





Fibrelight is a UK company established in 2007;
all Fibrelight products are manufactured in the UK.

Fibrelight products are used globally by cruise lines, workboats,
Navies, Special Forces, emergency services and
the outdoor activity and rescue communities.

The International Convention for Safety of Life at Sea (SOLAS), 1974

The SOLAS Convention in its successive forms is generally regarded as the most important of all international treaties concerning the safety of merchant ships.

The first version was adopted in 1914, in response to the Titanic disaster, the second in 1929, the third in 1948, the fourth in 1960 and the most recent in 1974.

The main objective of the SOLAS Convention is to specify minimum standards for the construction, equipment and operation of ships, compatible with their safety.

Fibrelight Manufacture

Fibrelight products are constructed using carbon fibre
(or occasionally fibreglass) rods enclosed in flanged tubular webbing
which together create an incredibly strong structure.

Carbon fibre is an extremely strong and light fibre-reinforced plastic which contains carbon fibres; it is five times as strong as steel, twice as stiff, yet is about one third of the weight. Carbon fibres can be expensive to produce but are commonly used wherever high strength-to-weight ratio and rigidity are required. Fiberglass is a type of fibre-reinforced plastic (GRP) which is similar to carbon fibre in strength, is slightly more flexible but is heavier.

Carbon fibre is currently about three times more expensive than GRP.



MAN OVER BOARD (MOB) RECOVERY CRADLE

THE FIBRELIGHT MOB RECOVERY CRADLE IS A MCA APPROVED 'MAN OVERBOARD RECOVERY DEVICE'. THE CRADLE HAS BEEN ACCEPTED BY THE MCA (UK FLAG) TO BE USED ON ALL VESSEL TYPES.

The Fibrelight MOB Recovery Cradle is a maritime recovery system that can be operated by a single crewmember. The cradle can also be used as a boarding ladder, scramble net and stretcher. It is lighter, more compact and more versatile than any comparable device on the market. The cradle requires only monthly visual inspections by a crew-member and minimal maintenance. It has been primarily designed for easy use by rescue craft, rigid inflatables, ship lifeboats, tug boats and marinas; it can however be used by any vessel of a suitable size. One end of the cradle is secured to the vessel with the outboard end held away from the vessel by hand or boat hook – the MOB is then guided into the cradle and once securely in place the casualty is rolled into the vessel rung by rung using a parbuckling action.

Patents / Certificates:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803

Registration (IPO):
4028064

Tested and Certified by
Lloyd's Register: SAS
S150121/M3

KEY FEATURES

- MCA approved
- Lightweight
- Portable
- Compact
- Multiple uses (recovery cradle, boarding ladder, scramble net, stretcher)
- No requirement for annual servicing
- 3 year manufacturer's warranty

SPECIFICATIONS

Width:	1.3m, 1.55m, 1.8m, 2.1m
Length*:	2m – 9m (15m scramble net)
Weight:	1.6 kg per metre
Safe working load as:	
Cradle	150 kgs
Scramble Net	600 kgs

*To calculate the recommended length of a cradle double the Freeboard height of the vessel and add one metre.

THE FOLLOWING ADDITIONAL EXTRAS ARE OFFERED:

- Attachment Slings to add length and convert the cradle from 6-point linkage to 2 or 3-point linkage
- Ballast Rungs to offer sinkage in the middle rungs of the cradle
- Extendable Rescue Hook to assist with bringing the MOB towards the cradle
- Loop-Through Bag to protect and safely store a cradle in its position of use





BODY OVERBOARD (BOB) TRAINING DUMMY

THE FIBRELIGHT BOB DUMMIES ARE AN INEXPENSIVE TRAINING AID TO ASSIST USERS IN PRACTICING THE RECOVERY OF AN UNCONSCIOUS CASUALTY WITH A FIBRELIGHT CRADLE OR SIMILAR PRODUCT. THE FIBRELIGHT BOBS ARE EASY TO STORE ON A VESSEL AS THEY TAKE UP VERY LITTLE SPACE.

BOB uses a PU coated heavyweight polyester outer fabric and is neutrally buoyant when filled with water. More than ever BOB accurately replicates a real-life casualty and is an ideal training aid.

Patents / Certificates:

IPO - Registered Design
Number: 5003208

BOB has been fitted with straps across its body and legs to add robustness, simulate clothing and to aid with recovery; these straps allow a hook or pole to be used to bring BOB alongside the vessel for recovery drills to be performed.

BOB is filled with water only when it is needed for training and should be emptied immediately thereafter.



KEY FEATURES

- Realistic
- Folds flat for easy storage
- Simple to use
- Inexpensive

SPECIFICATIONS

Width:	0.6m
Length:	1.74m
Weight when full:	Up to 55kg
Weight when stored:	1.14kg



BODY OVERBOARD (BOB+) TRAINING DUMMY

BOB+ provides an option for users who require a dummy for a longer training session or one that involves time 'out of the water'. BOB+ uses a coated polyester outer but also has a polyurethane liner, which means that it will hold water for longer usage or on land for a short period. BOB+ will retain 80% of its starting weight after 3 hours on land. as with BOB, BOB+ is very easy to refill with water.

Patents / Certificates:

IPO - Registered Design
Number: 5003208

BOB+ has also been fitted with straps across its body and legs to add robustness, simulate clothing and to aid with recovery; these straps allow a hook or pole to be used to bring BOB+ alongside the vessel for recovery drills to be performed.

For prolonged usage, BOB+ will retain its weight for much longer than the original BOB.

Both training aids are designed to be treated as if they were a real life casualty and therefore should be given the same respect as if they were a human.



KEY FEATURES

- Realistic
- Folds flat for easy storage
- Simple to use
- Inexpensive

SPECIFICATIONS

- | | |
|---------------------|------------|
| Width: | 0.6m |
| Length: | 1.74m |
| Weight when full: | Up to 55kg |
| Weight when stored: | 1.2kg |



MASS CASUALTY RECOVERY (MCR) CRADLE

THE FIBRELIGHT MCR CRADLE IS A MASS RESCUE DEVICE BUILT USING THE SAME ROBUST CONSTRUCTION AS THE POPULAR MCA APPROVED FIBRELIGHT MOB RECOVERY CRADLE. DESIGNED FOR USE BY OFFSHORE INDUSTRIES VESSELS, COASTGUARDS AND TUG BOATS.

The Fibrelight MCR Cradle is a maritime recovery system that is operated from a deck crane and manoeuvred into position to recover multiple casualties from the water at any one time. The Fibrelight MCR Cradle is lighter, more compact and more manoeuvrable than comparable products on the market. The cradle requires only monthly visual inspections by a crew-member and minimal maintenance, thus it requires no annual manufacturer servicing. To use the MCR Cradle the support vessel is positioned alongside the casualties; the cradle is then lowered into the water and manoeuvred to pick up the casualties using horizontal recovery.

Patents / Certificates:

UK Patent Application:
GB1322903.4

International Patent
Application:
PCT/GB2014/053823

Registration (IPO):
4028064

KEY FEATURES

- Lightweight
- Compact
- Manoeuvrable
- Adjustable ballast weights
- No requirement for annual servicing
- 3 year manufacturer's warranty

SPECIFICATIONS

- | | |
|------------------|-------------|
| Width: | 7m |
| Length: | As required |
| Weight (at 10m): | 350 kgs |

The MCR Cradle is constructed using GRP rods enclosed in flanged tubular webbing. The webbing is a patented Wislock construction which creates an incredibly strong structure. The cradle has been successfully tested for thermal ageing, weathering, UV light and oil resistance.

THE FOLLOWING ADDITIONAL EXTRAS ARE OFFERED:

- Ballast Rungs to offer sinkage in severe weather conditions
- Extendable Rescue Hook, to assist with bringing the Man Overboard (MOB) towards the Cradle
- BOB Training Dummy to enable the crew to train with the MCR Cradle



EMERGENCY LADDER

THE FIBRELIGHT EMERGENCY LADDER IS A MCA APPROVED 'MEANS OF EMBARKATION' AND LIFE SAVING DEVICE. THE LADDER HAS BEEN ACCEPTED BY THE UK MARITIME COASTAL AUTHORITY (MCA) TO BE USED ON ALL VESSEL TYPES.

The Fibrelight Emergency Ladder is a strong durable device used globally on cruise liners, merchant ships, offshore support vessels, naval ships and super yachts. It has been designed for use by a single person: it can be deployed in less than a minute as it is both lightweight and easy to use.

The ladder is a standard width of 60cm and is produced in lengths of 2 - 60 metres. The ladder contains no metal or mechanical moving parts and as such requires no maintenance other than visual inspections.

A 30 metre ladder weighs less than 30 kilograms. With a natural step action the double rung ladder is faster to climb, easier to use and safer to descend than single rung ladders and other competitor products.

Patents / Certificates:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803

Certificate of Design
Registration (IPO):
4028065

Tested and Certified by
Lloyd's Register: SAS
SI70055/M1





KEY FEATURES

- MCA approved
- Lightweight
- Portable
- No requirement for annual servicing
- 3 year manufacturer's warranty

SPECIFICATIONS

- | | |
|--------------------|------------------|
| Width: | 0.6m |
| Length*: | 2m – 60m |
| Weight: | 0.9 kg per metre |
| Safe working load: | 600 kgs |

*The recommended length for a Fibrelight Emergency Ladder is the Freeboard height of the vessel plus 20% to allow for listing.

The Fibrelight Emergency Ladders are constructed using carbon fibre rods enclosed in flanged tubular webbing which together create an incredibly strong structure. The ladders exceed the ISO 799 strength test, part of the SOLAS approval programme, which requires successive rungs to be loaded to over 900kgs and sustained for one minute without failure. The Fibrelight Emergency Ladder has been successfully tested for thermal ageing, weathering, UV light and oil resistance.

THE FOLLOWING ADDITIONAL EXTRAS ARE OFFERED:

- Attachments Slings to convert the ladder from 3-point linkage to 2- or 1-point linkage
- Stand Offs to create space between the ladder and the side of the vessel
- Ballast Rungs to offer stability in adverse weather conditions
- Spreader Bar to allow the ladder to be anchored between a doorway or window
- Jo Bird Chest, to safely store ladders
- Loop-Through Bag, to protect and safely store a shorter ladder in its position of use



THE FIBRELIGHT SELF RECOVERY LADDER, BASED ON THE MCA APPROVED FIBRELIGHT EMERGENCY LADDER, HAS BEEN DESIGNED AS A LIFE-SAVING DEVICE FOR FISHERMEN OPERATING VESSELS ON THEIR OWN OR WITH LIMITED CREWS.

The Fibrelight Self Recovery Ladder is kept in a burst-zip bag which is permanently attached to the side of the vessel. An adjustable cord allows the ladder to be pulled from the bag by a user who has fallen overboard, the bottom of the ladder falls into the water and the casualty can climb back into the vessel without any further assistance.

The ladder has been designed for use by a single person and can be deployed in seconds. The ladder has a width of 60cm and is manufactured in half metre lengths from 1-3 metres. The ladder has no mechanical moving parts and as such requires no maintenance other than visual inspections. The rungs are made of GRP although the bottom rung is made of stainless steel in order that the ladder sinks to a level in line with the user's foot.

Patents / Certificates:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803.

Certificate of Design
Registration (IPO):
4028065

Tested and Certified by
Lloyd's Register:
SAS S120038



KEY FEATURES
Lightweight
Portable
No requirement for annual servicing
3 year manufacturer's warranty

SPECIFICATIONS	
Width:	60cm
Length:	1m – 3m
Weight:	1.47 kg per metre
Safe working load:	600 kgs

The Fibrelight Self Recovery Ladders are constructed using GRP rods enclosed in flanged tubular webbing which together create an incredibly strong structure. The ladders exceed the ISO 799 strength test which is part of the SOLAS approval programme. The Fibrelight Self Recovery Ladder has been successfully tested for thermal ageing, weathering, UV light and oil resistance.

THE FOLLOWING ADDITIONAL EXTRAS ARE OFFERED:

- Attachments Slings to convert the ladder from 3-point linkage to 2 or 1-point linkage
- An additional white burst-zip bag is optional for Super Yachts to safely store the ladder instead of the traditional yellow burst-zip bag



THE FIBRELIGHT ROD STRETCHER IS A SUPER-LIGHTWEIGHT STRETCHER THAT CAN BE SWIFTLY SET UP AT THE SCENE OF AN EMERGENCY. THE ROD STRETCHER IS DESIGNED TO BE USED WITH LITTLE OR NO TRAINING.

The Rod Stretcher can be carried between a four to six man team whilst offering rigid support for the casualty. It is fully adjustable and can be used for a wide range of casualty sizes for both a vertical and horizontal lift. The simple and modern design allows a casualty to be recovered with minimal effort for the users. The stretcher's compact size enables it to be easily stowed in an emergency vehicle and carried by a single person to the scene of the emergency. The Rod Stretcher has been designed for use by rescue teams, paramedics and first aiders both on land and in water with the aid of the Fibrelight Flotation Supports (see photo above).

Patents / Certificates:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803

Certificate of Design
Registration (IPO):
4028067

KEY FEATURES

- Lightweight
- Rigid spinal support
- Fully adjustable for height
- Removable padded head & neck support
- Capable of vertical rescue
- Capable of water rescue
- 3 years manufacturer warranty

SPECIFICATIONS

- | | |
|--------------------|--------|
| Length: | 1.65m |
| Weight: | 6kgs |
| Safe working load: | 140kgs |

The Rod Stretcher can be supplied in multi colour or black.

The Fibrelight Rod Stretcher is constructed using carbon fibre rods enclosed in flanged tubular webbing which together create an incredibly strong structure. The result is a device that is very strong yet still lightweight and compact. The material is wipe and spray clean as well as rot and mildew resistant. The Stretcher has been snatch tested over 10,000 cycles with no deterioration. The Rod Stretcher has been successfully tested for thermal ageing, weathering, UV light and oil resistance.

THE FOLLOWING ADDITIONAL EXTRAS ARE OFFERED:

- Flotation Supports which as a pair will float up to 140kgs of weight
- Padded Bag which converts into a padded back support

FIBRELIGHT ACCESSORIES

THE FIBRELIGHT RANGE HAS A NUMBER OF ACCESSORIES TO COMPLEMENT THE PRODUCT OFFERING:



Attachment Slings

CQC has designed slings to allow flexibility of attachment: the sewn eyelets on either end of the Fibrelight Cradles and Emergency Ladders have been designed as attachment points to take loads up to 900kgs each, however if those eyelets are not suitable due to the design of your vessel then the slings can be used instead.

The Attachment Slings as a pair are load tested to 1980kg whether on a single point or dual point attachment.

- The slings are available in two lengths: standard (145cm) and long (231cm).



Stand-Offs

Pairs of stand-offs can be secured (either permanently or using Velcro) to the Emergency Ladder: this makes it easier for users to grip each rung as the stand-offs create a 7, 10 or 15cm gap between the ladder and the side of the vessel.

- Stand-offs can also be attached to the Fibrelight Cradle if required.



Jo Bird Emergency Ladder Chest

A Jo Bird Chest can be provided for onboard storage of the Emergency Ladder – this is recommended for longer ladders.



Ballast Rungs

Where extra weight is required in the water – for example in the central rung of a long cradle – we can replace the carbon fibre or GRP rod with one of stainless steel.



Extendable and Rigid Poles

We are able to offer an extendable pole that is used to manoeuvre the MOB towards or into the cradle.

We offer a smaller pole that can be attached to the outboard end of the cradle to assist in handling.



Cradle Floats

Some users prefer to have floats attached to the outboard end of the larger cradles. Therefore we are able to provide floats that easily attach to the rungs.



ESCAPE LADDERS

THE FIBRELIGHT ESCAPE LADDER IS A STRONG, DURABLE AND LIGHTWEIGHT LADDER THAT ALLOWS FOR ESCAPE FROM CONFINED SPACES, STAIRWELLS AND HIGH WINDOWS. IT CAN BE OPERATED BY A SINGLE PERSON AND BE ATTACHED AND READY TO USE IN SECONDS.

The Fibrelight Escape Ladder comes with a single point attachment at one end and a double point attachment at the other. It is designed to be climbed from either side and is strong enough to allow multiple users. It is swift to deploy from any tested anchor point and is compact enough that it can be stowed in a small box or bag at an escape point and brought into use immediately.

Patents:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803

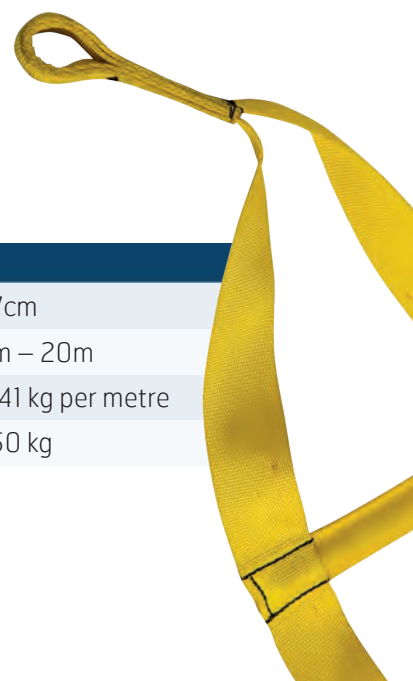
It has a standard width of 27cm and can be manufactured in lengths of 2m-20m. A 10m Fibrelight Escape Ladder weighs only 4.16 kg. The ladders are manufactured of woven polyester webbing reinforced with carbon fibre rods. The rods are enclosed in flanged tubular webbing which together create an incredibly strong structure. It has been tested by Lloyds British to 1.5 tonnes through the top loop and 550kg for each rung. The webbing has been successfully tested for thermal ageing, weathering, UV light and oil resistance.

KEY FEATURES

- Lightweight
- Simple to connect and use
- No metal parts
- Non-flammable
- Single or double connection
- 3 year manufacturer's warranty

SPECIFICATIONS

- | | |
|--------------------|-------------------|
| Width: | 27cm |
| Length: | 2m – 20m |
| Weight: | 0.41 kg per metre |
| Safe working load: | 550 kg |





TACTICAL ASSAULT LADDERS

THE FIBRELIGHT TACTICAL ASSAULT LADDER PROVIDES AN INCREDIBLY STRONG YET LIGHTWEIGHT SOLUTION TO THE CLIMBING REQUIREMENTS FOR MILITARY AND EMERGENCY SERVICES.

The Fibrelight Tactical Assault Ladders contain no metal parts, are non-conducting and therefore present no radar signal and are noiseless. It is a flexible device, thus it does not tangle like a wire ladder and for operator ease it can be climbed from either side. They have been well received by Special Forces units worldwide and have seen service with many military and law enforcement units. Whilst the Tactical Assault Ladders have been designed for use by Special Force units they can also be an essential piece of equipment for indoor climbers, riggers, contractors and for escape from confined spaces. They are also used for caving, mountaineering and yachting.

Patents:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803

KEY FEATURES	SPECIFICATIONS
Lightweight	Width: 20cm (single) 40cm (double)
Noiseless	Lengths*: 2m – 20m
No metal parts	Weights: 0.20kg per metre (single) 0.32kg per metre (double)
Non conducting	Safe working load: 275 kg (single) 400 kg (double)
Ladders can be joined together	
Can be climbed from either side	
3 year manufacturer's warranty	

*The ladders are available in 2, 5, 10, 15 and 20 metre lengths.

The ladders are manufactured of woven polyester webbing reinforced with carbon fibre rods. The rods are enclosed in flanged tubular webbing which together create an incredibly strong structure.

THE FOLLOWING ADDITIONAL EXTRAS ARE OFFERED:

- **Stand Offs:** to create space between the ladder and the side of a building
- **Pole Bag:** to connect a Fibrelight Assault Ladder to a pneumatic pole

ACTIVE LADDERS

THE FIBRELIGHT ACTIVE LADDER PROVIDES AN INCREDIBLY STRONG YET LIGHTWEIGHT SOLUTION TO THE CLIMBING REQUIREMENTS OF EMERGENCY SERVICES, MILITARY AND SPORTS USERS.

The Fibrelight Active Ladders contain no metal parts, are non-conducting and therefore present no radar signal and are noiseless. The Fibrelight Active Ladder is similar to the Fibrelight Tactical Assault Ladder but uses GRP instead of carbon fibre rods. This has the effect of making the ladder slightly heavier. The Fibrelight Active Ladders are available in both single rung (20cm) and double rung (40cm) widths. Pairs of ladders can be linked together to form double lengths.

Patents:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803



KEY FEATURES

- Lightweight
- Noiseless
- No metal parts
- Non conducting
- Ladders can be joined together
- Can be loaded in either direction
- 3 year manufacturer's warranty

SPECIFICATIONS

Width:	20cm (single) 40cm (double)
Lengths*:	2m – 20m
Weight:	0.25kg per metre (single) 0.42kg per metre (double)
Safe working load:	275 kg (single) 400 kg (double)

*The ladders are available in 2, 5, 10, 15 and 20 metre lengths.

The ladders are manufactured of woven polyester webbing reinforced with 10mm GRP rods. The rods are enclosed in flanged tubular webbing which together create an incredibly strong structure.

THE FOLLOWING ADDITIONAL EXTRAS ARE OFFERED:

- Stand Offs:** to create space between the ladder and the side of a building
- Pole Bag:** to connect a Fibrelight Assault Ladder to a pneumatic pole

TACTICAL NET

BASED ON THE TACTICAL ASSAULT LADDER, THE FIBRELIGHT TACTICAL NET ENABLES GROUPS OF 2-4 PERSONNEL TO BOARD A VESSEL OR RIG SIMULTANEOUSLY.

The Fibrelight Tactical Net has a standard width of 1.15m which allows two personnel to climb the net simultaneously, with lengths of 5m, 10m and 15m. Up to 4 personnel can use the net at any one time.

The Fibrelight Tactical Nets contain no metal parts, are non-conducting and therefore present no radar signal and are noiseless.

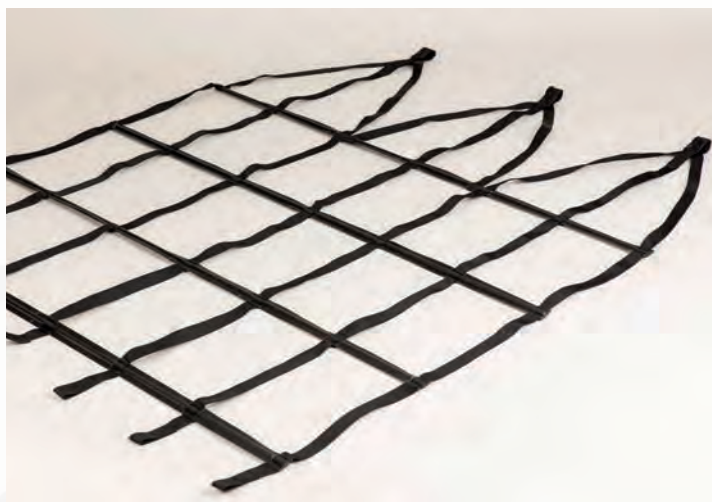
Designed in 2016, these Tactical Nets are already in service with Special Forces units.

Patents / Certificates:

UK Patent: GB2451127

European Patent:
2178743

US Patent: 8905803



KEY FEATURES

- Lightweight
- Noiseless
- No metal parts
- Non conducting
- Can be climbed from either side
- 3 year manufacturer's warranty

SPECIFICATIONS

Width:	1.15m
Lengths*:	5m – 15m
Weight:	0.17 kg per metre
Safe working load:	600 kg

*The nets are available in 5, 10 and 15 metre lengths



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