

 **Segursinal**[®]

Maritime photoluminescent safety signs







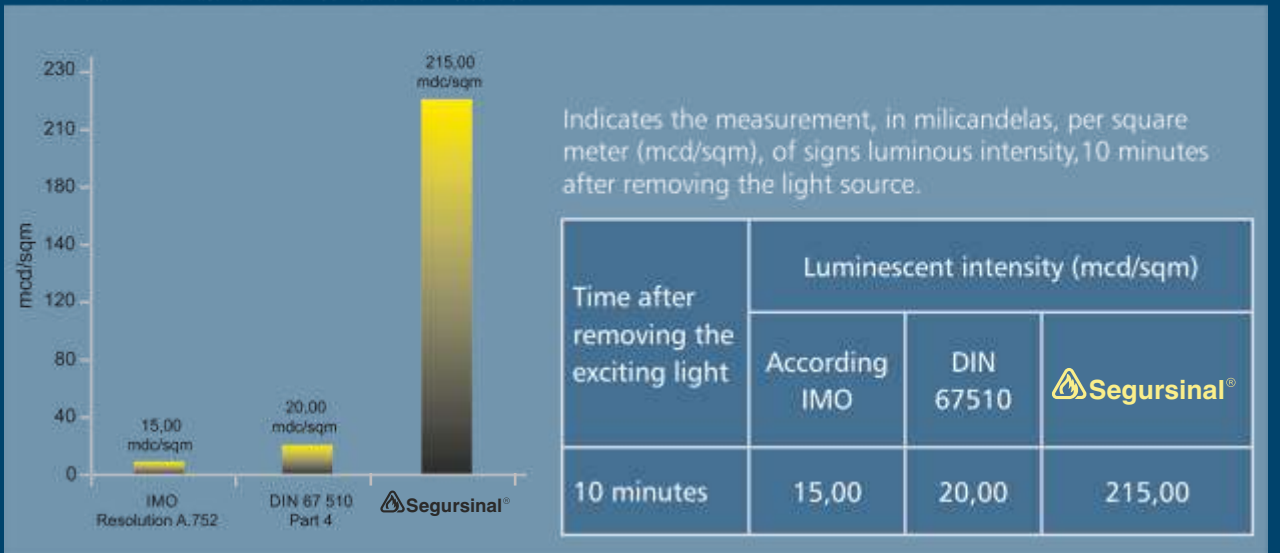
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- 90. Numbers
- SAFETY PLANS**
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Technical characteristics of Segursinal® photoluminescent signs

MATERIAL
Photoluminescent rigid plastic 2,00mm thickness (+-) 0,1mm
PRINTING
Serigraphy, high quality gloss paint with UV resistance and a 5 years guarantee
FIRE RESISTANCE
Flame retardant according to IEC 60092 - 101: 2002 and IMO FTPC Part 5 (IMO Res. A. 653 (16))
SURFACE
Antistatic and easy to clean
CHEMICAL CHARACTERISTICS
Non-radioactive, non-phosphorous, lead free and poisonless

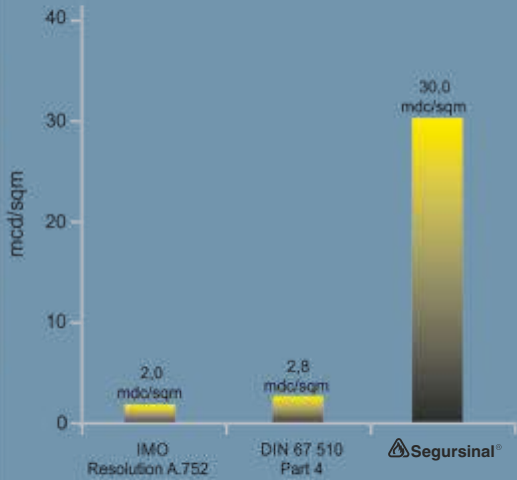
Luminescent Intensity: 10 minutes





Technical characteristics of Segursinal® photoluminescent signs

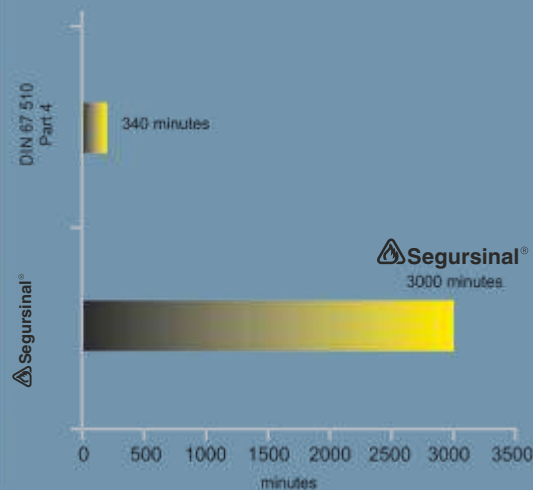
Luminescent Intensity: 60 minutes



Luminous intensity, 60 minutes after removing the light source.

Time after removing the exciting light	Luminescent intensity (mcd/sqm)		
	According IMO	DIN 67510	Segursinal®
60 minutes	2,0	2,8	30,0

Period of light decay (minutes)



This is the time, in minutes, during which luminescent intensity is higher than 0,32 mcd/sqm, a value approx. 100 times greater than the limit of visibility

Luminescent intensity greater than 0,32 mcd/sqm	Period of light decay (minutes)		
	According IMO	DIN 67510	Segursinal®
60 minutes	--	340	3000

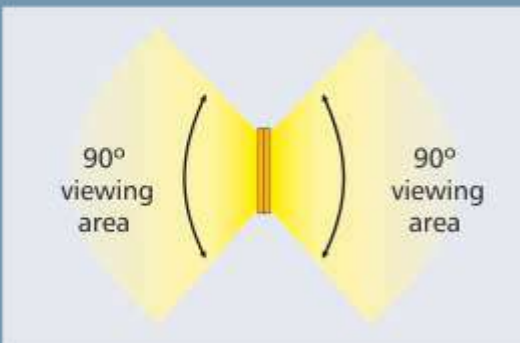


Alternatives for mounting signs

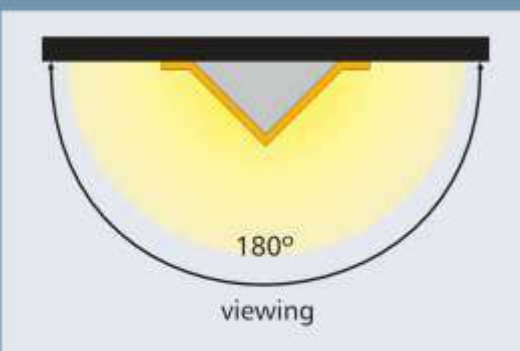
For the correct functioning of the signs, they must be mounted according to the correct viewing angle.



TYPE 1
Surface printed parallel wall mounted sign.



TYPE 2
Suspended double-sided sign, to be hung from the ceiling. The sign is supplied with holes on the top corners allowing appropriate fixings to be used (fixings not supplied).



TYPE P
Panoramic signs. This signs are printed on both exterior surfaces and guarantee a viewing angle of 180°. The sign with greatest visibility area.





All the signalization  Segursinal® and  Segursinal®LLL are strictly produced in accordance to the following International Standards and Legislation:

IMO Resolution A.654(16) adopted on 19 October - Graphical symbols for fire control plans

IMO Resolution A.752(18) adopted on 4 November 1993 - Guidelines for the evacuation, testing and application of low-location lighting on passenger ships

IMO Resolution A.760(18) adopted on 4 November 1993 - Symbols related to life-saving appliances and arrangements

IMO Resolution A.952(23) adopted on 5 December 2003 - Graphical Symbols for shipboard fire control plans

SOLAS Convention 2004 chapter II-2 Regulation 13.3.2.5 - Construction - Fire protection, fire detection and fire extinction - Means of escape - Marking of escape routes

SOLAS Convention 2004 chapter II-2 Regulation 13.7.2.2 - Construction - Fire protection, fire detection and fire extinction - Means of escape - Instruction for safe escape

SOLAS Convention 2004 chapter III-Regulation 9.2.3 - Life-saving appliances and arrangements - Operating instructions

MARPOL 73/78 adopted on 17 February 1978 - International Convention for the Prevention of Pollution from Ships

ISPS Code 2003 adopted on 12 December 2002 - International Ship and Port Facility Code

ICAO and IMO document 9636 - International signs to provide guidance to persons at airports and marine terminals

IMDG Code 2010 Edition - International Maritime Dangerous Goods (IMDG) Code

ISM Code 2010 Edition - International Safety Management (ISM) Code

European Commission Directive 2002/25/EC adopted on 5 March 2002 - Amending Council Directive 98/18/EC on safety rules and standards for passenger ships

ISO 24409-1:2010 - Ships and marine technology - Design, location and use of shipboard safety signs, safety related signs, safety notices and safety markings - Part 1: Design principles

ISO 16069:2004 - Graphical symbols - Safety signs - Safety way guidance systems (SWG5)

ISO 7010:2011 - Graphical symbols - Safety colors and safety signs - Registered safety signs

ISO 3864-1:2011 - Graphical symbols - Safety colors and safety signs - Part 1: Design principles for safety signs and safety marking

ISO 3864-2:2004 - Graphical symbols - Safety colors and safety signs - Part 2: Design principles for product safety labels

ISO 17631:2002 - Ships and marine technology - Shipboard plans for fire protection, life-saving appliances and means of escape

ISO 15370:2010 - Ships and marine technology-Low location lighting (LLL) on passenger ships-Arrangement

ISO 14726:2008 - Ships and marine technology - Identification colors for the content of piping systems

ISO 20712-1:2008 - Water safety signs and beach safety flags - Part 1 Specifications for water safety signs used in workplaces and public areas

BS 5499 -11:2002 - Graphical symbols and signs. Safety signs, including fire safety signs.Specification for geometric shapes, colors and layout

DIN 67510-1:2009 - Photoluminescent pigments and products - Part 1:Measurement and marking at the producer

DIN 67510-4:2008 - Phosphorence pigments and products - Part 4: Products for phosphorescent escape route systems - Marking and applications

MCALY2 published on September 2007 - The large Commercial Yacht Code (LY2)



Signs according to the symbols for fire protection appliances according to IMO A.654 (16), IMO A.952 (23) and ISO 17631

size (mm)
150X150

FIRE PROTECTION IMO



80.001
Fire control plan



80.002
Manually operated call points



80.003
Push button for general alarm



80.004
bell fire alarm



80.005
Manually operated call points



80.006
Space protected by automatic fire alarm



80.007
Control panel for fire detection and alarm system



80.008
Fire station



80.009
Locker with fireman's outfit



80.010
Emergency generator



80.011
Control system



80.012
Fire locker



80.013
Inert gas installation



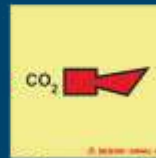
80.014
Horn



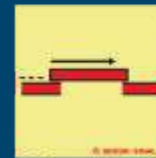
80.015
Haka horn



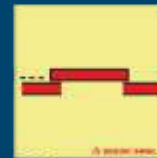
80.016
Sprinkler horn



80.017
CO2 horn



80.018
A class sliding fire door self-closing



80.019
A class sliding fire door self-closing



80.020
A class fire door self-closing



80.021
A class fire door



80.022
B class sliding fire door self-closing



80.023
B class sliding fire door



80.024
B class fire door self-closing



80.025
B class fire door

Signs according to the symbols for fire protection appliances according to IMO
A.654 (16), IMO A.952 (23) and ISO 17631

size (mm)
150X150



80.050
Remote ventilation
shut-off for
accommodation
and service spaces



80.051
Remote ventilation
shut-off for cargo
spaces



80.052
Remote ventilation
shut-off for
machinery spaces



80.053
Remote control for
emergency bilge
pump



80.054
Remote ventilation
shut-off



80.055
Remote control for
watertight doors



80.056
Remote control
for fire dumpers in
accommodation
and service spaces



80.057
Remote control
for fire dumpers in
cargo spaces



80.058
Remote control
for fire dumpers in
machinery spaces



80.059
Remote control for
skylight



80.060
Remote controlled
skylights



80.061
Remote control for
closing devices of vent.
inlet and outlet in accom.
and service spaces



80.062
Remote control for
closing devices of
vent. inlet and outlet
in machinery spaces



80.063
Remote control for
closing devices of vent.
Inlet and outlet in
cargo spaces



80.064
Lube oil pump(s)
remote shut-off



80.065
Fuel oil pump(s)
remote shut-off



80.066
Remote control for
fire pumps



80.067
Remote control for
pumps



80.068
Remote control
for fire
pump(s) valves



80.069
Remote control
for lube oil
valves



80.070
Remote control
for fuel oil valves



80.071
Remote control
for fire doors



80.072
Remote control
fuel lubricating oil
valves



80.073
Area protected by
sprinkler or high
pressure water



80.074
Area protected by
powder



80.075
Area protected
by CO₂



80.076
Area protected by
foam



80.077
Area protected
by gas



80.078
Remote release
station of
nitrogen



80.079
Remote release
station of CO₂



Signs according to the symbols for fire protection appliances according to IMO A.654 (16), IMO A.952 (23) and ISO 17631

size (mm)
150X150

FIRE PROTECTION IMO



80.090
Remote release station of powder



80.091
Remote release station of water



80.092
Remote release station of gas



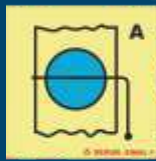
80.093
Closing device for vent, inlet or outlet of accommodation and service spaces



80.094
Closing device for vent, inlet or outlet of cargo spaces



80.095
Closing device for vent, inlet or outlet of machinery spaces



80.096
Fire dumper for accommodation spaces



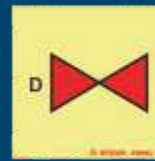
80.097
Fire dumper for cargo spaces



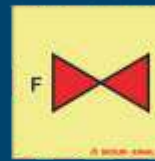
80.098
Fire dumper for machinery spaces



80.099
Fire dumper in vent duct



80.100
Section valves drenching



80.101
Foam valve



80.102
Sprinkler section valve



80.103
Powder section valve



80.104
Foam section valve



80.105
Sprinkler section valve



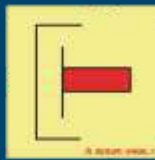
80.106
Fire main section valve



80.107
Fire main with fire valves



80.108
Fire hydrant



80.109
International shore connection



80.110
Space or group of spaces monitored heat detector(s)



80.111
Space or group of spaces monitored gas detector(s)



80.112
Space or group of spaces monitored flame detector(s)



80.113
Space or group of spaces monitored heat detector(s)



80.114
Space or group of spaces monitored smoke detector(s)



80.115
Main vertical zone symbol



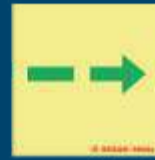
80.116
A class division



80.117
B class division



80.118
Primary means of escape



80.119
Secondary means of escape



80.129 Area sprinkler protected	80.130 Sprinkler installation	80.131 Drenching installation	80.132 Halon portable fire extinguisher	80.133 Halon 1301 battery	80.134 Halon 1301 bottles placed in protected areas
80.135 Halon release station	80.136 Locker for protective clothing	80.137 Locker for breathing apparatus	80.138 Air compressor for breathing devices	80.139 CO2 portable fire extinguisher 2 Kg	80.140 CO2 portable fire extinguisher
80.141 CO2 wheeled fire extinguisher	80.142 Fixed fire extinguisher CO2 battery	80.143 Fixed fire extinguisher CO2 installation	80.144 Fixed fire extinguisher CO2 bottled placed in protected area	80.145 Fixed fire extinguisher CO2 nitrogen battery	80.146 Fixed fire extinguisher CO2 nitrogen installation
80.147 Fixed fire extinguisher nitrogen bottle placed in a protected area	80.148 Foam portable fire extinguisher 9 lt	80.149 Foam wheeled fire extinguisher	80.150 Foam monitor gun	80.151 Fire hose and nozzle of foam	80.152 Fixed fire extinguisher foam battery
80.153 Fixed fire extinguisher foam installation	80.154 Fixed fire extinguisher foam bottle placed in a protected area	80.155 Portable foam applicator	80.156 Foam nozzle	80.157 Space protected by foam	80.158 High expansion foam supply trunk (outside)



Signs according to the symbols for fire protection appliances according to IMO A.654 (16), IMO A.952 (23) and ISO 17631

size (mm)
150X150

FIRE PROTECTION IMO



80.168
Powder monitor gun



80.169
Powder wheeled fire extinguisher



80.170
Powder portable fire extinguisher 12 Kg



80.171
Powder portable fire extinguisher 9 Kg



80.172
Powder portable fire extinguisher 6 Kg



80.173
Powder portable fire extinguisher 2 Kg



80.174
Powder portable fire extinguisher



80.175
Fixed fire extinguisher powder battery



80.176
Powder fire hose and nozzle



80.177
Fixed fire extinguisher powder bottle placed in a protected area



80.178
Fixed fire extinguisher powder installation



80.179
Fixed fire extinguisher gas bottle placed in a protected area



80.180
Fixed fire extinguisher gas installation



80.181
Fixed fire extinguisher gas battery



80.182
Gas wheeled fire extinguisher



80.183
Gas portable fire extinguisher



80.184
Water wheeled fire extinguisher



80.185
Water portable fire extinguisher



80.186
Fixed fire extinguisher water bottle placed in a protected area



80.187
Fixed fire extinguisher water installation



80.188
Fixed fire extinguisher water battery



80.189
Water fire hose and nozzle



80.190
Portable water applicator



80.191
Water monitor gun



80.192
Emergency switch board



80.193
Emergency source of electrical power (battery)



80.194
Fire pump



80.195
Emergency fire pump



80.196
Bilge pump



80.197
Emergency bilge pump

Fire fighting equipment

size (mm)
150X150
200X200
300X300



FIRE FIGHTING EQUIPMENT



80.207 80.208 80.209 80.210



80.211 80.212 80.213 80.214 80.215 80.216

size (mm)
100X200
150X300
200X400



80.226 80.227 80.228 80.229 80.230

size (mm)
150X200
200X300
300X400



80.240 80.241 80.242



80.243 80.244 80.245 80.246 80.247



Fire extinguisher (and blanket) identification signs are complementary to the main location signs. These signs fully conform to BS EN 3-5.

size (mm)
75X200

Under risk assessment, it is important to not only identify the location of fire extinguishers, but also display the types of fires that they are designed for. This will ensure that key personnel are given clear and unambiguous information when they need it most.

ABC POWDER

- A** Safe for: Wood paper and textiles
- B** Safe for: Flammable liquids
- C** Safe for: Gaseous fires
- Safe for: Live electrical equipment

Not for: Wood, paper and textiles

Not for: Flammable liquids

Not for: Gaseous fires

Not for: Live electrical equipment

80.257

BC POWDER

- B** Safe for: Flammable liquids
- C** Safe for: Gaseous fires
- Safe for: Live electrical equipment

Not for: Wood, paper and textiles

80.258

D POWDER

- D** Safe for: Alkali metal fires

Not for: Wood, paper and textiles

Not for: Flammable liquids

Not for: Gaseous fires

80.259

FOAM SPRAY

- A** Safe for: Wood paper and textiles
- B** Safe for: Flammable liquids

Not for: Wood, paper and textiles

Not for: Live electrical equipment

Not for: Flammable metal fires

80.260

CARBON DIOXIDE

- B** Safe for: Flammable liquids
- Safe for: Live electrical equipment

Not for: Wood, paper and textiles

Not for: Flammable metal fires

80.261

WET CHEMICAL

- A** Safe for: Wood paper and textiles
- F** Safe for: Cooking oils and deep-fat fires

Not for: Flammable liquids

Not for: Flammable gases

Not for: Live electrical equipment

80.262

WATER

- A** Safe for: Wood paper and textiles

Not for: Live electrical equipment

Not for: Flammable liquids

Not for: Flammable metal fires

80.263

Fire blanket

Use for smothering fires

Suitable for:
Chip pan fires.
Deep fat fires.
Waste bin fires.

Suitable For:
Wrapping around someone whose clothes are burning.

80.264

Fire extinguisher (and blanket) identification signs are complementary to the main location signs. These signs fully conform to BS EN 3-5.

size (mm)
150X100



Under risk assessment, it is important to not only identify the location of fire extinguishers, but also display the types of fires that they are designed for. This will ensure that key personnel are given clear and unambiguous information when they need it most.



80.274



80.275



80.276



80.277



80.278



80.279



80.280



80.281



Signs for lifts

size (mm)
150X200
200X300



80.291



80.292



80.293



80.294



80.295



80.296

size (mm)
150X150
200X200
300X300



80.305



Fire alarm

size (mm)
150X150
200X200
300X300



80.315



80.316



80.317



80.318



80.319



80.320



80.321



80.322

size (mm)
150X200
200X300
300X400



80.329



80.330



80.331

Numbers

size (mm)
75X150
100X200
150X300



80.341



80.342



80.343



80.344



80.345



80.346



80.347



80.348



80.349



80.350



80.351



80.352



80.353



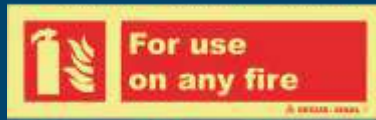
80.354



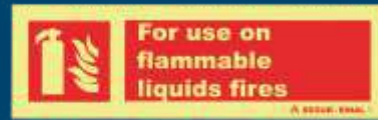
Signs with complementary text

size (mm)
300X100
450X150

FIRE FIGHTING EQUIPMENT



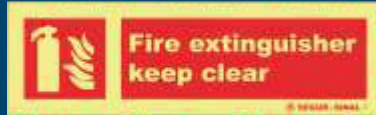
80.864



80.865



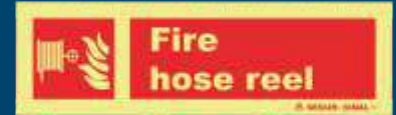
80.866



80.867



80.868



80.869



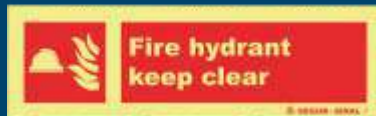
80.870



80.871



80.872



80.873



80.874



80.875



80.876



80.877



80.878



80.879



80.880



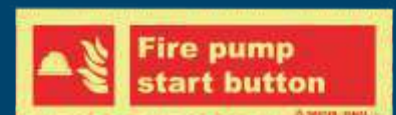
80.881



80.882



80.883



80.884



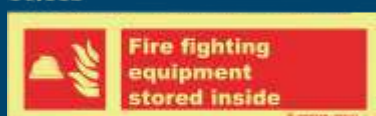
80.885



80.886



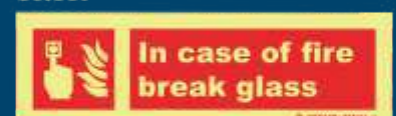
80.887



80.888



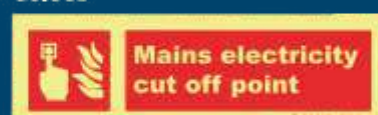
80.889



80.890



80.891



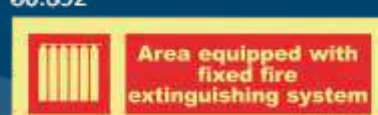
80.892



80.893



80.894



80.892



80.893

Arrows and directions

size (mm)
300X100
400X150



IMO Regulations recommend that the location of emergency equipment, assembly and embarkation stations should be plainly indicated by the use of appropriate symbols. MCS/CIRC.777 states that "Assembly Station" has the same meaning as "Muster Station".



80.905



80.906



80.907



80.908



80.909



80.910



80.911



80.912



80.913



80.914



80.915



80.916



80.917



80.918



80.919



80.920



80.921



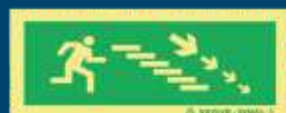
80.922



80.923



80.924



80.925



80.926



80.927



80.928



80.929

size (mm)
300X150



80.939



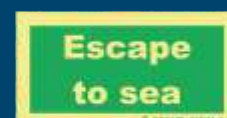
80.940



80.941



80.942



80.943

size (mm)
150X150
200X200
300X300
400X400

MCS/CIRC.777 states that "Assembly Station" has the same meaning as "Muster Station"



80.953



80.954



80.955



80.956



Symbols for escape routes and life saving appliances according to IMO A.760 (18) and ISO 17631.

size (mm)
150X150
300X300

IMO regulations recommend that the location of emergency equipment, assembly and embarkation stations should be plainly indicated by the use of appropriate symbols.

ESCAPE ROUTE AND LIFE SAVING IMMO



80.966



80.967



80.968



80.969



80.970



80.971



80.972



80.973



80.974



80.975



80.976



80.977



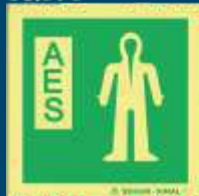
80.978



80.979



80.980



80.981



80.982



80.983



80.984



80.985



80.986



80.987



80.988



80.989



80.990



80.991



80.992



80.993



80.994



80.995



80.996



80.997



80.998



80.999



81.000



81.001



81.002



81.003



81.004



81.005

Signs with symbols and complementary text

size (mm)
150X150
300X300



81.006



81.007



81.008



81.009



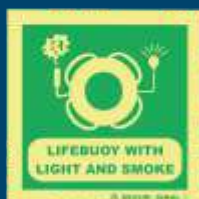
81.010



81.011



81.012



81.013



81.014



81.015



81.016



81.017



81.018



81.019



81.020



81.021



81.022



81.023



81.024



81.025



81.026



81.027



81.028



81.029



81.030



81.031



81.032



81.033



81.034



81.035



81.036



81.037



81.038



81.039

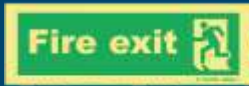


81.040



Escape route signs in according with ISO 7010 and BS 5499-1

size (mm)
300X100
400X150



81.045



81.046

size (mm)
300X100
450X150
600X200



81.047



81.048



81.049



81.050



81.051



81.052



81.053



81.054



81.055



81.056



81.057

size (mm)
200X100
300X150
400X200
600X300



81.067



81.068



81.069



81.070



81.071



81.072



81.073



81.074



81.076



81.077

size (mm)
150X150
200X200
300X300
400X400



81.088



81.089



81.090

size (mm)
300X150
400X200
600X300



81.095



81.096



81.097



81.098



Escape route signs in according with ISO 7010 and BS 5499-1

size (mm)
300X100
400X150
600X200



81.106



81.107



81.108



81.109



81.110



81.111



81.112



81.113



81.114



81.115



81.116

size (mm)
150X150
300X300
400X400



81.126



81.127



81.128



81.129



81.130



Escape route signs designed to European Council Directive 92/58/EEC

size (mm)
200X100
300X150
400X200
600X300



81.140



81.141



81.142



81.143



81.144



81.145



81.146



81.147



81.148



81.149



81.150



81.151



81.152



81.153



81.154



81.155



81.156



81.157

size (mm)
 150X150
 200X200
 300X300
 400X400

Safety equipment signs



It is essential that all first aid, emergency equipment, escape route and access mechanisms provided for use in an emergency are clearly identified and that the appropriate operating instructions are clearly marked and identifiable.



81.163



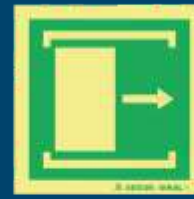
81.164



81.165



81.166



81.167



81.168



81.169



81.170



81.171



81.172



81.173



81.174



81.175



81.176



81.177



81.178



81.179



81.180



81.181



81.182



81.183



81.184



81.185



81.186



Escape door mechanism signs

size (mm)
200X70
300X100
400X150
600X200



81.196



81.197



81.198



81.199



81.200

size (mm)
100X240

size (mm)
100X100



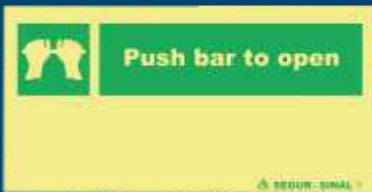
81.205 81.206



81.207

81.208

size (mm)
300X150
400X200
600X300



81.209

size (mm)
200X50
300X70
400X100
600X200



81.211

size (mm)
70X200
100X300



81.215



81.216



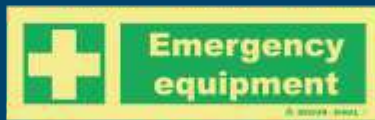
size (mm)
200X70
300X100
400X150
600X200

Safety equipment signs with text

IMO regulations recommend that the location of emergency equipment, should be plainly indicated by the use of appropriate symbols.



81.220



81.221



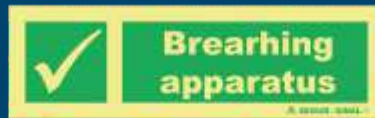
81.222



81.223



81.224



81.225



81.226



81.227



81.228



81.229

Breaking glasses signs

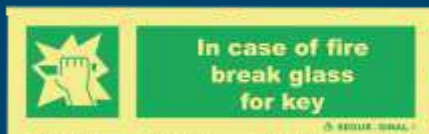
size (mm)
200X70
300X100
400X150



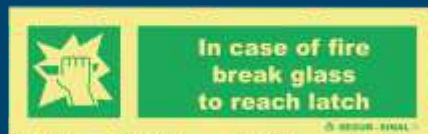
81.235



81.236



81.237



81.238

size (mm)
150X200
200X300
300X400



81.245



81.246



81.247



81.248



Escape route signs for people with reduced mobility

size (mm)
200X100
300X150
400X200
600X300



81.258



81.260



81.261



81.262



81.263



81.264



81.265



81.266



81.267



81.268



81.269



81.270



81.271



81.272

size (mm)
200X100
300X150
400X200
600X300



81.282



81.283



81.284



81.285



81.286



81.287



81.288



81.289

size (mm)
150X150
200X200
300X300



81.290



81.291



81.292

size (mm)
150X200
200X300
300X400

size (mm)
150X150
200X200
300X300



81.295



81.300



81.301

Letters and numbers

size (mm)
75X150
150X300
200X400



ESCAPE ROUTE AND LIFE SAVING IMO



81.310 81.311 81.312 81.313 81.314 81.315 81.316 81.317 81.318 81.319



81.320 81.321 81.322 81.323 81.324 81.325 81.326 81.327 81.328 81.329



81.330 81.331 81.332 81.333 81.334 81.335



81.336 81.337 81.338 81.339 81.340 81.341 81.342 81.343 81.344 81.345 81.346

The station letter or number should be placed on the right hand of the safety sign, and should be compatible in its dimensions.

A typical example is shown below:





Signs with symbols of emergency equipment life saving appliances according to SOLAS Convention, SOLAS Chapter III, Regulation 9.2.3. SOLAS Chapter III, Regulation 9.2.2.

size (mm)
150X150

SOLAS Chapter III, Regulation 9.2.3. requires symbols to be used "in accordance with the recommendations of the Organization" SOLAS, Chapter III, Regulation 9.2.2. requires to be "easily seen under emergency lighting conditions"



81.356



81.357



81.358



81.359



81.360



81.361



81.362



81.363



81.364



81.365

Signs with symbols and complementary text

size (mm)
150X150

"Symbols should be used inside survival craft adjacent to the relevant control or function to which they refer"



81.375



81.376



81.377



81.378



81.379



81.380



81.381



81.382



81.383



81.384



Example how to shown in the appropriate sequence signs of emergency equipment life saving appliances according to SOLAS Convention. SOLAS Regulation 9.2.3. SOLAS Chapter III, Regulation 9.2.2.

Signs, shown in the appropriate sequence, can be displayed at the Coxswain's position in totally enclosed lifeboat, as a reminder of the sequence of actions which should take place during the launching of a lifeboat.

A typical example is shown below:
In appropriate sequence with symbols and complementary text.



A typical example is shown below:
In appropriate sequence with symbols.





Alarm and fire fighting

size (mm)
150X150
200X200
300X300



81.400



81.401



81.402



81.403



81.404



81.405



81.406



81.407



81.408

size (mm)
100X200
150X300
200X400



81.420



81.421



81.422



81.423



81.424



81.425



81.426

size (mm)
150X200
200X300
300X400



81.436



81.437



81.438



81.439

Escape route

size (mm)
200X100
300X150
400X200



PANORAMIC



81.450



81.451



81.452

size (mm)
150X200
200X300
300X400



81.462



81.463

Prohibitions

size (mm)
150X150
200X200
300X300



81.473



81.474



LLL SYSTEM



LOW LOCATION LIGHTING SYSTEM

Loss of power and lighting in the event of an emergency can cause panic and confusion for the evacuation. The spreading of smoke is one of the most dangerous consequences of a fire, rendering evacuation, difficult and in some cases impossible, as visibility is reduced causing panic and intoxication; the latter often lead to death.

△Segursinal® LLL system, when used effectively to locate, identify and instruct on all aspects of fire safety management, can make a big difference in an emergency situation.

This system provide a conspicuous and unambiguous information and sufficient visual cues to evacuate an occupied area in an emergency along a specified escape route by using a comprehensive arrangement of visual components, signs and markings.

The △Segursinal® LLL systems are manufactured to an extremely high technical standard, with a new generation of photoluminescent products, especially designed to ensure the best optimum performance for photometric brightness and product integrity for means of escape location, emergency equipment identification during an evacuation period.

This new generation of photoluminescent products, are especially development to achieving intensive and exceptionally high brightness, even though they are situated in areas that receive very little ambient light.

Under IMO regulations Low Level Lighting systems have been compulsory since 1989 and they are also now recommended by the ISO to be used in conjunction with emergency escape lighting and many areas where emergency lighting is not needed.

As identified in SOLAS, 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 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.

The △Segursinal® LLL is a system that allows all evacuation routes to stay illuminated, communicating a clear and continuous means of escape message right through out to the final exit and a place of safety.

The location of fire fighting equipment is also clearly marked as part of the LLL system along the escape routes.

Fire equipment signs

size (mm)
57X57
83X83



LLL SIGNS

System for vertical application (walls)



81.490



81.491



81.492



81.493



81.494



81.495



81.496



81.497



81.498



81.499



81.500



81.501

size (mm)
107X57
158X83



81.515



Escape route signs with symbols designed to 95/58/EEC Directive

size (mm)
107X57
158X83

System for vertical application (walls)



81.525



81.526



81.527



81.528



81.533



81.534



81.529



81.530



81.531



81.532



81.535



81.536

size (mm)
57X57
83X83



81.556



81.557



81.558



81.559



81.560



81.561



81.562



81.563



81.564

Escape route signs with symbols designed to ISO 7010 and BS 5499-1

size (mm)
107X57
158X83



81.584



81.585



81.586



81.587



81.592



81.593



81.588



81.589



81.590



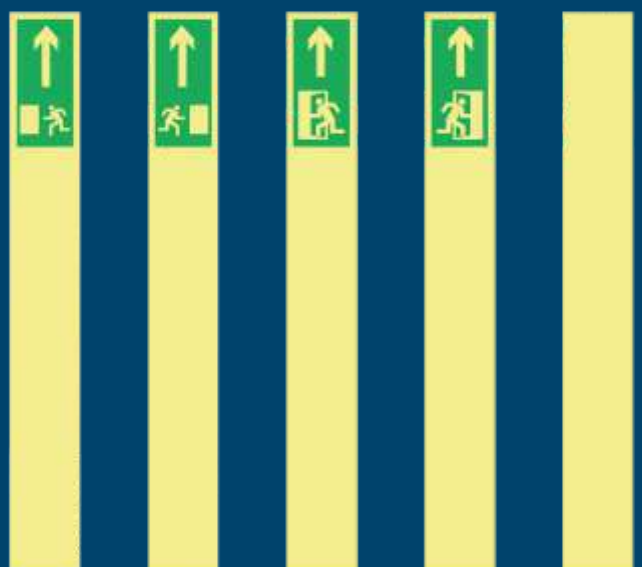
81.591

Strips for marking doors

size (mm)
800X57
800X83



LLL STRIPS



81.605

81.606

81.607

81.608

81.609



Marking strips for wall guidance lines

size (mm)
1200X57
1200X83



81.615



81.616





Non-slip self adhesive signs

size (mm)
107X57
158X83

System for floor and stair marking



81.620



81.621



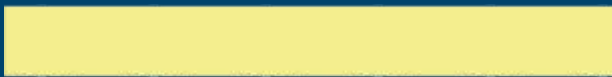
81.622



81.623

Non-slip self adhesive for wall guidance lines

size (mm)
1200X57
1200X83



81.630



81.631

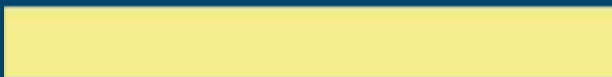


81.632



Non-slip self adhesive marking strips

size (mm)
1200X57
1200X83



81.640

Strips for wall mounting

size (mm)
1200X57
1200X83



81.641

To indicate prohibited areas or the location of fire fighting equipment, hazard marking.



81.642

To indicate the location of hazards e.g. obstacles or changes of level.



81.643

To indicate the escape identification, exit door highlighting, marking safe areas.



LEGISLATION AND NORMATIVE REFERENCES

European Directive 2002/25/EC - Safety rules and standards for passenger ships.

SOLAS Convention 2004 - Means of escape - Marking of escape routes.

IMO Resolution A.752 (18) - Guidelines for the evaluation, testing and application of low-location lighting on passenger ships

ISO 15370 - Low Location Lighting (LLL) on passenger ships

ISO 3864 - Graphical symbols - Safety colors and safety signs


ISO 6309 - Safety signs in workplaces and public

ISO 16069 - SWGS - Safety Way Guidance Systems

Guidance systems at floor level (Low Location Lighting System) began with legislation covering areas of greatest risk, firstly in aviation with FAA in 1984 and then in maritime with the IMO regulations in 1989.

ISO 16069 approved on November 2004, normalised Safety Way Guidance Systems (SWGS).


 **Segursinal**® LLL System of Sign-Strip for walls:

The system of sign strip can be mounted directly on the walls using the tape high adherence bi-adhesive; they can also be mounted into  **Segursinal**® frames which can be screwed or directly with high adherence bi-adhesive into place, simply remove the backing material and position accurately. According to IMO A.752 (18) this system shall be positioned in the following way:

Where the width is less than 2 meters, one guidance line may be sufficient and should be continuous as possible on the side where the fire fighting equipment is located.

If there is no fire fighting equipment the strips should be applied continuously on the side that leads to the next door handle. The strips should not be installed more than 30cm above deck.

Where a corridor has a width of 2 meters or more the guidance line shall be applied continuously to both sides of the corridor.

 **Segursinal**® LLL System of Sign –Strip for floors and stairs:

The system of sign strip can be placed directly on floors and stairs using the integral high adherence adhesive. Simply remove the backing material and position accurately.

According to IMO Resolution A.752 (18), chapter 9, a maintenance of LLL systems and components shall be visually inspected and cleaned at appropriate intervals, once a week, by a competent person and record kept.

Any deterioration, discoloration or missing component shall be recorded in the logbook for immediate replacement. All LLL systems should have their luminance tested at least once every five years. Readings should be taken on place.

Readings should be taken in at least ten locations equally spaced apart in space.

If more than 30% of readings do not meet the requirements of these guidelines, the LLL should be replaced. If between 20% and 30% of the readings do not meet the requirements of these guidelines, the LLL should be checked again in one year or may be replaced.



Technical characteristics of Segursinal® LLL photoluminescent signs

MATERIAL

Photoluminescent rigid plastic 2,00mm thickness (+-) 0,1mm

PRINTING

Serigraphy, high quality gloss paint with UV resistance and a 5 years guarantee

FIRE RESISTANCE

Flame retardant according to IEC 60092 - 101: 2002 and IMO FTPC Part 5 (IMO Res. A. 653 (16))

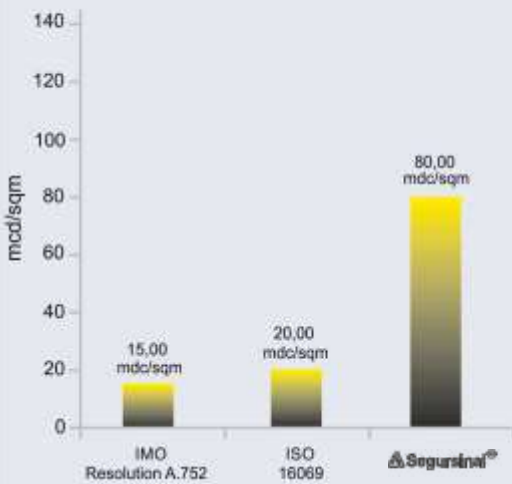
SURFACE

Antistatic and easy to clean

CHEMICAL CHARACTERISTICS

Non-radioactive, non-phosphorous, lead free and poisonless

Luminescent Intensity: 10 minutes



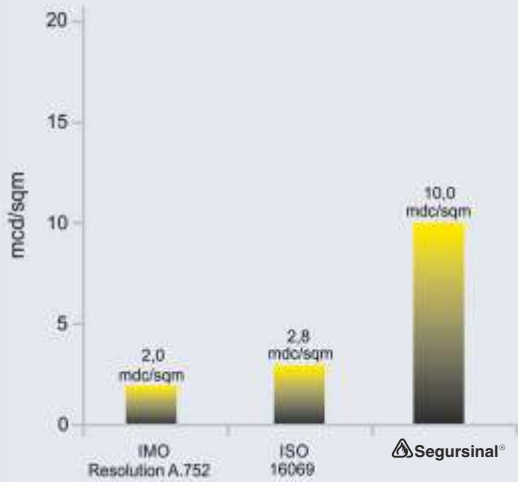
Indicates the measurement, in milicandelas, per square meter (mcd/sqm), of signs luminous intensity, 10 minutes after removing the light source

Time after removing the exciting light	Luminescent intensity (mcd/sqm)		
	According IMO	DIN 67510	Segursinal®
10 minutes	15,00	20,00	80,00




Technical characteristics of Segursinal® LLL photoluminescent

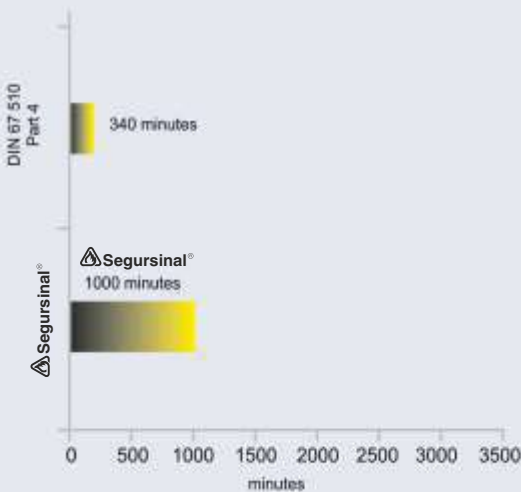
Luminescent Intensity: 60 minutes




Luminous intensity, 60 minutes after removing the light source

Time after removing the exciting light	Luminescent intensity (mcd/sqm)		
	According IMO	ISO 16069	 Segursinal®
60 minutes	2,0	2,8	10,0

Period of light decay (minutes)



This is the time, in minutes, during which luminescent intensity is higher than 0,32 mcd/sqm, a value approx. 100 times greater than the limit of visibility

Luminescent intensity greater than 0,32 mcd/sqm	Period of light decay (minutes)		
	According IMO	ISO 16069	 Segursinal®
60 minutes	--	340	1000

All the signalization  Segursinal® and  Segursinal® LLL are strictly produced in accordance to the following International Standards and Legislation:

IMO Resolution A.654(16) adopted on 19 October - Graphical symbols for fire control plans

IMO Resolution A.752(18) adopted on 4 November 1993 - Guidelines for the evacuation, testing and application of low-location lighting on passenger ships

IMO Resolution A.760(18) adopted on 4 November 1993 - Symbols related to life-saving appliances and arrangements

IMO Resolution A.952(23) adopted on 5 December 2003 - Graphical Symbols for shipboard fire control plans

SOLAS Convention 2004 chapter II-2 Regulation 13.3.2.5 - Construction - Fire protection, fire detection and fire extinction - Means of escape - Marking of escape routes

SOLAS Convention 2004 chapter II-2 Regulation 13.7.2.2 - Construction - Fire protection, fire detection and fire extinction - Means of escape - Instruction for safe escape

SOLAS Convention 2004 chapter III-Regulation 9.2.3 - Life-saving appliances and arrangements - Operating instructions

MARPOL 73/78 adopted on 17 February 1978 - International Convention for the Prevention of Pollution from Ships

ISPS Code 2003 adopted on 12 December 2002 - International Ship and Port Facility Code

ICAO and IMO document 9636 - International signs to provide guidance to persons at airports and marine terminals

IMDG Code 2010 Edition - International Maritime Dangerous Goods (IMDG) Code

ISM Code 2010 Edition - International Safety Management (ISM) Code

European Commission Directive 2002/25/EC adopted on 5 March 2002 - Amending Council Directive 98/18/EC on safety rules and standards for passenger ships

ISO 24409-1:2010 - Ships and marine technology - Design, location and use of shipboard safety signs, safety related signs, safety notices and safety markings - Part 1: Design principles

ISO 16069:2004 - Graphical symbols - Safety signs - Safety way guidance systems (SWGS)

ISO 7010:2011 - Graphical symbols - Safety colors and safety signs - Registered safety signs

ISO 3864-1:2011 - Graphical symbols - Safety colors and safety signs - Part 1: Design principles for safety signs and safety marking

ISO 3864-2:2004 - Graphical symbols - Safety colors and safety signs - Part 2: Design principles for product safety labels

ISO 17631:2002 - Ships and marine technology - Shipboard plans for fire protection, life-saving appliances and means of escape

ISO 15370:2010 - Ships and marine technology - Low location lighting (LLL) on passenger ships - Arrangement

ISO 14726:2008 - Ships and marine technology - Identification colors for the content of piping systems

ISO 20712-1:2008 - Water safety signs and beach safety flags - Part 1 Specifications for water safety signs used in workplaces and public areas

BS 5499-11:2002 - Graphical symbols and signs. Safety signs, including fire safety signs. Specification for geometric shapes, colours and layout

DIN 67510-1:2009 - Photoluminescent pigments and products - Part 1: Measurement and marking at the producer

DIN 67510-4:2008 - Phosphorescence pigments and products - Part 4: Products for phosphorescent escape route systems - Marking and applications

MCA LY2 published on September 2007 - The large Commercial Yacht Code (Ly2)



size (mm)
1200X35
1200X57
1200X83

Marking strips for signing of evacuation routes



81.645
To indicate for signing evacuation routes



81.646
To indicate mandatory instructions
e.g. "keep clear"



81.647
To indicate prohibited areas or location
of fire fighting equipment



81.648
To indicate prohibited areas or the location
of emergency equipment

Marking strips for signing dangerous areas

size (mm)
600X100



Recommend for areas where people circulate, especially for the signing of machines, pillars, corners, low-level fixed or protruding objects, dangerous areas, etc...

81.650
Red photoluminescent marking strip - left

81.651
Red photoluminescent marking strip - right

81.653
Red photoluminescent marking strip - left

81.654
Red photoluminescent marking strip - right



Tapes and marker dots

size (mm)
22500X100
22500X50

REFLECTIVE SELF ADHESIVE VINYL DIAGONAL

Recommend for areas where people circulate, especially for the signing of machines, pillars, corners, dangerous areas, car parking, etc...



81.660



81.661



size (mm)
10000X50

NON-SLIP SELF ADHESIVE BLACK DIAGONAL

Recommend for dangerous areas, especially for the signing of machines, stairs, etc...



81.662



NON-SLIP SELF ADHESIVE BLACK

Recommend for dangerous areas, especially for stairs, walkways on deck, galleys, escape routes on deck, etc...



81.663



NON-SLIP SELF ADHESIVE PHOTOLUMINESCENT

Recommend for areas where people circulate, especially for the signing of machines, pillars, stairs, corners, low-level fixed or protruding objects, dangerous areas, walkways on deck, galleys, escape route on deck, etc...



81.664



81.665



size (mm)
10000X50

PHOTOLUMINESCENT SELF ADHESIVE VINYL

Suitable for hazardous areas, evacuation routes, delineation of fire fighting equipment, handrail identification, stair identification.



81.666



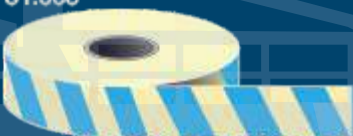
81.667



81.668



81.669



81.670



81.671



81.672



PROHIBITION SIGNS

size (mm)
150X150
200X200
300X300
400X400



81.680

size (mm)
150X200
200X300
300X400
400X600



81.685



81.686



81.687



81.688



81.689



81.690



81.691



81.692



81.693



81.694



81.695



81.696



81.697



81.698



PROHIBITION SIGNS

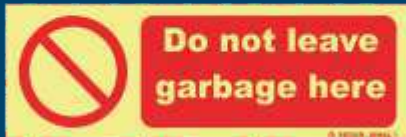
size (mm)
 200X70
 300X100
 400X150
 600X200



81.720



81.721



81.722



81.723



81.724



81.725



81.726



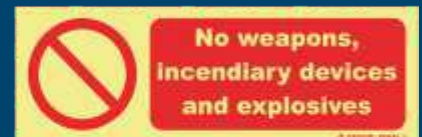
81.727



81.728



81.729



81.730



81.731



81.732



81.733



size (mm)
150X150
200X200
300X300
400X400



81.750



81.751



81.752



81.753



81.754

size (mm)
150X200
200X300
300X400
400X600



81.764



81.765



81.766



81.767



81.768



81.769



81.770



81.771



81.772



81.773



81.774



81.775



81.776



81.777



81.778



PROHIBITION SIGNS

size (mm)
200X70
300X100
400X150
600X200



81.888



81.889



81.890



81.891



81.892



81.893



81.894



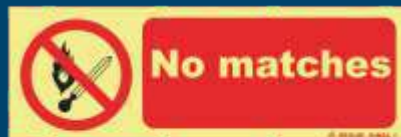
81.895



81.896



81.897



81.898



81.899



81.900



81.901



81.902



PROHIBITION SIGNS

size (mm)
150X150
200X200
300X300
400X400



81.912



81.913



81.914



81.915



81.916



81.917



81.918



81.919



81.920

size (mm)
150X200
200X300
300X400
400X600



81.931



81.932



81.933



81.934



81.935



81.936



81.937



81.938



81.939



81.940



81.941



81.942



81.943



81.944



81.945



PROHIBITION SIGNS

size (mm)
200X70
300X100
400X150
600X200



81.955



81.956



81.957



81.958



81.959



81.960



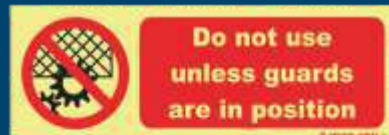
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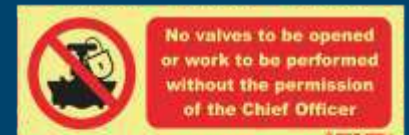
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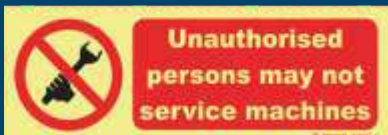
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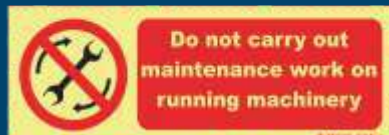
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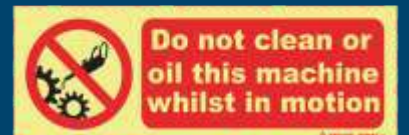
81.965



81.966



81.967



81.968



size (mm)
150X150
200X200
300X300
400X400



81.978



81.979



81.980



81.981



81.982

size (mm)
150X200
200X300
300X400
400X600



81.992



81.993



81.994



81.995



81.996



81.997



81.998



81.999



82.000



82.001



82.002



82.003



82.004

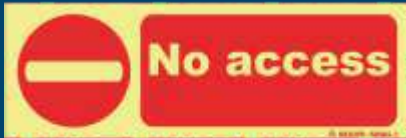


82.005



PROHIBITION SIGNS

size (mm)
200X70
300X100
400X150
600X200



82.015



82.016



82.017



82.018



82.019



82.020



82.021



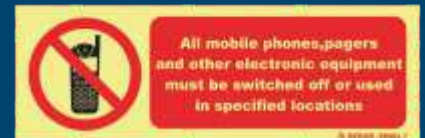
82.022



82.023



82.024



82.025



82.026



82.027



82.028



size (mm)
150X150
200X200
300X300
400X400

PROHIBITION SIGNS



82.039



82.040



82.041



82.042



82.043



82.044

size (mm)
150X200
200X300
300X400
400X600



82.054



82.056



82.057



82.058



82.059



82.060



82.061



82.062



82.063



82.064



82.065



82.066



82.067



82.068



PROHIBITION SIGNS

size (mm)
200X70
300X100
400X150
600X200



82.078



82.079



82.080



82.081



82.082



82.083



82.084



82.085



82.086



82.087



82.088



82.089



82.090



82.091



82.092



base (mm)

150
200
300
400



82.102

size (mm)

150X200
200X300
300X400
400X600



82.112



82.113



82.114



82.115



82.116



82.117



82.118



82.119



82.120



82.121



82.122



82.123



82.124



82.125



82.126



size (mm)
200X70
300X100
400X150
600X200



82.136



82.137



82.138



82.139



82.140



82.141



82.142



82.143



82.144



82.145



82.146



82.147



82.148



82.149



82.150



82.151



base (mm)

- 150
- 200
- 300
- 400



82.161

size (mm)

- 150X200
- 200X300
- 300X400
- 400X600



82.171



82.172



82.173



82.174



82.175



82.176



82.177



82.178



82.179



82.180



82.181



82.182



82.183



82.184



82.185



size (mm)
200X70
300X100
400X150
600X200



82.195



82.196



82.197



82.198



82.199



82.200



82.201



82.202



82.203



82.204



82.205



82.206



82.207



82.208



82.209



base (mm)
150
200
300
400



82.219



82.220



82.221



82.222



82.223

size (mm)
150X200
200X300
300X400
400X600



82.233



82.234



82.235



82.236



82.237



82.238



82.239



82.240



82.241



82.242



82.243



82.244



82.245



82.246



82.247



82.248



size (mm)
200X70
300X100
400X150
600X200



82.258



82.259



82.260



82.261



82.262



82.263



82.264



82.265



82.266



82.267



82.268



82.269



82.270



82.271



base (mm)
150
200
300
400



82.281



82.282



82.283



82.284



82.285



82.286



82.287

size (mm)
150X200
200X300
300X400
400X600



82.297



82.298



82.299



82.300



82.301



82.302



82.303



82.304



82.305



82.306



82.307



82.308



82.309



82.310



82.311



size (mm)
200X70
300X100
400X150
600X200



82.321



82.322



82.323



82.324



82.325



82.326



82.327



82.328



82.329



82.330



82.331



82.332



82.333



82.334



base (mm)
150
200
300
400



82.344



82.345



82.346



82.347



82.348



82.349



82.350



82.351

size (mm)
150X200
200X300
300X400
400X600



82.361



82.362



82.363



82.364



82.365



82.366



82.367



82.368



82.369



82.370



82.371



82.372



82.373



82.374



size (mm)
200X70
300X100
400X150
600X200



82.384



82.385



82.386



82.387



82.388



82.389



82.390



82.391



82.392



82.393



82.394



82.395



82.396



82.397



base (mm)
150
200
300
400



82.407



82.408



82.409



82.410



82.411



82.412



82.413

size (mm)
150X200
200X300
300X400
400X600



82.423



82.424



82.425



82.426



82.427



82.428



82.429



82.430



82.431



82.432



82.433



82.434



82.435



82.436



size (mm)
200X70
300X100
400X150
600X200



82.446



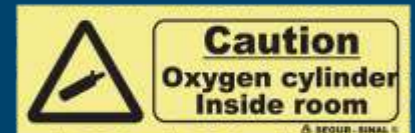
82.447



82.448



82.449



82.450



82.451



82.452



82.453



82.454



82.455



82.456



82.457



82.458



82.459



base (mm)

- 150
- 200
- 300
- 400



82.469



82.470

size (mm)

- 150X200
- 200X300
- 300X400
- 400X600



82.480



82.481



82.482



82.483



82.484



82.485



82.486

size (mm)

- 200X70
- 300X100
- 400X150
- 600X200



82.495



82.496



82.497



82.498



82.499



82.500



82.501



82.502



MANDATORY SIGNS

size (mm)
150X150
200X200
300X300
400X400



82.512

size (mm)
150X200
200X300
300X400
400X600



82.513



82.514



82.515



82.516



82.517



82.518



82.519

size (mm)
200X70
300X100
400X150
600X200



82.529



82.530



82.531



82.532



82.533



82.534



82.535



82.536



82.537



size (mm)
150X150
200X200
300X300
400X400



82.546



82.547



82.548



82.549



82.550

size (mm)
150X200
200X300
300X400
400X600



82.560



82.561



82.562



82.563



82.564



82.565



82.566



82.567



82.568



82.569



82.570



82.571

size (mm)
200X70
300X100
400X150
600X200



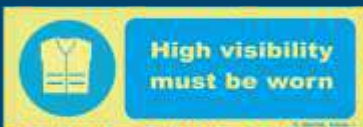
82.581



82.582



82.583



82.584



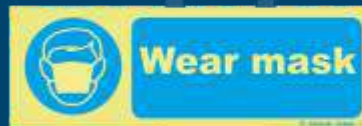
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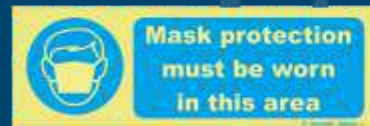
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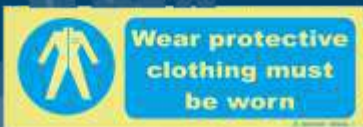
82.587



82.588



82.589



82.590



82.591



82.592



MANDATORY SIGNS

size (mm)
150X150
200X200
300X300
400X400



82.612



82.613



82.614



82.615

size (mm)
150X200
200X300
300X400
400X600



82.625



82.626



82.627



82.628



82.629



82.630



82.631



82.632



82.633



82.634



82.635



82.636

size (mm)
200X70
300X100
400X150
600X200



82.646



82.647



82.648



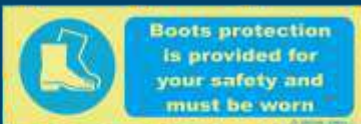
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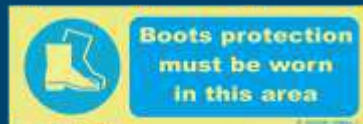
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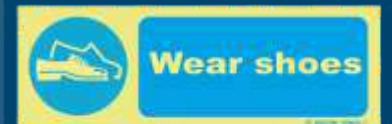
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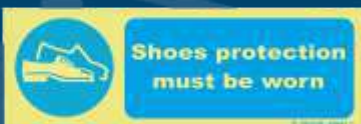
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82.653



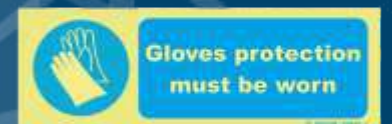
82.654



82.655



82.656



82.657



size (mm)
150X150
200X200
300X300
400X400



82.667



82.668



82.669



82.670



82.671

size (mm)
150X200
200X300
300X400
400X600



82.681



82.682



82.683



82.684



82.685



82.686



82.687



82.688



82.689



82.690



82.691



82.692

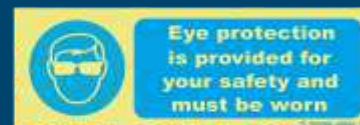
size (mm)
200X70
300X100
400X150
600X200



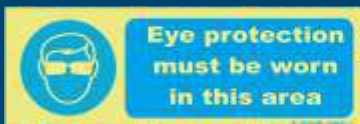
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82.713



82.714



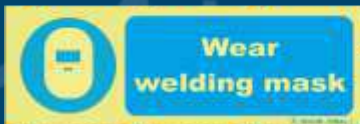
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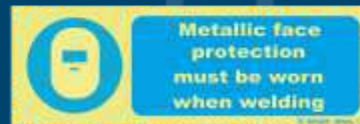
82.716



82.717



82.718



82.719



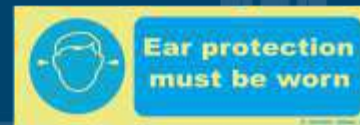
82.720



82.721



82.722



82.723



MANDATORY SIGNS

size (mm)
150X150
200X200
300X300
400X400



82.733



82.734



82.735



82.736



82.737



82.738



82.739



82.740



82.741



82.742



82.743

size (mm)
150X200
200X300
300X400
400X600



82.753



82.754



82.755



82.756



82.757



82.758



82.759



82.760



82.761



82.762



82.763



82.764

size (mm)
200X70
300X100
400X150
600X200



MANDATORY SIGNS



82.774



82.775



82.776



82.777



82.778



82.779



82.780



82.781



82.782



82.783



82.784



82.785



Fire doors

size (mm)
80X80
150X150
200X200

SOLAS Chapter II-1, Regulations 24.3.2 states "...doors and mechanisms shall be suitably marked to ensure that they may be properly used to provide maximum safety."

FIRE DOORS AND MANDATORY SIGNS



82.795



82.796



82.797



82.798



82.799



82.800



82.801



82.802



82.803



82.804



82.805



82.806



82.807



82.808



82.809



82.810



82.811



82.812



82.813



82.814



82.815



82.816



82.817



82.818



82.819



82.820



82.821



82.822



82.823



82.824

Fire doors

size (mm)
200X70
300X100
400X150
600X200



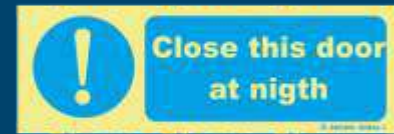
SOLAS Chapter II-1, Regulations 24.3.2 states "...doors and mechanisms shall be suitably marked to ensure that they may be properly used to provide maximum safety."



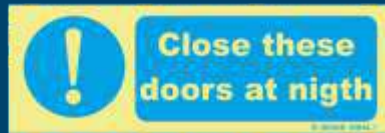
82.844



82.845



82.846



82.847



82.848



82.849



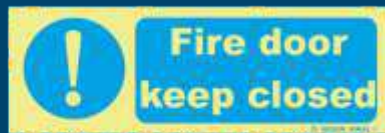
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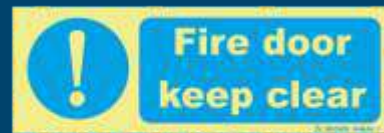
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82.852



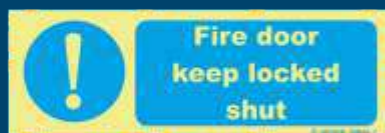
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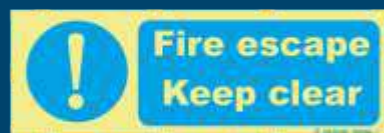
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82.855



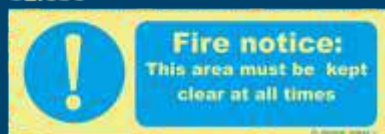
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82.857



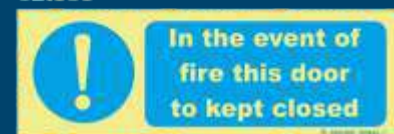
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82.859



82.860



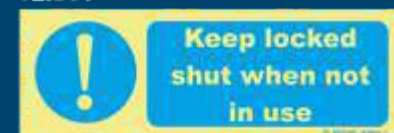
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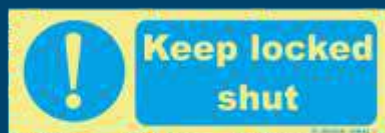
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82.863



82.864



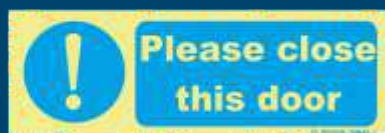
82.865



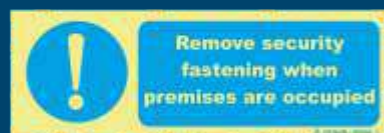
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82.867



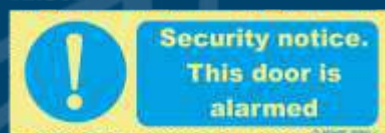
82.868



82.869



82.870



82.871



Fire doors

size (mm)
80X80
150X150
200X200

SOLAS Chapter II-1, Regulations 24.3.2 states "...doors and mechanisms shall be suitably marked to ensure that they may be properly used to provide maximum safety."



82.891



82.892



82.893



82.894



82.895



82.896



82.897



82.898



82.899



82.900



82.901



82.902



82.903



82.904



82.905

Fire doors

size (mm)
200X70
300X100
400X150
600X200



SOLAS Chapter II-1, Regulations 24.3.2 states "...doors and mechanisms shall be suitably marked to ensure that they may be properly used to provide maximum safety."



82.925



82.926



82.927



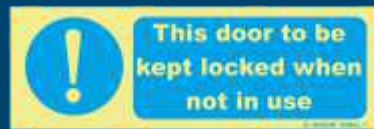
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82.929



82.930



82.931



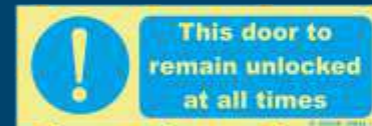
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82.933



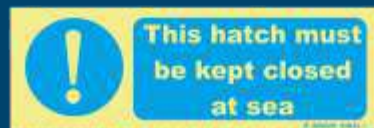
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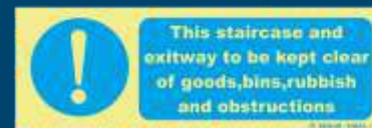
82.935



82.936



82.937



82.938



82.939



Temporary tie tags

size (mm)
60X80
80X100

TEMPORARY TIE TAGS

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. The tags are supplied in packs of ten.



82.959



82.960



82.961



82.962



82.963



82.964



82.965



82.966



82.967



82.968



82.969



82.970

size (mm)
60X80
80X100



TEMPORARY TIE TAGS



82.971



82.972



82.973



82.974



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82.985

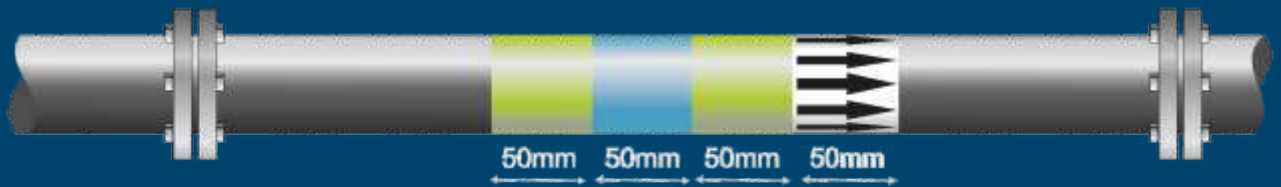


82.986



Pipe identification according ISO 14726

PIPE IDENTIFICATION



Use tapes in this sequence:

Waste Media			Ref. Nos.	Flammable			Ref. Nos.
Black water	Black	Blue	83.000-83.001-83.000	Hydrogen	Yellow	Blue	83.011-83.001-83.011
Waste oil/Used oil	Black	Brown	83.000-83.002-83.000	Acetylene	Yellow	Grey	83.011-83.004-83.011
Bilge water	Black	Green	83.000-83.003-83.000	Liquid gas	Yellow	Pink	83.011-83.009-83.011
Exhaust gas	Black	Grey	83.000-83.004-83.000	Steam			Ref. Nos.
Grey water	Black	White	83.000-83.010-83.000	Steam for heating	Grey	Black	83.007-83.000-83.007
Sewage - contaminated	Black	Yellow	83.000-83.011-83.000	Exhaust steam	Grey	White	83.007-83.010-83.007
				Supply steam	Grey	Yellow	83.007-83.011-83.007
Fuel			Ref. Nos.	Air in			Ref. Nos.
HFO (Heavy fuel oil)	Brown	Black	83.002-83.000-83.002	Discharge air	Black	White	83.010-83.000-83.010
Aviation fuel	Brown	Blue	83.002-83.001-83.002	Mechanical supply air-cold	Blue	White	83.010-83.001-83.010
Biological fuel	Brown	Pink	83.002-83.009-83.002	Natural exhaust air	Brown	White	83.010-83.002-83.010
Gas turbine fuel	Brown	White	83.002-83.010-83.002	Atmospheric air	Green	White	83.010-83.003-83.010
MDO (Marine diesel fuel)	Brown	Yellow	83.002-83.011-83.002	Mechanical exhaust air	Grey	White	83.010-83.004-83.010
Fresh Water			Ref. Nos.	Decontaminated supply air	Brown	White	83.010-83.005-83.010
Fresh water, sanitary	Blue	Brown	83.001-83.002-83.001	Mechanical recirculated air	Orange	White	83.010-83.006-83.010
Potable water	Blue	Green	83.001-83.003-83.001	Mechanical supply air-	Grey	White	83.010-83.007-83.010
Distillate	Blue	Grey	83.001-83.004-83.001	Smoke clearance	Red	White	83.010-83.008-83.010
Gas turbine wash water	Blue	Orange	83.001-83.006-83.001	Conditioned supply air	Pink	White	83.010-83.009-83.010
Feed water	Blue	White	83.001-83.007-83.001	Natural supply air	Yellow	White	83.010-83.011-83.010
Cooling fresh water	Blue	Pink	83.001-83.009-83.001	Oil other than			Ref. Nos.
Chilled water	Blue	White	83.001-83.010-83.001	Thermal fluid	Orange	Blue	83.006-83.001-83.006
Condensate	Blue	Yellow	83.001-83.011-83.001	Lubrication oil for gas	Orange	Green	83.006-83.003-83.006
Sea Water			Ref. Nos.	Hydraulic fluid	Orange	Grey	83.006-83.004-83.006
Hydrogen	Green	Blue	83.003-83.001-83.003	Lubrication oil for steam	Orange	White	83.006-83.007-83.006
Acetylene	Green	Brown	83.003-83.002-83.003	Lubrication oil for gears	Orange	Pink	83.006-83.009-83.006
Liquid gas	Green	Pink	83.003-83.009-83.003	Lub. oil for int. combustion engines	Orange	Yellow	83.006-83.011-83.006
Cooling sea water	Green	Yellow	83.003-83.011-83.003	Fire fighting			Ref. Nos.
Non-flammable			Ref. Nos.	Fire-fighting water	Red	Green	83.008-83.003-83.008
Oxygen	Grey	Blue	83.004-83.001-83.004	Fire-fighting gas	Red	Grey	83.008-83.004-83.008
Inert gas	Grey	Brown	83.004-83.002-83.004	Sprinkler water	Red	Orange	83.008-83.006-83.008
Nitrogen	Grey	Green	83.004-83.003-83.004	Spray water	Red	Pink	83.008-83.009-83.008
Refrigerant	Grey	Brown	83.004-83.005-83.004	Fire-fighting powder	Red	White	83.008-83.010-83.008
Compressed air-low	Grey	Orange	83.004-83.006-83.004	Fire-fighting foam	Red	Yellow	83.008-83.011-83.008
Compressed air-high	Grey	Red	83.004-83.008-83.004	Flow arrows	↑↑↑↑	↑↑↑↑	83.012
Control air/Regulation air	Grey	Pink	83.004-83.009-83.004				
Breathing air*	Grey	White	83.004-83.010-83.004				
Breathing gas*	Grey	Yellow	83.004-83.011-83.004				

* 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 colors to be used in conjunction with the main colors given in ISO 14726-1.

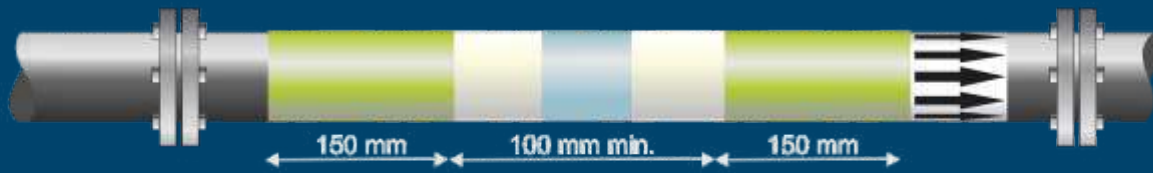
All pipe tapes on this page are offered as self adhesive rolls 50mm wide by 50 meters long.

For guidance on installation see example on top.

	Ref.nos		Ref.nos
Black	83.000	Orange	83.006
Blue	83.001	Silver	83.007
Brown	83.002	Red	83.008
Green	83.003	Violet	83.009
Grey	83.004	White	83.010
Marron	83.005	Yellow-ochre	83.011
		Flow arrows	↑↑↑↑ 83.012



Pipe identification according to BS 1710 and BS 4800



Use tapes in this sequence:

Water		Ref. Nos.
Sea, river or untreated	[Green]	83.003-83.003-83.003
Fire mains	[Green] [Red]	83.003-83.008-83.008-83.003
Drinking	[Green] [Blue]	83.003-83.019-83.019-83.003
Cooling (primary)	[Green] [White]	83.003-83.010-83.010-83.003
Hydraulic power	[Green] [Orange]	83.003-83.022-83.022-83.003
Boiler feed	[Green] [White] [Crimson]	83.003-83.020-83.010-83.020-83.003
Condensate	[Green] [White] [Green]	83.003-83.020-83.003-83.020-83.003
Chilled	[Green] [White] [Green]	83.003-83.010-83.003-83.010-83.003
Heating over 100°C	[Green] [Blue] [Crimson]	83.003-83.013-83.020-83.013-83.003
Heating under 100°C	[Green] [Crimson] [Blue]	83.003-83.020-83.013-83.020-83.003
Hot	[Green] [Crimson]	83.003-83.010-83.013-83.010-83.003
Cold	[Green] [Crimson]	83.003-83.010-83.020-83.010-83.003
Oils		Ref. Nos.
Fumace	[Brown]	83.002-83.002-83.002
Diesel	[Brown] [White]	83.002-83.010-83.010-83.002
Lubricating	[Brown] [Green]	83.002-83.003-83.003-83.002
Hydraulic power	[Brown] [Orange]	83.002-83.022-83.022-83.002
Transformer	[Brown] [Crimson]	83.002-83.020-83.020-83.002
Gases		Ref. Nos.
Compressed air	[Light blue]	83.013-83.013-83.013
Vacuum	[Light blue] [White]	83.013-83.010-83.010-83.013
Steam	[Grey]	83.014-83.014-83.014
Refrigerant 12	[Yellow] [Light blue]	83.006-83.013-83.013-83.006
Refrigerant 22	[Yellow] [Blue]	83.006-83.016-83.016-83.006
Refrigerant 502	[Yellow] [Brown]	83.006-83.002-83.002-83.006
Anhydrous ammonia	[Yellow] [Pink]	83.006-83.018-83.018-83.006
Other refrigerants	[Yellow] [Green]	83.006-83.021-83.021-83.006
Natural gas	[Yellow] [Yellow]	83.006-83.011-83.011-83.006
Others		Ref. Nos.
Drainage	[Black]	83.000-83.000-83.000
Electric conduits and ventilation	[Orange]	83.006-83.006-83.006
Acids and alkalis	[Pink]	83.009-83.009-83.009
Flow direction arrows	↑↑↑↑↑	83.012

Regulations:

Good working practice should dictate the use of a pipe identification system to promote a safe environment. The system detailed here conform to BS 1710, and the colors 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 25mm on the blind side of the pipe.

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

For guidance on installation see example on top.

Black	83.000	Sea green	83.016
Lighth blue	83.013	Golden brown	83.017
Brown	83.002	Dark mauve	83.018
Green	83.003	Yellow	83.011
Silver/Grey	83.014	Red	83.008
Orange	83.006	Auxiliar blue	83.019
Yellow-ochre	83.015	Crimson	83.020
Violet	83.009	Green esmerald	83.021
		Salmon pink	83.022
		White	83.010
		Blue	83.001
		Flow arrows	↑↑↑↑↑ 83.012



Hazard warning diamonds with class numbers

size (mm)
100X100
200X200
250X250
300X300
400X400

The IMDG Code became mandatory in January 2004 through the adoption of the amendments to SOLAS chapter VII (Carriage of Dangerous Goods). The International Maritime Dangerous Goods (IMDG) Code has been developed to create a uniform international code for the transport of dangerous goods by sea.

 1 class 1 83.030	 1.1 1 class 1 83.031	 1.2 1 class 1 83.032	 1.3 1 class 1 83.033
 1.4 F 1 class 1 83.034	 1.4 B 1 class 1 83.035	 1.4 C 1 class 1 83.036	 1.4 D 1 class 1 83.037
 1.4 E 1 class 1 83.038	 1.4 G 1 class 1 83.039	 1.4 S 1 class 1 83.040	 1.4S 1 class 1 83.041
 1.5 D 1 class 1 83.042	 1.6 N 1 class 1 83.043	 1.6 N 1 class 1 83.044	 TOXIC GAS 2 class 2 83.045
 FLAMMABLE GAS 2 class 2 83.046	 FLAMMABLE GAS 2 class 2 83.047	 NON-FLAMMABLE COMPRESSED GAS 2 class 2 83.048	 NON-FLAMMABLE COMPRESSED GAS 2 class 2 83.049
 FLAMMABLE LIQUID 3 class 3 83.050	 FLAMMABLE LIQUID 3 class 3 83.051	 FLAMMABLE SOLID 4 class 4 83.052	 SPONTANEOUSLY COMBUSTIBLE 4.2 class 4 83.053

Hazard warning diamonds with class numbers

size (mm)
 100X100
 200X200
 250X250
 300X300
 400X400

The IMDG Code became mandatory in January 2004 through the adoption of the amendments to SOLAS chapter VII (Carriage of Dangerous Goods).

The International Maritime Dangerous Goods (IMDG) Code has been developed to create a uniform international code for the transport of dangerous goods by sea.



class 4
 83.054



class 4
 83.055



class 5.1
 83.056



class 5.2
 83.057



class 6
 83.058



class 6
 83.059



class 7
 83.060



class 7
 category I
 83.061



class 7
 category II
 83.062



class 7
 category III
 83.063



class 7
 83.064



class 8
 83.065



class 9
 83.066



83.067



83.068



83.069



83.070





Hazard warning diamonds with panel for UN numbers

size (mm)
100X100
250X250
200X200
300X300
400X400

The IMDG Code became mandatory in January 2004 through the adoption of the amendments to SOLAS chapter VII (Carriage of Dangerous Goods). The International Maritime Dangerous Goods (IMDG) Code has been developed to create a uniform international code for the transport of dangerous goods by sea.



class 2
83.071



class 2
83.072



class 2
83.073



class 2
83.074



class 2
83.075



class 3
83.076



class 3
83.077



class 4
83.078



class 4
83.079



class 4
83.080



class 4
83.081



class 5.1
83.082



class 5.2
83.083



class 6.1
83.084



class 6.2
83.085



class 7
83.086



class 8
83.087




class 9
83.088

Warning notices

size (mm)
150X200
200X300
300X400



DRUG & ALCOHOL
WARNING
INFORMATION




The use or possession of alcohol, drugs or other illegal articles is absolutely forbidden on board of this ship. The shipowner will fully assist and help the police, local authorities or the coastguard in the prosecution of all persons which are using, possessing or under the influences of any illegal drug on board of this ship.

YOU HAVE BEEN WARNED!

△ SEGUR-SINAL

83.100

DRUG
WARNING
INFORMATION



The ship owners are fully cooperating with all public authorities in the criminal prosecution of anyone possessing or using illegal drugs or drug paraphernalia aboard this vessel.

YOU HAVE BEEN WARNED!

△ SEGUR-SINAL

83.101

WARNING

DRUG USE AND DRUG TRAFFICKING ARE ILLEGAL AND WILL BE SEVERELY PUNISHED.



- Don't use drugs.
- Don't traffic drugs. Say NO to drug abuse and smuggling it will bring disaster to you and your family.
- If you are guilty of drug abuse or drug smuggling, your contract of employment will immediately be terminated.
- If you are charged by authorities with smuggling, you will be responsible for your own legal costs.
- If you are found guilty of smuggling and are sentenced to a prison term, the company will not have any further responsibility toward you.

YOU HAVE BEEN WARNED!

△ SEGUR-SINAL

83.102

Warning notices

size (mm)
200X150
300X200
400X300

DISCHARGE OF OIL PROHIBITED

The Federal Water Pollution Control Act prohibits the discharge of oil or oily waste into or upon the navigable waters of the United States, or the waters of the contiguous zone, or which may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States. If such discharge causes a film or discoloration of the surface of the water or causes sludge or emulsion beneath the surface of the water. Violators are subject to substantial civil penalties and/or criminal sanctions including fines and imprisonment.

The person in charge of a vessel or facility must immediately report any discharge of oil or hazardous substance to the National Response Centre toll

△ SEGUR-SINAL

83.106

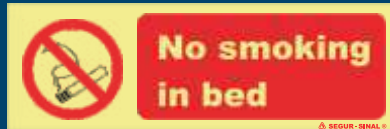


Prohibition notices

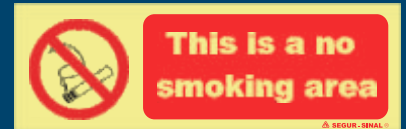
size (mm)
200X70
300X100
400X150
600X200



83.115



83.116



83.117



83.118



83.119



83.120



81.121



81.122



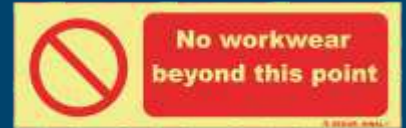
81.123



81.124



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81.132

Mandatory notices

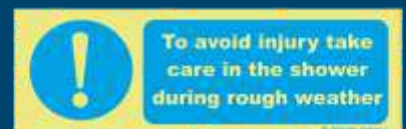
size (mm)
200X70
300X100
400X150
600X200



81.140



81.141



81.142



81.143




Man overboard

1. Throw lifebuoy.
2. Keep man in sight.
3. Inform the bridge or the officer of the watch.
4. State man overboard and give location.

SEGUR-SINAL

83.153



EMERGENCY EVACUATION INSTRUCTIONS

Know the NUMBER and LOCATION of your allotted assembly station.

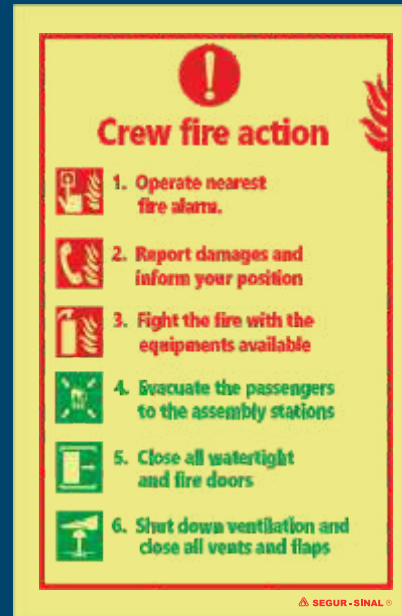
When you hear seven short and one long blast on the ship's alarm system you must:

1. Collect your lifejacket and warm clothing or blankets.
2. Go immediately to your allotted assembly station and wait there quietly.
3. Help others to remain calm.
4. Take further instructions from the ship's staff at the assembly station.
5. Report any problems.

**DO NOT use elevators
DO NOT collect any luggage**

SEGUR-SINAL

83.154



Crew fire action

1. Operate nearest fire alarm.
2. Report damages and inform your position
3. Fight the fire with the equipments available
4. Evacuate the passengers to the assembly stations
5. Close all watertight and fire doors
6. Shut down ventilation and close all vents and flaps

SEGUR-SINAL

83.155



Safety instructions for passengers

- 1 - General alarm
The general alarm comprises seven short blasts followed by one prolonged blast.
- 2 - Action on hearing general emergency signal
On hearing the signal you must proceed calmly to the nearest Assembly Station if you can see your table where the signal is heard, put your clothes and lifejacket on and take the handrails to your Assembly Station.
- 3 - Assembly station
Assembly stations are marked by the sign shown below.
If the Assembly sign is flashing, it means that the Assembly Station sign is flashing.

4 - Procedures on arrival in assembly station
On arrival at an Assembly Station you will be given instructions by the crew members and all the crew members will be given instructions. Lifejackets for passengers should be put on before the muster.

5 - Subsequent procedures
Remain calm and follow the instructions of the crew members in your Assembly Station.

SEGUR-SINAL

83.156



**In case of fire
En cas d'incendie
Bei Feueralarm**

1. If you discover a fire, sound the fire alarm immediately by breaking the glass of the fire alarm call point.
2. If you discover an incendie alarm, alarm, immediately report to the crew the location of the alarm and the nature of the fire.
3. When an alarm sounds, you must collect the lifejacket and take it to the nearest Assembly Station.
4. A continuous sounding of the alarm will indicate that an emergency has arisen and you should leave the room immediately using the nearest available staircase or fire exit route.
5. Alarm indicates you're in danger of fire, you must leave your room, do not use the lift, do not use the stairs, do not use the elevator.
6. Do not use the lift, do not use the stairs, do not use the elevator.
7. Do not use the lift, do not use the stairs, do not use the elevator.
8. Do not use the lift, do not use the stairs, do not use the elevator.
9. Do not use the lift, do not use the stairs, do not use the elevator.
10. Do not use the lift, do not use the stairs, do not use the elevator.

DO NOT stop to collect personal belongings

SEGUR-SINAL

83.157



Passenger fire action

1. Operate nearest fire alarm
2. Report damages and inform your position
3. Fight the fire, if safe and trained to do so
4. Go to your Assembly station
5. Following the evacuation signs
6. Lifejackets are stowed at your Assembly station

DO NOT stop to collect personal belongings

SEGUR-SINAL

83.158



Information signs

size (mm)
150X150
200X200
300X300

Safety signs according to the ICAO and IMO Document 9636

The ICAO and IMO joint publication Document 9636 specifies the signs information to persons at airports and marine terminals. The "First Aid", "No Smoking", "No Entry/No trespassing" and "Carry no weapons on board" signs should be designed according to the colours specified in Section II of this publication whilst the colors. General information signs can be decided by national or local authorities keeping in mind that readability is of the foremost importance.



83.165



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83.196



83.197

Information signs

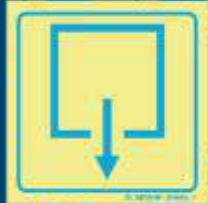
size (mm)
150X150
200X200
300X300



Safety signs according to the ICAO and IMO Document 9636

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General information signs can be decided by national or local authorities keeping in mind that readability is of the foremost importance.



83.198



83.199



83.200



83.201



83.202



83.203



83.204



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83.207



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83.214



83.215



83.216



83.217

Toilet signs

size (mm)
150X150
200X200
300X300



83.236



83.237



83.238



83.239



83.240



83.241



Toilet signs

size (mm)
200X100
300X150
400X200



83.242



83.243



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83.247



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83.254



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83.256



83.257

Numbers

size (mm)
75X150
100X200
150X300



83.265



83.266



83.267



83.268



83.269



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83.276



83.277



83.278



SAFETY PLAN

EN CAS D'URGENCE VOUS DEVEZ SUIVRE LES INSTRUCTIONS DU PLAN DE SÉCURITÉ

- Vous êtes ici
- Voir des vêtements chauds
- Evacuez le local calmement
- Suivez les indications du personnel d'évacuation
- Utilisez les sorties de secours
- Routes de sauvetage sans words
- Téléphones de secours
- Cascs de sauvetage
- Gilet de sauvetage
- Zone de rassemblement
- Sortie final
- Sortie de secours

IN CASE OF EMERGENCY YOU MUST FOLLOW THE INSTRUCTIONS OF THE SAFETY PLAN

- You are here
- Put warm clothing
- Evacuate calmly
- Please follow the instructions of the security staff
- Use the emergency exits
- Lifebuoy
- Lifebuoy with line
- Emergency phone
- Lifeboat
- Lifejacket
- Meeting point
- Principal escape route
- Alternative escape route

Deck 3

SEGUR · SINAL

PE-DECK



SAFETY PLAN

Deck 3

FR EN CAS D'URGENCE VOUS DEVEZ SUIVRE
F LES INSTRUCTIONS DU PLAN DE SÉCURITÉ

- Vous êtes ici
- Voir des vêtements chauds
- Evacuez le local calmement
- Suivez les indications du personnel d'évacuation
- Utilisez les sorties de secours
- Bouée de sauvetage
- Bouée de sauvetage avec corde
- Téléphone de secours
- Canot de sauvetage
- Gilet de sauvetage
- Zone de rassemblement
- Sortie final
- Sortie de secours

GB IN CASE OF EMERGENCY YOU MUST FOLLOW
GB THE INSTRUCTIONS OF THE SAFETY PLAN

- You are here
- Put warm clothing
- Evacuate calmly
- Please follow the instructions of the security staff
- Use the emergency exits
- Lifebuoy
- Lifebuoy with line
- Emergency phone
- Lifeboat
- Lifejacket
- Meeting point
- Principal escape route
- Alternative escape route

PE-CABIN



Legislation

Is essential to inform all passengers of the safety instructions. All information about safety equipment's, fire fighting equipment's and escape route information are demanding by legislation.

SOLAS Convention 2004 chapter II-2 Regulation 13.7.2.2 requires that a simple diagram plan showing the "you are here" position as well as the escape routes (marked by arrows) must be displayed on the inside of each cabin door and public spaces.

The plan should illustrate the directions of escape and be properly oriented in relation to its position on the ship.



- In addition IMO Resolution A.752 4.6 urges that there should be a sign on the inside of all passenger cabin doors, explaining the Low Location Lighting LLL system and this location, and the way to the nearest available exit to each cabin.





 **Segursinal**[®]

Maritime photoluminescent safety signs

In accordance with legislation, standards and consumer protection to ensure quality and conformity, our Trademarks are printed on all [®] and  Segursinal LLL[®] signs