THE SEA SHALL NOT HAVE THEM
FLOATATION GARMENTS & LIFE JACKETS
Mullion Marine Safety and Personal Floatation Devices (PFD’s) are designed to protect lives in some of the harshest and unforgiving, environments known to man. Our focus is to design and produce the best possible safety solutions to meet different end users combining comfort and durability with technical safety and protection in PFD’s.

Sadly, lives have consistently been lost to the cruel and unforgiving seas, with far too many modern day tragedies, often due to the wearer’s lack of protective clothing or lifejackets.

Our Lifejackets, Floatation and immersion suits are the preferred choice of workers in Offshore Energy Oil and Gas Exploration, Wind Farm Operations, International Shipping and Coastal Communities worldwide.

FAIR WINDS AND FOLLOWING SEAS TO ALL WHO SAIL IN MULLION!
The Aquafloat Superior one piece suit has similar features to the Superior jacket and trousers.

**KEY FEATURES**

- Fully waterproof outer fabric + taped seams
- Retro-reflective tape on hood, upper arms, wrists and ankles
- Adjustable waist belt
- Storm flap
- 5 pockets: 2 chest pockets with water repellent flaps + marine grade whistle, 2 lower hip pockets with fleece hand warmer, 1 Napoleon pocket under storm flap
- Reinforcement panels added to knees and seat area
- Leg zips for ease of donning over boots
- Anti-flushing straps to arms and legs with easy grip pull tabs
- Inner adjustable neoprene wrist seals

**AQUAFLOAT SUPERIOR SUIT 1MH4**

EN 343 | BUOYANCY 74N | EN ISO 12402
The Smart SOLAS Suit 1A is a semi-dry suit which provides optimum features and flexibility as a working suit combined with full approval as a SOLAS Immersion + Anti-Exposure Suit offering multifunctional use for any work or emergency abandonment situation.

**SUPERIOR BENEFITS**

- Provides a minimum of 1 hour of thermal protection against cold water shock and delays hypothermia upon immersion
- Can also be used as a working suit due to flexibility and comfort of design
- SOLAS approved retro-reflective tape to hood, shoulders, arms and back
- Provides additional buoyancy due to inherent flotation foam lining in excess of the SOLAS requirements of 70 Newton for an anti-exposure suit
- Fixed insulated hood for constant wear working use

**KEY FEATURES**

- Additional neoprene hood for extra thermal protection during water immersion
- Comfortable soft neoprene neck seal
- 5 fingered neoprene gloves stowed in arm pockets for working use and for thermal protection during water immersion
- Adjustable waist belt with heavy duty metal interlocking buckles
- Soft and flexible neoprene socks for flexibility to wear under standard work boots and give added thermal protection during water immersion
- Wide anti-flushing straps on arms and ankles to give added thermal protection during water immersion
- Elasticated leg panels for snug fit and to increase thermal protection during water immersion
- Colour coded and sized storage bag with quick-rip touch and close opening panel to allow rapid donning in an emergency situation
- Compatible with Mullion SOLAS Hi-Rise 275N Lifejackets
- Inner fixed neoprene wrist seals

**SMART SOLAS SUIT 1A (SSS1A)** 1MG4

- SOLAS 2010
- BUOYANCY 100N

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Colour coded and sized storage bag with quick-rip touch and close opening panel to allow rapid donning in an emergency situation
Compatible with Mullion SOLAS Hi-Rise 275N Lifejackets
Inner fixed neoprene wrist seals
The Smart SOLAS Suit 2A is a semi-dry suit and similar to the SSS 1A but has a higher buoyancy and thermal protection level (6 hours) provided by an additional foam insulation liner.

Additional features to SMART SOLAS suit 1A:

- Provides a minimum of 6 hours of thermal protection against cold water shock and hypothermia upon immersion
- Double layer foam insulation lining
- Higher buoyancy due to double foam layer
- Thicker neoprene boots
- No fixed hood
The HI-Rise 275 is a stylized horseshoe design with a zip closure cover and a double back strap for extreme offshore use.

OUTER COVER
- Durable waterproof fabric
- Zip fastening cover
- Reflective silver piping on the front
- Adjustable waist belt
- Stainless steel interlocking belt buckles
- Stainless steel D-ring on belt
- Crutch strap

BLADDER
- Buddy line
- Automatic water-activated SOLAS light with manual switch option also
- Marine grade whistle
- Oral inflation tube
- Over pressure tube + relief valve on front chamber for manual inflation and deflation and also to relieve any excess pressure if both chambers are fired simultaneously
- SOLAS approved retro-reflective tape
- Inflation systems
- 2 x 60g CO2 gas cylinders
**SOS HI-RISE 275**

EN ISO 12402 + SOLAS  | BUOYANCY: 320N  | Double Chamber

(*) Approvals: SOLAS 2010 (according to MSC. 81(70); MSC. 200(80); MSC.207 (81); MSC.226(82)) + EN ISO 12402-2

**SUPERIOR BENEFITS**

The SOS Hi-Rise 275 is a lifejacket specifically designed to integrate a Personal Locator Beacon (PLB). This lifejacket is compatible with any Sea Marshall AU9 model.

**THE ULTIMATE IN SAFETY FOR LOCATION AND RESCUE!**

Additional features to HI-RISE 275 REGULAR:

- Durable wipe clean PVC reinforcement
- Black/silver chequered retro-reflective tape on the upper chest
- 2 inflation systems operational readiness indicator windows on the front
- Beacon activation indicator window
- Service date information window on the front
- Additional foam and double fabric padding layer to protect the beacon inside the cover
- Elastic housing for beacon on the inside of the cover
- Antenna guidance loops on the bladder for beacon signal effectiveness
- Snag proof press-stud security system for zip closures

**HI-RISE 275 + FALL ARREST HARNESS**

EN ISO 12402 + SOLAS  | BUOYANCY: 320N  | DOUBLE CHAMBER

(*) Approvals: SOLAS 2010 (according to MSC. 81(70); MSC. 200(80); MSC.207 (81); MSC.226(82)) + EN ISO 12402-2

**SUPERIOR BENEFITS**

The Hi-Rise 275 SOLAS lifejacket is also available with the addition of a fall arrest harness. The lifejacket has an attachment system, which can easily be fitted to most fall arrest harnesses.

- Standard fall arrest harness options available
- Other models of fall arrest harness can be considered on request.

**THE HI-RISE 275 SOLAS LIFEJACKET IS IDEAL FOR EXTREME OFFSHORE USE**
The Mariner 275 is a standard horseshoe design with a zip closure cover and a single back strap.

**KEY FEATURES**

**Outer cover**
- Durable waterproof fabric
- Zip fastening cover
- Adjustable waist belt
- Stainless steel interlocking belt buckles
- Stainless steel D-ring on belt
- Crutch strap

**Bladder**
- Marine grade whistle
- Oral inflation tube
- SOLAS approved retro-reflective tape on bladder
- Red recovery grab strap on bladder marked “LIFT”
- Inflation system
- 60gm CO2 gas cylinder

**MARINER 275 REGULAR**

<table>
<thead>
<tr>
<th>EN 399</th>
<th>BUOYANCY: 275N</th>
<th>SINGLE CHAMBER</th>
</tr>
</thead>
</table>

**SUPERIOR BENEFITS**

The Mariner 275 Wipe Clean PVC reinforced version is ideal for heavy duty industrial use with special protective clothing.

Additional features to Mariner 275 Regular:
- Durable wipe clean PVC reinforcement
SUPERIOR BENEFITS

The Mariner 275 hi-vis Flame Retardant Antistatic lifejacket has the same features as the Mariner 275 FR AST and offers the wearer extra visibility when worn.

It has been specifically designed to be compatible to wear with a full FR AST protective coat from our in-house range – the Sioen Duffel style. This ensures that the FR AST properties of the coat are not compromised by the use of a lifejacket over the top. The positioning of the retro-reflective tape also ensures non-interruption of the hi-visibility EN 471 requirement of the coat as it blends in with it to give full conformity in the combination of wear.

Additional features to Mariner 275 Regular:

+ Hi-vis orange or yellow cover
+ Vertical Chest and diagonal shoulder reflective tape bands on cover positioned to blend with equivalent FR AST coats – style 9484

SUPERIOR BENEFITS

The Mariner 275 Welders lifejacket is ideal for use by workers conducting welding activities in marine environments. This Lifejacket is light weight and comfortable with a tough Panotex® aluminized cover protecting it from molten metal splashes and sparks. This lifejacket has a touch and close fastening cover.

Additional features to Mariner 275 Regular:

+ Touch and close fastening cover instead of zip fastening cover
+ Durable aluminized Panotex® silver wipe clean cover
+ Protection against molten metal drops during welding (EN 348, as per EN 470/1), protection against convective heat (EN 367, as per EN 531), radiant heat (EN 366, as per EN 531), molten aluminium (EN 373, as per EN 351) and molten iron splash (EN 373, as per EN 531)
MARITIME PPE PRODUCT STANDARDS

EN 393 / EN ISO 12402-5: 50N BUOYANCY AIDS

Have a buoyancy of no less than 50 Newton for the average adult. This level is intended for use by those who are competent swimmers and who are near to bank or shore, or who have help and a means of rescue close at hand. These garments have minimal bulk, but they are of limited use in disturbed water, and cannot be expected to keep the user safe for a long period of time. They do not have sufficient buoyancy to protect people who are unable to help themselves. They require active participation by the user.

EN 399 / EN ISO 12402-2: 275N LIFE JACKETS

Have buoyancy of no less than 275 Newton for the average adult. This level of lifejacket is intended primarily for offshore use under extreme conditions. It is also of value to those who are wearing clothing which traps air or loads such as tool belts which may adversely affect the self-righting capacity of the lifejacket.

IMO / SOLAS / MED

The International Maritime Organisation governs the Convention of Safety Of Life at Sea (SOLAS).

This Convention requires that SOLAS requirements are met for all life-saving equipment carried and used on board all ships on international voyages including passenger ships and cargo ships of 500 gross tonnes or more. This includes lifejackets, abandonment suits and immersion suits.

Recognition that the equipment fully complies with the requirements of the MED (Marine Equipment Directive) will be denoted by a 'Ships Steering Wheel' mark which must be on all equipment sold to European Community Ships of 500 tons or more in size.

EN 343

Protective clothing against rain, wind and cold at temperatures higher than -5°C.

Performance parameters:
- x: waterproofness (3 levels)
- y: breathing properties (3 levels)

EN ISO 20471

High-visibility clothing:
- x: surface of fluorescent and retroreflective material (3 levels)
- y: quality of the retroreflective material (2 levels)
### SIZE TABLE

#### SIZE TABLE: FLOTATION GARMENTS: BODY MEASUREMENTS

<table>
<thead>
<tr>
<th>Size</th>
<th>Mass Kg</th>
<th>Height</th>
<th>Chest</th>
<th>Waist</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>&lt; 50 kgs</td>
<td>158-176</td>
<td>80-88</td>
<td>68-76</td>
</tr>
<tr>
<td>S</td>
<td>50-70 kgs</td>
<td>164-182</td>
<td>88-96</td>
<td>76-84</td>
</tr>
<tr>
<td>M</td>
<td>70-80 kgs</td>
<td>164-182</td>
<td>96-104</td>
<td>84-92</td>
</tr>
<tr>
<td>L</td>
<td>80-90 kgs</td>
<td>170-188</td>
<td>104-112</td>
<td>92-100</td>
</tr>
<tr>
<td>XL</td>
<td>90-110 kgs</td>
<td>170-188</td>
<td>112-120</td>
<td>100-108</td>
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<tr>
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<td>&gt; 110 kgs</td>
<td>176-194</td>
<td>120-128</td>
<td>108-116</td>
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<tr>
<td>XXXL</td>
<td>&gt; 110 kgs</td>
<td>176-194</td>
<td>128-136</td>
<td>116-124</td>
</tr>
<tr>
<td>XXXXL</td>
<td>&gt; 110 kgs</td>
<td>176-194</td>
<td>136-144</td>
<td>124-132</td>
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</table>

#### SIZE RANGE: SMART SOLAS: BODY MEASUREMENTS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Height</th>
<th>Chest</th>
<th>Waist</th>
<th>Socks 1MG4</th>
<th>Socks 1MG5</th>
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</thead>
<tbody>
<tr>
<td>S</td>
<td>164-182</td>
<td>80-96</td>
<td>68-84</td>
<td>40/42</td>
<td>43/45</td>
</tr>
<tr>
<td>M</td>
<td>170-188</td>
<td>96-112</td>
<td>84-100</td>
<td>43/45</td>
<td>46/48</td>
</tr>
<tr>
<td>L</td>
<td>176-205</td>
<td>112-136</td>
<td>100-124</td>
<td>43/45</td>
<td></td>
</tr>
<tr>
<td>XL</td>
<td>176-205</td>
<td>136-144</td>
<td>124-132</td>
<td>46/48</td>
<td></td>
</tr>
</tbody>
</table>

#### SIZE RANGE: SINGLE CHAMBER LIFEJACKETS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Mass Kg</th>
<th>Chest</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNI</td>
<td>≥ 40 Kgs</td>
<td>86cm-151cm</td>
<td>≥ 150 cm</td>
</tr>
</tbody>
</table>

#### SIZE RANGE: HI-RISE LIFEJACKETS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Mass Kg</th>
<th>Chest</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNI</td>
<td>≥ 40 Kgs</td>
<td>≤ 180 cm</td>
<td>≥ 150 cm</td>
</tr>
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</table>