vulnerable to damage

### 3 Move Clear Of The Ship



When everyone is on board

### 4 Stream The Sea Anchor



Use emergency pack when clear to provide extra stability and reduce drift rate

### 5 Close The Entrances



If possible, evacuate from sea and weather try to keep warm and dry. Open periodically for ventilation

### 6 Further Actions



Read the liferaft survival book provided

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1003 W

## Fully Enclosed Lifeboat Launching from Stowed Position

*Procedures for launching (SOLAS chapter III, regulation 28) See on-board training manual - drill frequently*

### 1 Initial preparations



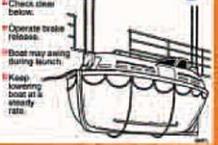
- Ensure liferaft securing pins are removed
- Disconnect electrical charge cable
- Close drain plugs
- Place E.P.I.R.E. and S.A.R.T. in boat
- Board when instructed, sit and listen to seat belts

### 2 Launch actions



- Release grip/securing wires
- Secure hatches
- If in a safe atmosphere, open vents
- If in a dangerous atmosphere, close vents
- Submerge jetties (if checked) can be worth by the boat's crew

### 3 Lower to water



- Check clear below
- Operate trouble releases
- Boat may swing during launch
- Keep lowering boat at a steady rate

### 4 Entering water



- Allow boat to settle in the water
- Keep brake off
- Release falls
- If falls do not clear/engage, operate emergency release as follows:
  - Break glass
  - Slide lever to green zone
  - Release falls

### 5 Letting go



- Start engine
- If in a dangerous atmosphere, open air supply and water spray valves
- Release painter when ready
- Slide away from ship

### 6 Final actions



- Rescue any swimming survivors if safe to do so
- When clear of vessel, stream sea anchors
- Operate E.P.I.R.E. and S.A.R.T.

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## Lifeboat Launching in a Dangerous Atmosphere

*Procedures for launching an enclosed lifeboat in a dangerous atmosphere*

### 1 Check direction to safe area



Before launching, note compass bearing of wind direction. Shortest course to safety is usually into the wind

### 2 Make ready



**NO STRONGS**  
Move to the liferaft (available seat and before seat belt)

When everyone is on board, ensure on charge status all hatches and ventilators

### 3 Start air supply for passengers and engine



**NO STRONGS**  
Open all bottle valves

Open air outlet valve of 'lead'

Air supply is limited to 5-10 minutes supply - do not waste it

### 4 Launch & start sprays



**NO STRONGS**  
When liferaft is in water, run the engine at full speed

Open the water valve or over. A pump will operate the spray system

### 5 Head for safety



**NO STRONGS**  
Ensure falls are released then steer clear on a compass course to a position where you will not drift back into danger

When well clear, open ventilators and shut off the air and water spray systems

Do not stop liferaft until out of danger

### 6 Important Information



**NO STRONGS**  
MCO symbols will be used to identify each item of equipment

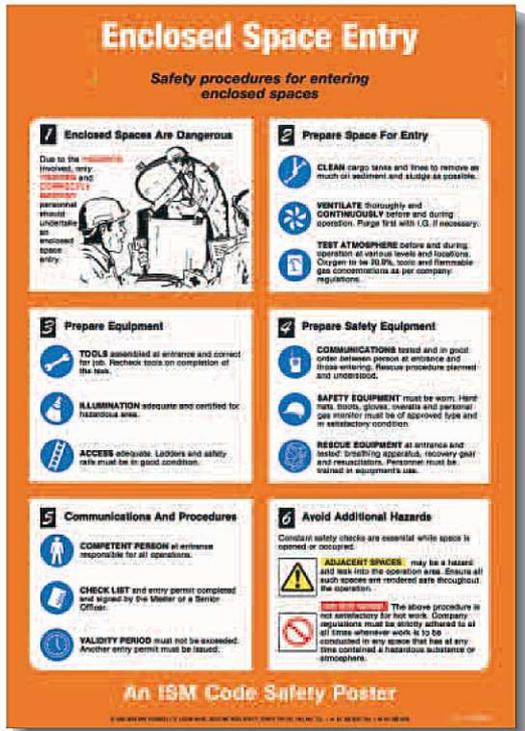
Read the training manual survival booklet or operator's handbook for further instructions

In an emergency, wear your liferaft at all times, ensuring it is correctly fastened. Wear warm clothing and a hat if possible

**REGULAR DRILLS ARE ESSENTIAL**

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1005 W



1006 W



1007 W

The above range of signs are available to be used in conjunction with poster 1007 W. The signs are printed on self adhesive white vinyl. Each sign type is supplied only in packs of 10.

- WV 10071 Z ▲ 54mm x 204mm
- WV 10072 Z ▲ 54mm x 204mm
- WV 10073 Z ▲ 54mm x 204mm
- WV 10074 Z ▲ 54mm x 204mm
- WV 10075 Z ▲ 54mm x 204mm



1008 W



1009 W

Available in: White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
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## Enclosed Space and Tank Rescue

**Safety procedures for recovering a casualty from a hazardous atmosphere**

### 1 Raise the alarm

**ACT IMMEDIATELY!**  
Summon assistance, provide details of the incident.  
Only send a rescuer to the confined space if it is absolutely essential and a rescue team is available to assist. Do not attempt to enter the confined space yourself.  
Stay at incident scene if safe. Observe casualty. Provide updated information to emergency team.

### 2 Start rescue

Rescue team to use procedures including breathing apparatus, personal gas monitors, rescue and communication equipment. Check all equipment for correct function. First aid team ready with resuscitative equipment.

### 3 Emergency first aid and rescue

Resuscitate and stop serious bleeding.  
Carry out rescue maintaining radio contact with safe area.

### 4 First aid and after care

Administer first aid in safe area.  
Move casualty to medical room when safe. Consider evacuation from ship if required.

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1017 W

## Free Fall Lifeboat Launching

**Procedures for launching a free fall lifeboat**

### 1 Muster crew

- Switch on floodlights if required.
- Where inflatable lifejackets are provided do not inflate until after launch.
- Bravo lifeboat is clear to launch with recovery sling and gross disconnected.
- Open embarkation door.

### 2 Launching checks

- Check launching area is clear of all obstructions.
- Check water is deep enough for freefall launch.
- Helmsman orders boat and starts engine.

### 3 Helmsman's actions

- Engine running satisfactory. Stop engine and set controls for restart after launch.
- Set propeller in neutral.
- Set wheel amidships in '0' position.
- Close automatic drain plug.
- Disconnect ship to boat electric plug.

### 4 Embarkation

- Survivors embark to designated seats.
- Close hatches and ventilators.
- Close and secure door.
- Fasten seat belts and head restraints.
- Helmsman checks all secure.

### 5 Launching

- Everybody brace. Use brace bars where provided.
- Helmsman operates hydraulic release and if this fails, operates emergency release.

### 6 Further actions

- After launch, re-start engine.
- Open ventilation or operate compressed air supply and spray if required.
- Clear area and operate radio distress signals.

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1020 W

## Towing

**Recommended procedures for safe towing operations**

### 1 Making fast

Establish clear communication with tug.  
All lines to be used in proper manner.  
All equipment to be in good order.  
No oil on deck.  
Tug warning: red.  
Personnel stay in the foot of the cable.  
Release when tug indicates it is fast.

### 2 Making fast

Use correct gear for proposed towing.  
Use correct method of securing cable.  
Check the cable properly.  
Establish clear communication.  
Use correct order of fastening.  
Ensure all equipment is in good order.  
Release warning to tug when fast, and standby for tugging.

### 3 Towing or trailing

Use correct gear for prevailing weather conditions.  
Keep all deck equipment clear.  
Watch clear of towing area when gear is under load.  
Do not stand on top of cable when the tug is pulling.

### 4 Under tow

Do not stand on cable.  
Stand clear from the cable.  
Remember to wear life jackets.  
Remember to wear life jackets when the tug is pulling.  
Keep your attention on the tug.  
Release gear when ordered when tug is single.

### 5 Letting go

Do not stand on the cable when releasing the warning.  
Release cable when the tug is pulling.  
Be aware that the tug can lose the cable during recovery.  
Use hand signals to tug.  
Release the cable when the tug is pulling.  
Release the cable when the tug is pulling.  
Release the cable when the tug is pulling.

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## Bunkering

**Safety procedures before, during and after bunkering**

### Before Bunkering

- Establish communications between ship and bunker barge.
- Fit the lighting equipment.
- Position drip trays and save oil.
- Plug stoppers.
- Post 'No Smoking' and 'No Naked Light' signs.
- Close scumco, ventpipes and air conditioning intakes.
- All oil leaks to greatest extent on end fitting.
- Wetted and barge are moored securely.
- Safe access between ship and bunker barge.
- The deck watch is fully briefed.
- Emergency shut down procedure is discussed and agreed.
- Timetree, valves and all other electrical equipment is suitable for hazardous area operation.
- Suitable protective clothing is available and being used.
- All personnel involved in the operation are aware of designated escape routes.
- Sufficient personnel are retained on board to deal with an emergency.
- Bunkering area is adequately lit.

### During Bunkering

- Take periodic witnessed oil samples.
- Reduce loading rate before leaving off.
- Close valves at each tank is loaded.
- Notify bunker station barge when final tank is being filled.
- Allow sufficient storage in clean hoses and lines.
- Supply the pressure and temperature.
- Tank levels, and that adjacent tanks are not being filled.
- Loading rate.
- Bunker deck vent systems.

### After Bunkering

- Close and break off ventpipes.
- Stand off hoses before lifting it over the side.
- Unplug stoppers and open drains.
- Drain and store ship hoses.
- Plug up any drips and minor spills.
- Send bunker samples for analysis.
- All fitting valves are closed.
- All lines and hoses have been drained and blanked.
- All bunker tank vents, adjoining tanks etc, are secured.
- All areas are free from oil and all equipment is stowed correctly.

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## Post Oil Spill Actions

Recommended procedures to minimise the effect of an oil spill

**Warning:** The International Convention for the Prevention of Pollution from Ships (MARPOL, 2011) aims to prevent the complete prohibition of intentional pollution of the marine environment by oil and other liquid substances. Oil spill regulations are the environment of the great nations. REMEMBER HEAVY FINES AND CIVIL LIABILITY CAN BE IMPOSED IF THE MARPOL CODE IS VIOLATED!

### 1 On discovering shipboard spill

- Stop pumping
- Immediately notify the Officer of the Watch.
- Ensure everyone is alerted
- In repetitive situations, means for prevention and extinguishing equipment
- Identify appropriate activities as necessary
- Refer to SOPEP Procedures for spill oil
- Post "No Smoking" and "No Naked Lights" signs

### 2 Deck containment

- Wear protective clothing
- Prevent oil flow contained at all costs
- Make ready any shore coexistence containment equipment
- Operations using available onboard equipment and materials
- Cleaning methods and materials must be carefully chosen prior to deployment

### 3 On discovering external spill

- Stop pumping
- Locate source of leakage
- Check and record deck equipment
- Close containment of spill oil
- Respond promptly to all commands from Officer in Charge
- Refer to SOPEP Procedures for spill oil
- Identify appropriate activities as necessary
- Refer to SOPEP Procedures for incident communication methods
- Post "No Smoking" and "No Naked Lights" signs

### 4 Ship actions for external spill

- Close necessary sea water suction
- Transfer oil from affected tanks
- Discontinue up-ward air flow from deck
- Assess damage
- Log oil spill incident

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1023 W

## Hot Work

Recommended safety preparation for hot work

### 1 Plan the work

Hot work is any operation which produces sufficient heat to ignite flammable products by welding, cutting and grinding

Plan the work, carry out the assessment considering working conditions, fire, cutback prevention to maintain and maintain, equipment, permit-to-work and enclosed space entry procedures

Plan emergency escape routes and suitable communication and emergency signals

### 2 Minimise the dangers

Consider avoid down flammable vapour reaching the hot work area and heat transfer to adjoining pipes and tanks

Ensure personnel are using suitable protective systems and equipment

Post warning notices and protect other personnel from sparks, fumes and electric arcs

### 3 Prepare work area

Remove all debris from work area

Isolate the hot work area

Flame and flame should be confined by light and gas shield, open pipes should be blocked off

Flame jacks and fire with water before opening to prevent smoke, ventilation and fume extraction must be in continuous operation and gas free certificate issued by an authorized person

### 4 Safety during and after work

Post the work with appropriate equipment and clear view of work area. Ensure fire lines are not cut, pressured and tested

Working fire cutting equipment must be in operable condition. Arc, sparks must be contained and gas cutting must be safety tested and secured

DO NOT TOUCH HOT WORK SURFACES OR EQUIPMENT UNTIL THEY HAVE COOLED DOWN TO A SAFE TEMPERATURE

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1024 W

## Working Aloft or Outboard

Be aware of the risks when working outboard and aloft

### 1 Preparation

- All equipment stored in cool dry ventilated stack
- Ensure equipment is in date, has current test certificate if applicable and checked by competent
- Checklist must include all heavy hazards
- Remove points for crew and blocks must be removed for adequate strength

### 2 Risk awareness

- Sea State
- Exhaust Gases
- Radar
- Ships Whistle
- Aerial Radiation
- Overboard Discharge
- Falling Objects
- Propellers

### 3 Briefing

- Crew briefed on job and emergency actions
- Rescue equipment to be located
- Warning signs and colour of the work
- Post warning signs
- Check weather forecast
- Clearly establish communication methods
- Weather forecast to be aware of severe aloft work
- Have back-to-back

### 4 Working aloft

- Wear safety harness
- Use two lanyards - keep one attached at all times
- Carry tools in secured belt or bag
- Remove gloves, boots and clothing if necessary
- Think in feet, arms and all free
- Clear area below and confirm safe
- Preparation must be signed off by third - do not use 2nd party

### 5 Use of portable equipment

- When using a portable fan, ensure base of stack is not on top of the fan
- Secure tops of portable ladders
- Ensure angles and rung secure
- Do not use portable before its expiry
- Always rigging on fixed structure
- Stability hazard to be aware of working height increases

### 6 Working outboard

- No outboard working when underway
- Ensure outboard is always secured to fixed structure and not in an emergency
- Eliminate and use ready
- Lanyards to be used at all times
- Access ladder may not enter ladder
- Believe in the work when searching or lifting
- Use of portable to be equipped in start

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1025 W

## Personal Protective Equipment

Choosing the correct equipment for your safety

### 1 Head Protection

Protects from falling objects, swinging beams and other heavy objects. Helmets, caps and full safety hats. Can be used in a variety of ways. Must be properly fitted. Must be used in the correct way. Must be replaced if damaged.

### 2 Eye Protection

Protects from Low energy particles such as dust, dirt, chemical splashes and debris. Can be used in a variety of ways. Must be properly fitted. Must be replaced if damaged.

### 3 Respiratory Protection

Protects from harmful gases, vapours and dusts. Must be used in the correct way. Must be properly fitted. Must be replaced if damaged.

### 4 Hearing Protection

Protects from hearing damage. Available in a variety of ways. Must be properly fitted. Must be replaced if damaged.

### 5 Skin Protection

Protects from heat, cold, wet, dry, and other environmental conditions. Available in a variety of ways. Must be properly fitted. Must be replaced if damaged.

### 6 Hand Protection

Protects from cuts, abrasions, burns, and other environmental conditions. Available in a variety of ways. Must be properly fitted. Must be replaced if damaged.

### 7 Foot Protection

Protects from slips, trips and falls. Available in a variety of ways. Must be properly fitted. Must be replaced if damaged.

### 8 Specialized Equipment

Protects from specific hazards. Available in a variety of ways. Must be properly fitted. Must be replaced if damaged.

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1028 W







### Davit Launched Liferafts

*Procedures for davit launching inflatable liferafts*

**1 Prepare launch area**

- Remove handrail section on davit.
- Unfasten and temporarily transfer to launch position, ensuring liferaft is correctly positioned.
- Locks and support struts checked.

**2 Prepare canister**

- Secure canister (see instruction).
- Secure liferaft lines.
- Watch look-out for obstacles.
- Align davit against pressure of canister.

*Ensure all lines are free of snags and correctly connected to avoid snagging.*

**3 Raise raft and turn out davit to preset position**

- Control both ends and liferaft as it rises.
- Secure end of pattern.
- Push out for length of pattern.
- Push out for length of pattern. Don't give a sharp pull at the davit.

**4 Embarkation procedure**

- Tighten liferaft lines and secure raft.
- Push person board from platform with floating collar (EPFD) and DAV.
- Person in liferaft board pressing weight in entry mechanism.
- Crosses back and liferaft systems are now in position.
- Deploy pattern (inflator) and ensure it will not jam.
- Stand clear until raft is fully inflated. Do not move overhead.

**5 Lower liferaft**

- Check that liferaft is correctly lowered.
- Reduce lowering rate until raft is in water.
- Check liferaft is in water.
- Lower raft using brake release.

**6 Release liferaft**

- Operator brake release throughout descent.
- Operator brake release (water shock) stops.
- Allow raft to impact (time and force will be designed to absorb impact).
- Call pattern and liferaft lines immediately to allow further launches.

*Small rafts of capacity may vary between different manufacturers. Refer to the safety manual whenever possible.*

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1045 W

### Evacuation Chutes & Slides

*Abandon ship procedures using vertical chutes or angled slides*

**1 When emergency signal sounds**

- Prepare rafts, chutes or slides for launching according to instructions.
- Remove guard rails and open doors.
- Do not launch until given abandon ship commands.

**2 Preparing to use the chute or slide**

- All persons using the chute or slide must leave their luggage behind.
- All shoes and sharp objects must be removed.
- All persons using the chute or slide must be wearing headsets.

**3 Using vertical chutes**

- Check that shoes and sharp objects are removed.
- Sit at chute edge and take hold of grab-bar.
- Swing forward and let go of bar.
- Descent is controlled by the construction of the chute.

**4 After descending the chute**

- On reaching the platform at the bottom of the chute, quickly clear the area for the next person by moving left or right.
- Follow the instructions of crew members to board the liferafts.

**5 Using angled slides**

- Check that shoes and sharp objects are removed.
- Cross arms over chest and hold headsets.
- Jump onto the slide, use legs and elbows to control speed of descent and keep feet raised until after landing.

**6 After descending the slide**

- On reaching the platform at the bottom of the slide, quickly clear the area for the next person by moving left or right.
- Follow the instructions of crew members to board the liferafts.

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1046 W

### Self Contained Breathing Apparatus

*Safety procedures for using apparatus in hazardous conditions*

Where recharging facilities are not available, empty and low charged cylinders should be labelled and stored elsewhere. Check all certificates are valid. Read and learn the makers instructions.

**1 Check weekly and before using**

- Storage in face mask, air hose, bottles, gauges and belts, all straps on harness, lifelines, axes and survival tools.
- Check air in all cylinders on the unit, and in reserve cylinders.
- Examine air with low pressure for recharging.
- Ensure correct operation of air pressure gauges.
- Check the pressure warning device.

**2 Donning the breathing apparatus**

- Put the set up in clean air.
- Place the arms through shoulder straps.
- Position cylinder high at the back.
- Adjust shoulder straps.
- Tighten the waist belt.

**3 Adjusting and checking the functions**

- Place face in mask, chin held.
- Tighten straps, bottom to top.
- Test air tightness of mask, air supply and warning device. Instructions makers instructions.
- Fully open air supply and breathe normally.

**4 Preparing to enter compartment**

- Clap on lifelines.
- Check and remember lifeline signals.
- Carry the lifelines or other tools and equipment.

**5 Start operation**

- Keep a record of each 15 minute breathing interval.
- Ensure first aid and secondary rescue team are ready.

**6 After operational use**

- In contaminated air.
- Check all parts for damage and cleanliness.
- Remove used cylinders and recharge with clean air.
- Check and clean face mask, following manufacturer instructions and place in protective cover.
- Hang up the apparatus in a clean, dry, well-ventilated area.
- Wipe down the apparatus with a clean, dry cloth.
- Wipe down the apparatus with a clean, dry cloth.
- All equipment must be kept ready for immediate use.

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1047 W

### Mooring

*Procedures for Mooring / Unmooring*

**1 Prior to Arrival**

- Review of operational requirements and local conditions.
- Procedures for fully moored and unmoored conditions.
- Assigning roles, when and where to stand, when to board, when to disembark.
- Check the condition of mooring equipment and lifelines.
- Assign mooring duties to crew members.
- Assign mooring duties to crew members.

**2 On Pilot Boarding**

- Review operational requirements and local conditions.
- Check communication with the pilot and ensure that the pilot is aware of the vessel's position.
- Review the status of mooring equipment and lifelines.
- Assign mooring duties to crew members.
- Assign mooring duties to crew members.

**3 On arrival of Tugs**

- Do not board in light.
- Stand on deck from the stern.
- When a tug is alongside, ensure that the vessel is secure.
- When a tug is alongside, ensure that the vessel is secure.
- When a tug is alongside, ensure that the vessel is secure.

**4 During Mooring**

- Ensure that it is safe to board or disembark.
- Ensure that it is safe to board or disembark.
- Ensure that it is safe to board or disembark.
- Ensure that it is safe to board or disembark.
- Ensure that it is safe to board or disembark.

**5 Tending to moorings**

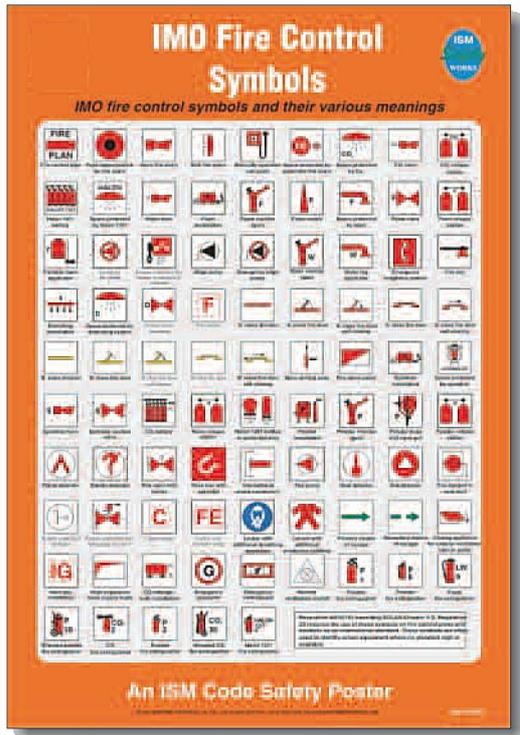
- Assign mooring duties to crew members.

**6 Casting off**

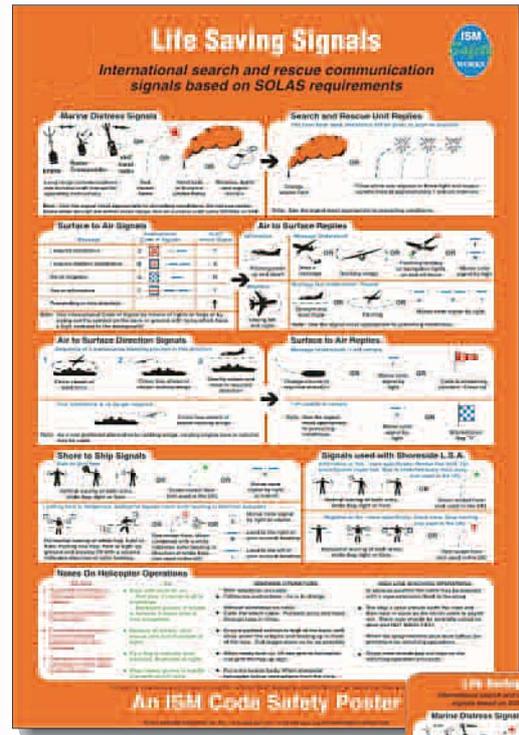
- Assign mooring duties to crew members.

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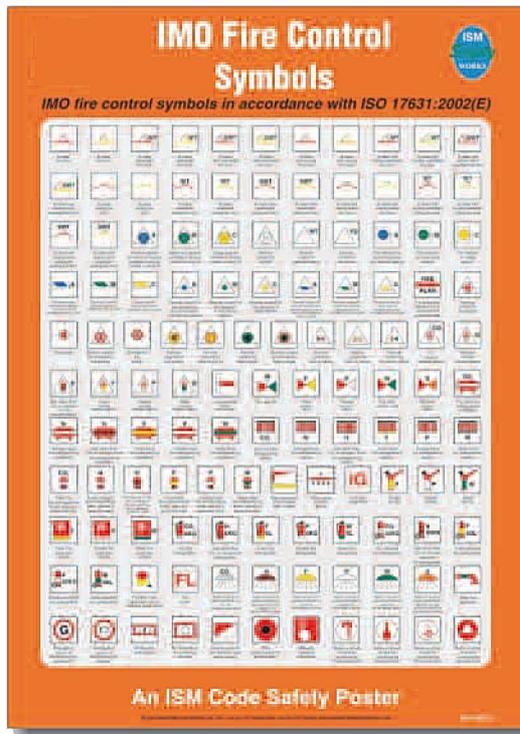
1064 W



WP 1057 X  
 (double laminated paper)



SOLAS Poster  
 WV, WR 1058 W



WP 1067 X  
 (double laminated paper)



WV, WR 1027 Y

Available in: White, self adhesive vinyl . . . . . Prefix: WV  
 White, rigid PVC . . . . . Prefix: WR  
 White, paper (laminated). . . . . Prefix: WP  
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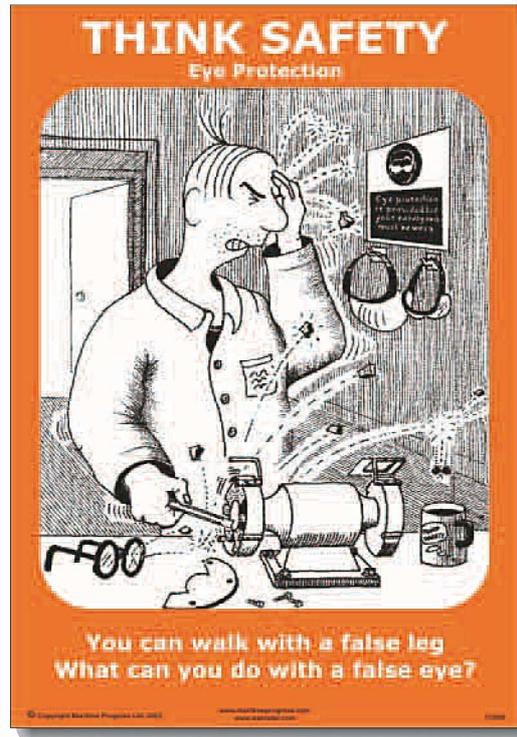


## "Think Safety"

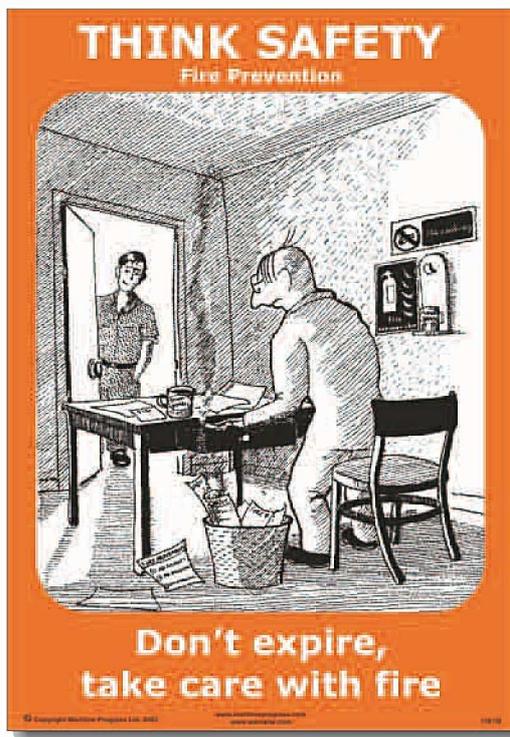
With this edition of the brochure we are pleased to announce the introduction of a new range of "Think Safety" posters featuring our invented character. Printed on 475 x 330 self adhesive vinyl, these appealing new posters are intended to highlight some of the most commonly occurring safety issues currently found in the marine industry. It is intended that the range of titles will be extended in the future to cover many more safety issues along with topics such as the new ISPS regulations.

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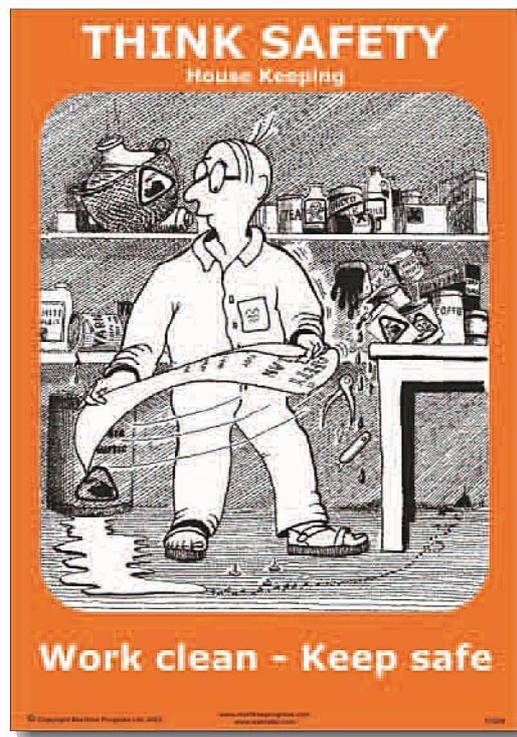
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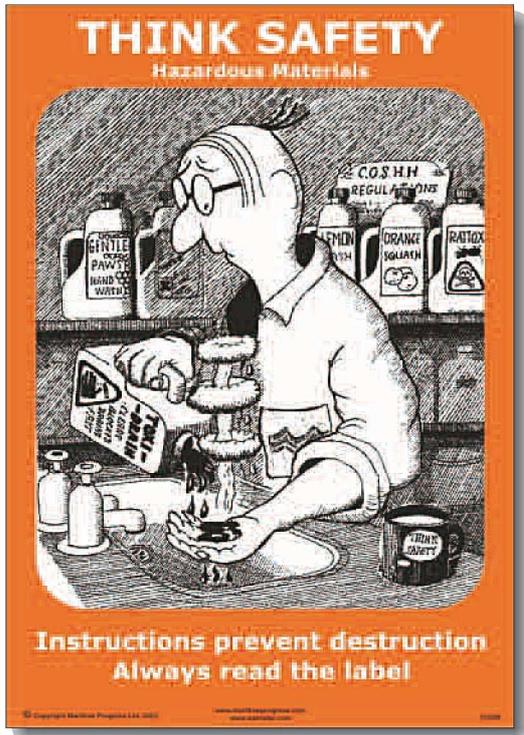
1100 W



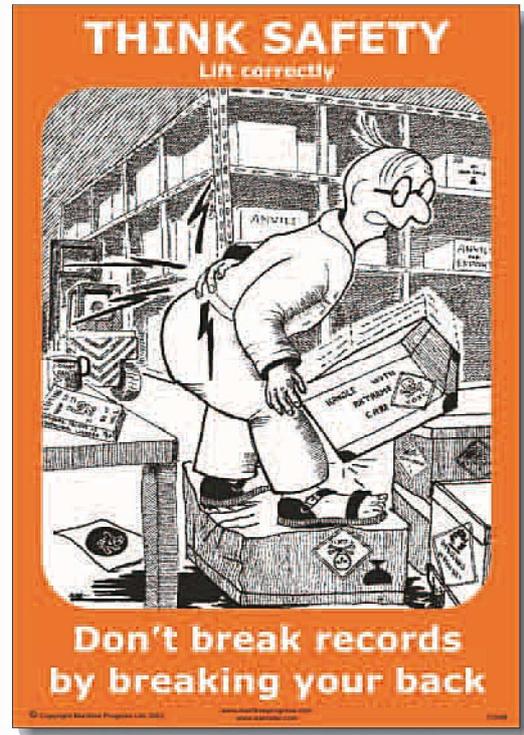
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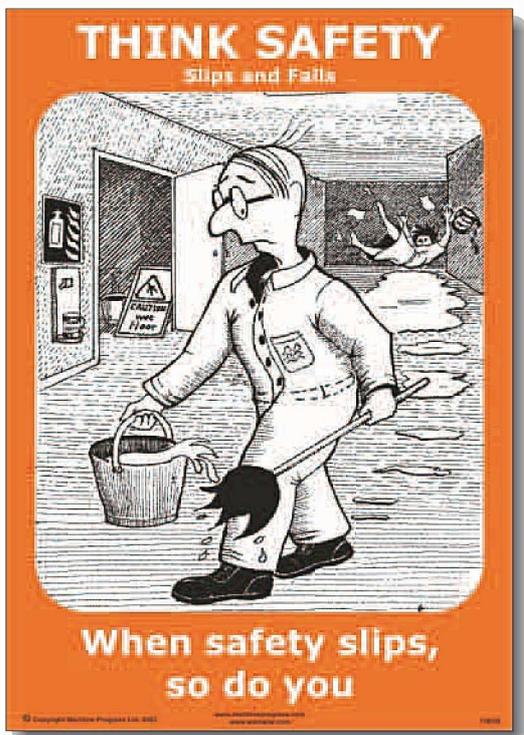
1102 W



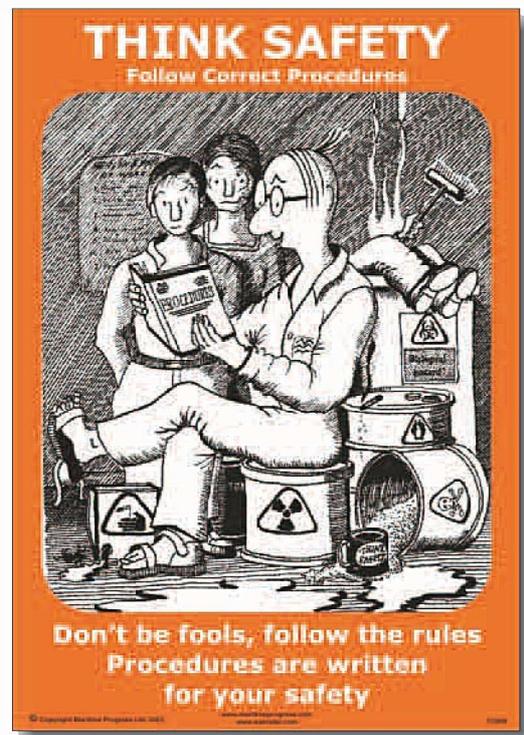
1103 W



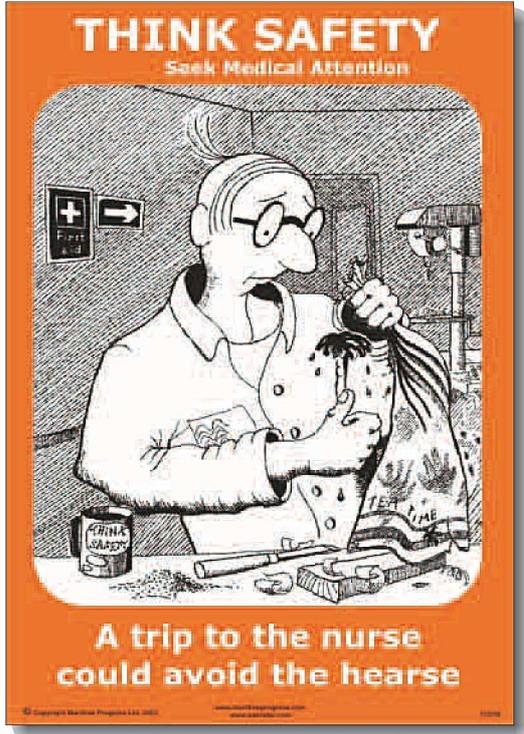
1104 W



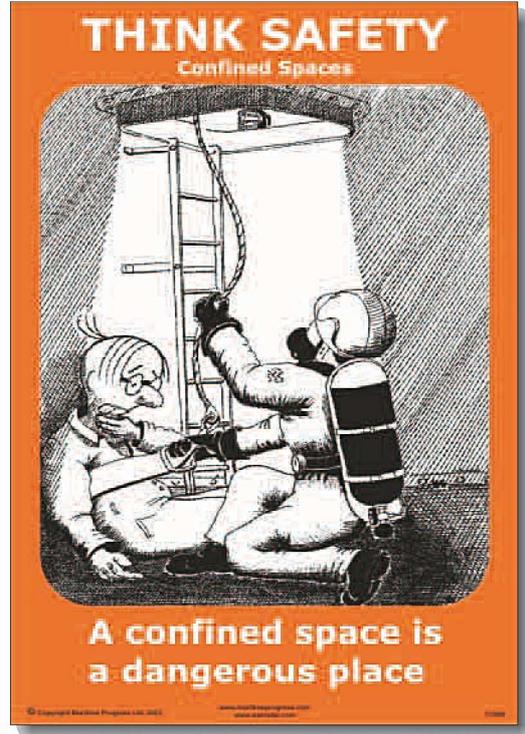
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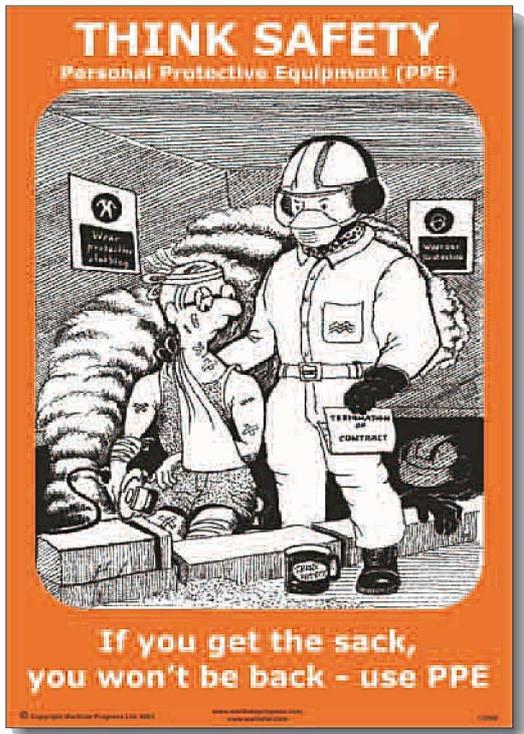
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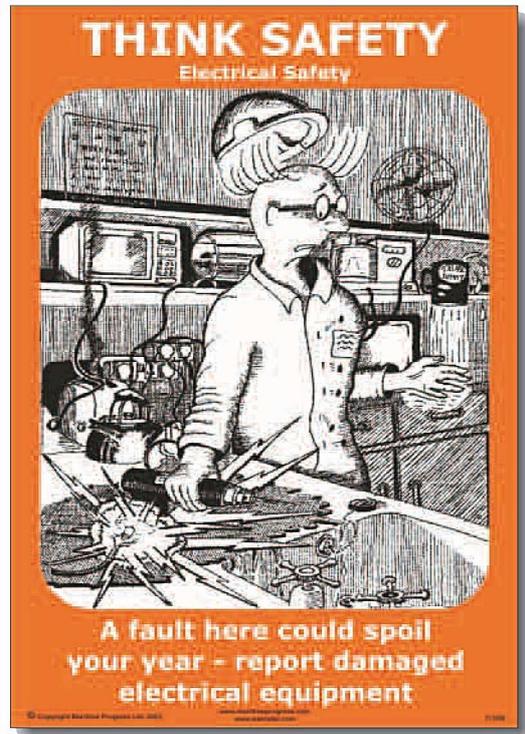
1107 W



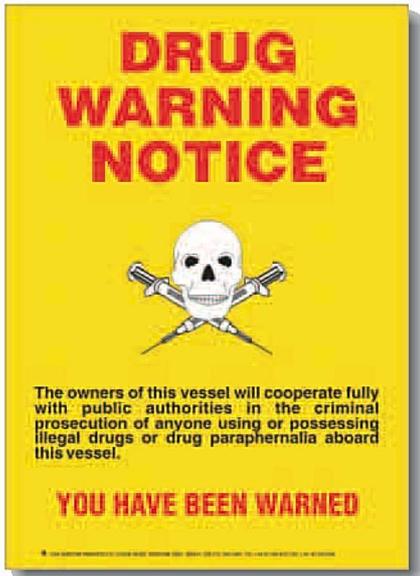
1108 W



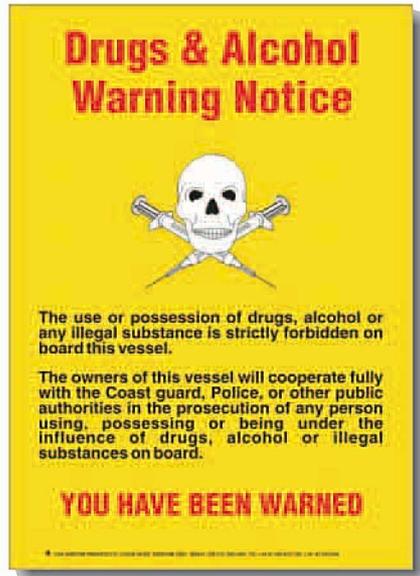
1109 W



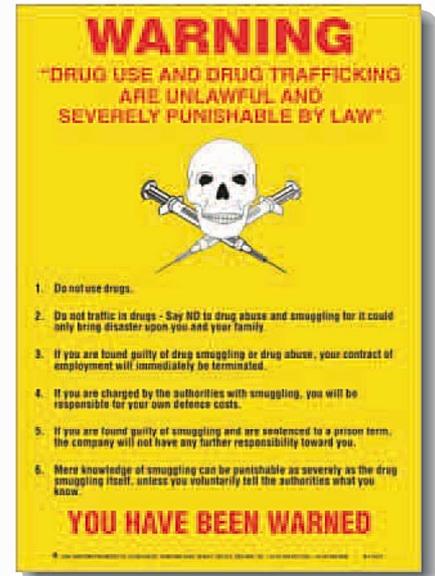
1110 W



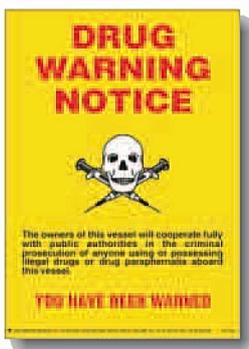
Drugs Warning  
1037 Y



Drugs & Alcohol Warning  
1039 Y



Drugs & Trafficking Warning  
1041 Y



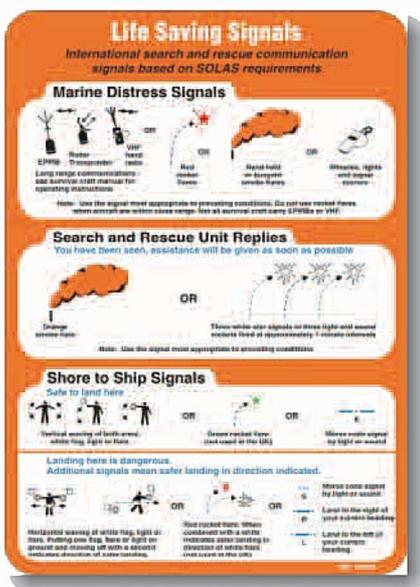
Cabin Drugs Warning  
1038 Z ▲  
105mm x 150mm



Cabin Drugs & Alcohol Warning  
1040 Z ▲  
105mm x 150mm



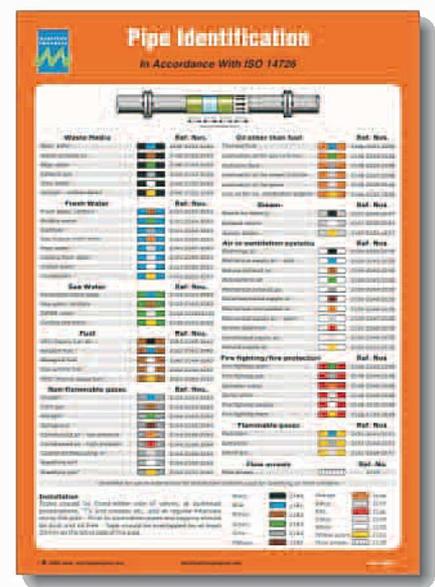
Discharge of Oil Prohibited  
1043 Y



SOLAS No 2 CARD  
WR 1059 Z ▲  
210mm x 148.5mm



Garbage Poster 1042 Y  
Complies with MARPOL Annex V



Pipe Colour Identification Poster  
1066 Y

Available in: White, self adhesive vinyl . . . . . Prefix: WV  
White, rigid PVC . . . . . Prefix: WR  
**Add this prefix to the reference number when ordering**

Where the material prefix is shown along with the reference number, the sign is only available in the specified material. Items shown with ▲ are individually priced.

# 50 Sign Fixings and Way Finding Matting

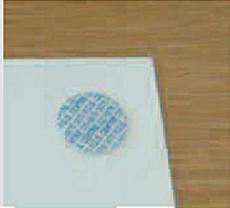
1



**Magnetic Sticky Strips**  
For fixing signs to metal doors and bulkheads. Useful where signs need only be temporarily displayed. 300mm long and can be cut to length. Sold in packs of 10.

2800 ▲

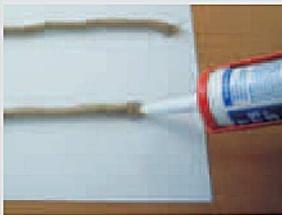
2



**Double Sided Sticky Pads**  
For fixing signs to all surfaces. Acrylic adhesive pad offers a strong, permanent bond. Sold in sheets of 49.

2801 ▲

3



**Sign Adhesive**  
A solvent based gunning adhesive offering the strongest fixing to all types of surface.

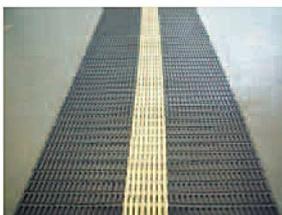
2802 ▲



**Applicator Gun**  
To accept all standard size cartridges (adhesive not included)

2803 ▲

4



**Photoluminescent Matting**  
A strong durable non slip, oil resistant mat with a photoluminescent strip along the centre.

2351 ▲

5



**Deckhead Fixing**

Used for fixing signs to the deckhead. Two of these new fixings are clipped to the top of the sign and the whole assembly stuck to the deckhead with the pre-fitted sticky pads. The fixing can grip either one or two signs allowing double sided signs to be displayed. The unique flexible section incorporated in the moulding allows the sign to swing if knocked, preventing damage to the sign. Sold in packs of 10.

2804 ▲



5



**Deckhead Suspension Kit**

Employed where the deckhead fixing places the sign too high. The kit is assembled in a similar way to the deckhead fixing but the clear PVC strip can be cut to length to suit the application. Sold in packs of 10.

2805 ▲

Utilising our 'Direct to Print' technology we have the ability to offer **Custom Made Signs at surprisingly low costs**. The machinery employs, thermally welds coloured resin directly to either white or photoluminescent vinyl. This technology opens up numerous possibilities of offering 'One Off' Signs in various languages and labels or signs to identify specific hazards or piece of equipment on board a vessel.

Being computer originated, e-mailed files in most common formats can be accepted directly from customers and re-worked, allowing signs to be produced within a matter of hours if required. Additionally with bespoke signage, company logos or names can be added, usually at no extra cost, personalising the signs to a specific company or vessel.

Where quantities are sufficiently high, usually around 25, we can screen print signs to customers requirements within a day or two.

Shown right are just a few examples of bespoke signs produced in the past, demonstrating the various possibilities.

