



Unique Group Buoyancy & Ballast

Helping contractors work
more safely, efficiently
and profitably since 1987

www.uniquegroup.com



SEAFLEX



Unique Group

Strength in Depth

As an independently owned global company, Unique Group leads the way in providing engineering expertise, equipment and the latest technology for the marine, diving and subsea market sectors.

Through capital investment in bespoke and off the shelf engineering solutions, the company delivers cost efficiencies across the oil and gas supply chain - onshore and offshore, surface and subsea.

Unique Group employs over 500 people worldwide through its five multi-site divisions – Survey Equipment; Marine & Subsea; Diving Equipment; Buoyancy & Ballast; and On-Site Engineering. Its 200-plus dedicated engineering specialists work across six strategically important global oil and gas regions.

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Since 1987, Seaflex have been helping our customers to work more quickly, more safely, more competitively and ultimately more profitably. This is the story of how we do it...



Risk Reduction from Proven Products

Seaflex equipment is designed, manufactured, tested and certified within ISO and OHSAS quality, safety and environmental systems and in full compliance with relevant IMCA and LEEA guidelines.

Where internationally-recognised International Marine Contractors Association D016 and Lifting Equipment Engineers Association 051 documents apply to our products, Seaflex can demonstrate 100 % compliance with those guidelines. For our customers' total peace of mind, we can provide:

- 3rd party test certificates confirming factors of safety (5:1 and 6:1 respectively)
- Evidence of subsea testing of safety-critical Air Lift Bag (ALB) inverter lines.
- Full ABS Product Design Assessment (PDA) certification for our ALBs and WaterLoad™ Bags (WLBs) up to 35t.

Guidance Notes summarising the most vital safety implications of these guidelines, and how Seaflex are able to prove the full compliance of our Air Lift Bags and WaterLoad™ Bags with these requirements are available.



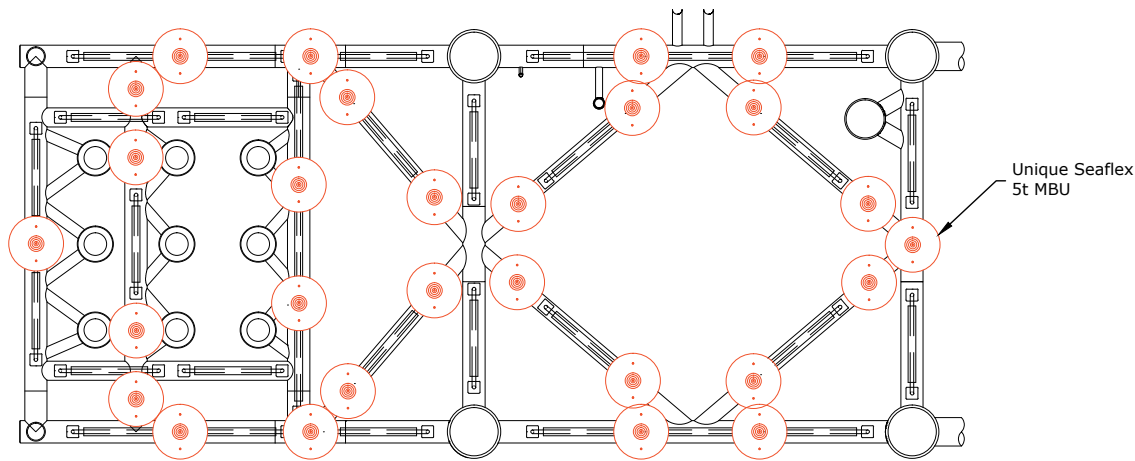


Drop testing of 20t WaterLoad™ bag to prove 6:1 factor of safety at TUV National Engineering Laboratory, Glasgow, UK.

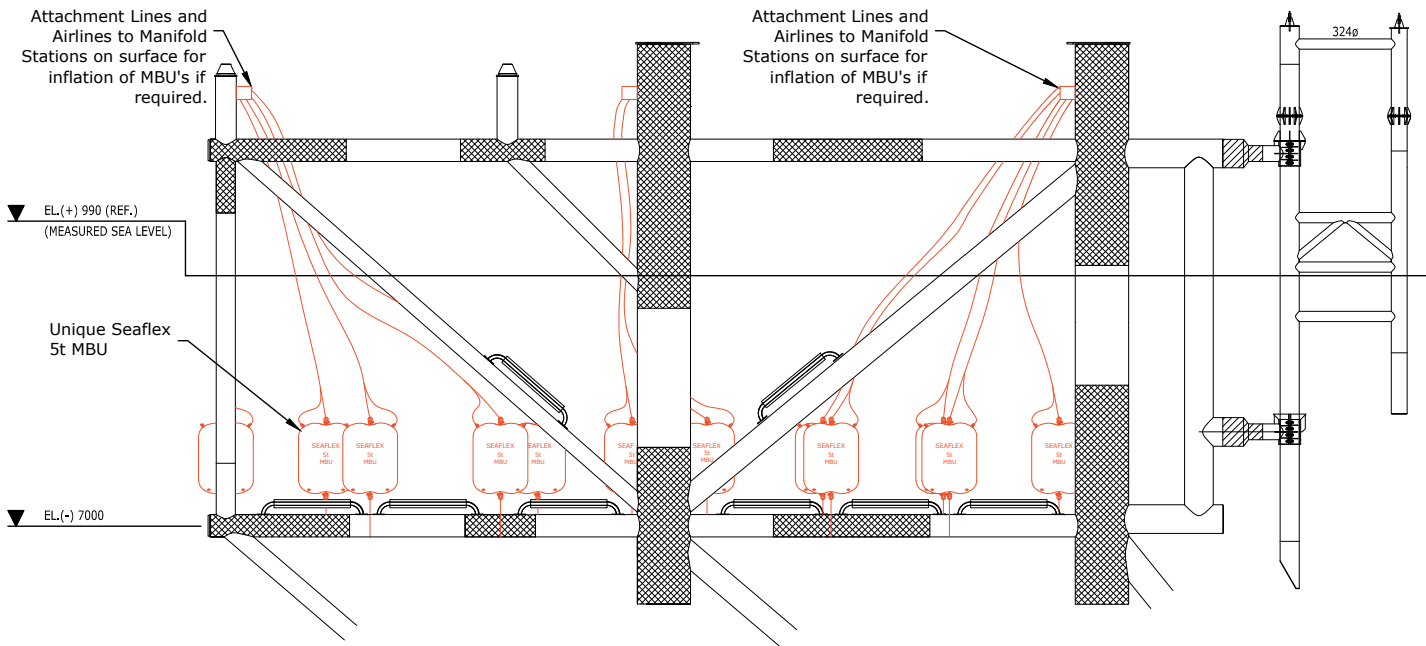
Project Engineering and Methods Support - Free of Cost or Obligation

Whereas others may try to sell such equipment from the pages of a catalogue whilst adding no other value to their price and delivery proposition, Seaflex understands the importance to contractors of getting the job done right first time. And the consequences to contractors of getting it wrong...

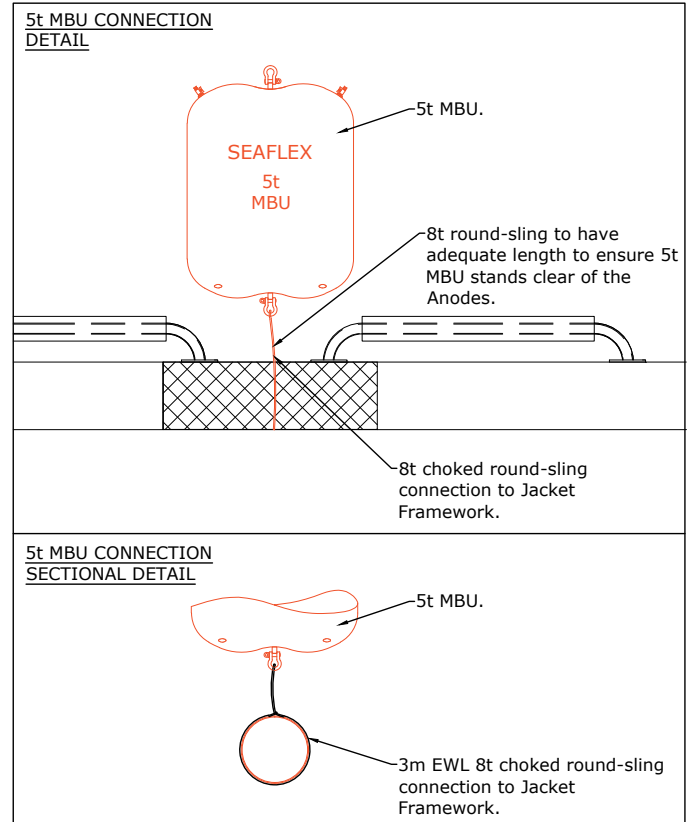
So, before we quote you for the hire or sale of the best bags in the business, we can offer you advice on the most suitable products for your application, how to rig them, and how to use them - to ensure that you get the outcome you are looking for.



HORIZONTAL FRAMING PLAN AT C EL (-)7000



ELEVATION FRAMING AT ROW 'C'



JACKET INSTALLATION

28 x 5t MBU's	= 140t
Total Buoyancy	= 140t

01	24.03.19	Initial Issue	GJP	GJB	GJB
Rev	Date	Description	Drawn	Checked	Appr.

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SCALE	N.T.S @ A3
DRAWN	GJP
REVISION	01

All Seaflex Products are Manufactured in the UK from Traceable, Certified Components of 100% European Origin

Cheaper alternatives to Seaflex have always been available. However our market-share is ever-growing because an ever-increasing awareness of health and safety around the world means that our customers tend to agree with us that they would not want to put themselves, their people, or their vessels above a lift bag or below a water bag which is made of uncertified, untraceable materials.

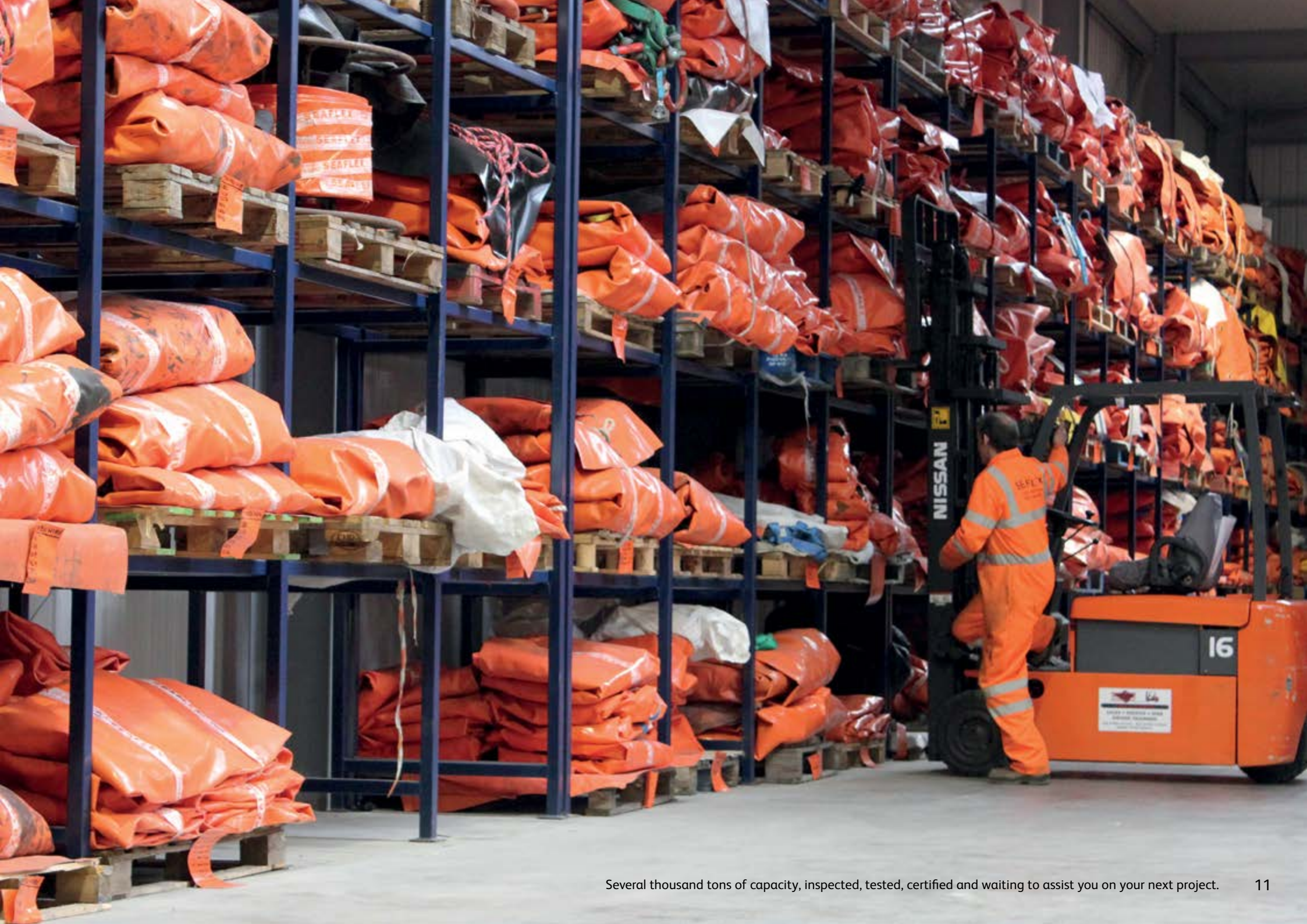


Purpose-built Seaflex production facility, Cowes, UK.

Immediate Ex-stock Availability for Hire or Sale, from Numerous Locations Worldwide

No other Buoyancy and Ballast manufacturer on the planet offers a larger stock position from a larger international network of offices and partners.

Seaflex products are supplied and supported globally on a 24/7 basis. We are there for you, wherever you need us and whenever you need us.



Several thousand tons of capacity, inspected, tested, certified and waiting to assist you on your next project.

Nothing Packs Down Smaller

500t of Seaflex fits inside a standard 20ft container, making for enormous cost and environmental savings compared to solid alternatives.

We had one client tell us that they used a dedicated barge alongside their pipelaying vessel to store their steel buoyancy tanks on, and that this barge cost them USD 8000 a day. That's more than the average daily rental cost of 1000t of Seaflex modules.

Just being able to lose that barge would pay for the Seaflex solution by itself, before any of the other related safety benefits and operational efficiencies are considered.



Seaflex MBUs facilitating bottom pull operation for Jan de Nul, South Riding, Bahamas.

Nothing Weighs Less

A 5t Seaflex MBU weighs less than 50kg / 1 % of its capacity. So two operatives can manually handle it out of the container and onto a pipeline.

Contrast that with the time and equipment involved in handling a 5t steel module weighing 2t or a 5t solid plastic module weighing 1t.

Then consider the rigging time to be saved via its single point of attachment.

Finally, assess the reduction of risk to your divers and your support craft: the air can be vented from these units before they are retrieved under zero load, rather than as high-energy solid projectiles.



Seaflex BOSIET Technicians Providing On-site Training and Support Worldwide

Seaflex are in a field of our own in offering full project lifecycle support.

We are with you from FEED phase right through to having technicians available to travel worldwide to supervise and ensure the most efficient and effective use of our equipment by our customers.

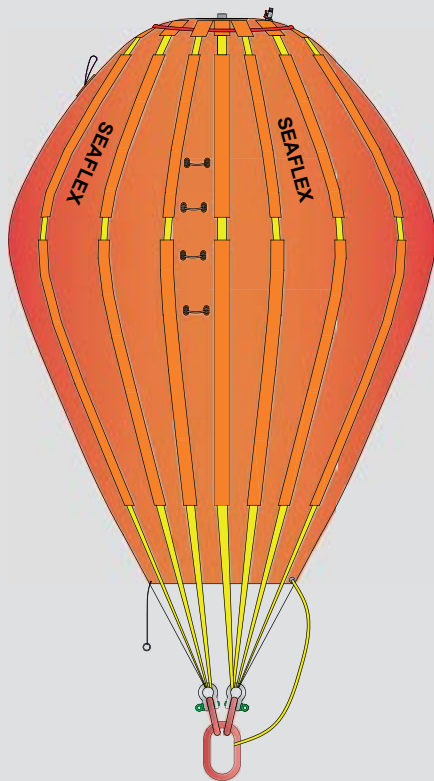
On land or at sea, our commitment to your success is total.



Seaflex ALBs - The Professionals' Choice

Our parachute-style Air Lift Bags have been developed not as a theoretical exercise by a desk jockey but in conjunction with actual, living, breathing divers and ROV operators.

Nothing in their class has been subject to a more challenging testing regime or comes with a higher level of certification as a result of that regime.



Model No	Inflated (Kgs & Mtrs)				Packed (Kgs & Mtrs)			
	Lift	H	Ø	Wt	L	W	D	No / pallet
250 ALB	250	1.3	0.9	3	0.4	0.2	0.4	40
500 ALB	500	1.7	1.2	5	0.5	0.3	0.5	30
1t ALB	1,000	1.9	1.6	11	0.6	0.4	0.6	20
2t ALB	2,000	2.5	1.8	23	0.8	0.4	0.8	10
3t ALB	3,000	3.2	2.0	32	0.8	0.4	0.8	6
5t ALB	5,000	3.7	2.0	38	0.9	0.5	0.9	5
10t ALB	10,000	4.5	2.4	75	1.2	0.5	1.2	3
15t ALB	15,000	5.4	2.7	110	1.2	0.6	1.2	2
20t ALB	20,000	5.5	3.2	120	1.2	0.7	1.2	2
25t ALB	25,000	5.9	3.8	175	1.2	0.9	1.2	1
35t ALB	35,000	6.5	4.0	230	1.4	1.2	1.4	1
50t ALB	50,000	8.2	4.5	416	2.6	1.22	0.96	1

The above table provides weights and dimensions for the most popular sizes of Seaflex ALB. The full range extends down to 25kg capacity.

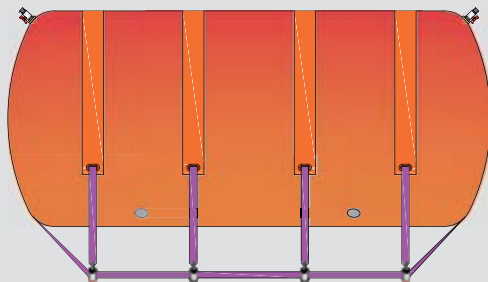
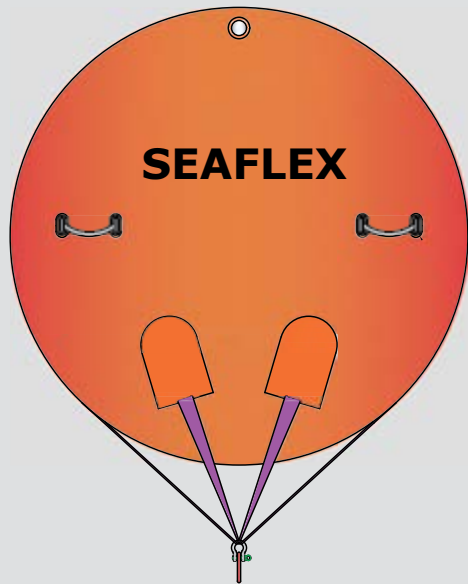


50t Seaflex ALBs assisting Lundin with FPSO disconnection, offshore Tunisia.

Seaflex IBUs - Flexible Multi-Purpose Buoyancy

Our multi-attachment enclosed Inflatable Buoyancy Units (IBUs) are designed for safe and certain operation in applications such as pipelaying, shallow-water salvage and towing, and draught reduction.

The buoyancy of each IBU can be controlled (increased or decreased) from the surface as required during and after the operation, so gives users the ability to safely apply and remove the Seaflex IBU to the load at zero capacity, only activating the buoyancy at the moment it is needed.



Model No	Inflated (Kgs & Mtrs)				Packed (Kgs & Mtrs)				
	Lift	L	H	Ø	Wt	L	W	D	No/Pallet
250 IBU	250	1.1	0.7	0.6	5	0.40	0.20	0.10	40
500 IBU	500	1.1	1.0	0.8	9	0.50	0.25	0.15	30
1t IBU	1,000	1.6	1.2	1.0	12	0.60	0.25	0.20	20
2t IBU	2,000	1.6	1.4	1.3	19	0.70	0.35	0.25	11
3t IBU	3,000	2.0	2.0	1.5	34	0.80	0.40	0.35	6
5t IBU	5,000	3.5	2.0	1.5	46	0.90	0.50	0.35	5
10t IBU	10,000	3.5	2.5	2.0	68	1.10	0.80	0.30	3
20t IBU	20,000	5.0	3.4	2.3	120	1.20	0.90	0.35	2
35t IBU	35,000	6.5	3.4	2.6	300	1.50	1.00	0.50	1



Mono Buoyancy Units (MBUs) - Revolutionising the Pipelaying Market

Seaflex enclosed Mono Buoyancy Units (MBUs) are designed for industry-leading efficiency in applications such as the laying of steel or HDPE pipelines - or for general support at or near the surface.

As they are attached to the load via a single point of connection, this massively reduces the time it takes to rig them up compared to multi-attachment alternatives.

As there is a structural internal connecting strop between each end of the MBU, it is possible to lift through or moor onto Seaflex MBUs - because they are capable of withstanding such through-loading in a way which similar-looking products without such an internal structure are not.



Model No	Inflated (Kgs & Mtrs)			Packed (Kgs & Mtrs)			
	Lift	D	H	Wt	L	W	H
1 MBU	1,000	1	1.5	15	0.6	0.5	0.2
2 MBU	2,000	1.33	1.7	18	0.75	0.6	0.2
3 MBU	3,000	1.5	2.2	27	0.8	0.65	0.2
5 MBU	5,000	1.75	2.2	37	1	0.8	0.2



5t Seaflex MBUs supporting 3-line bundle during swamp pull, Soyo LNG project, Angola.

Seaflex SeaSerpent™ - Control and Peace of Mind for Cables

The patented SeaSerpent system is designed to be the most cost-effective and efficient method by which a contractor can land a cable.

Several hundred metres of SeaSerpent, rolled on drums, can fit onto a standard pallet. Once the launch system is loaded with the drum and the deck crew are in position to secure the SeaSerpent, payout speeds well in excess of 5m/minute are the norm.

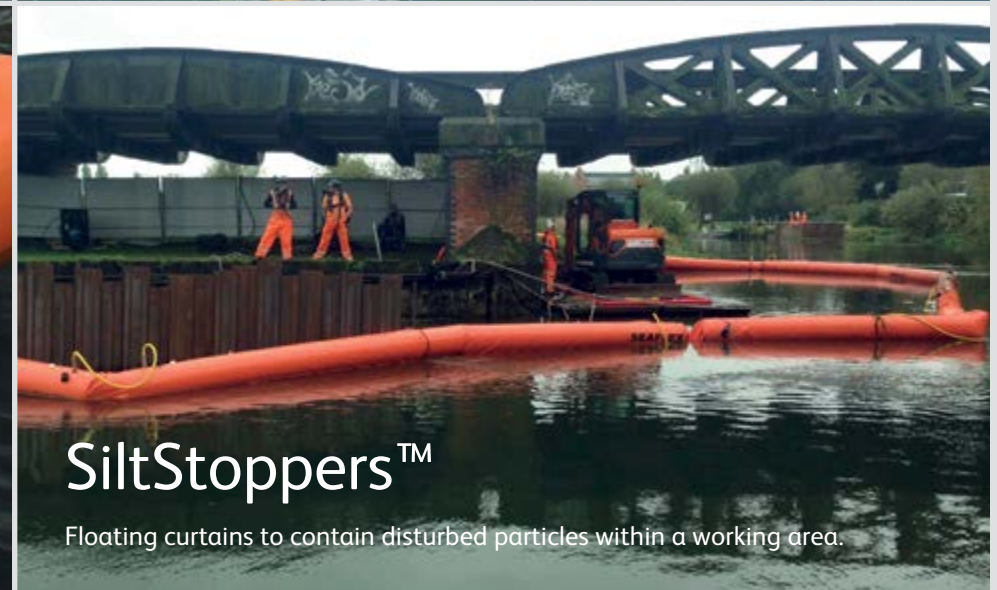
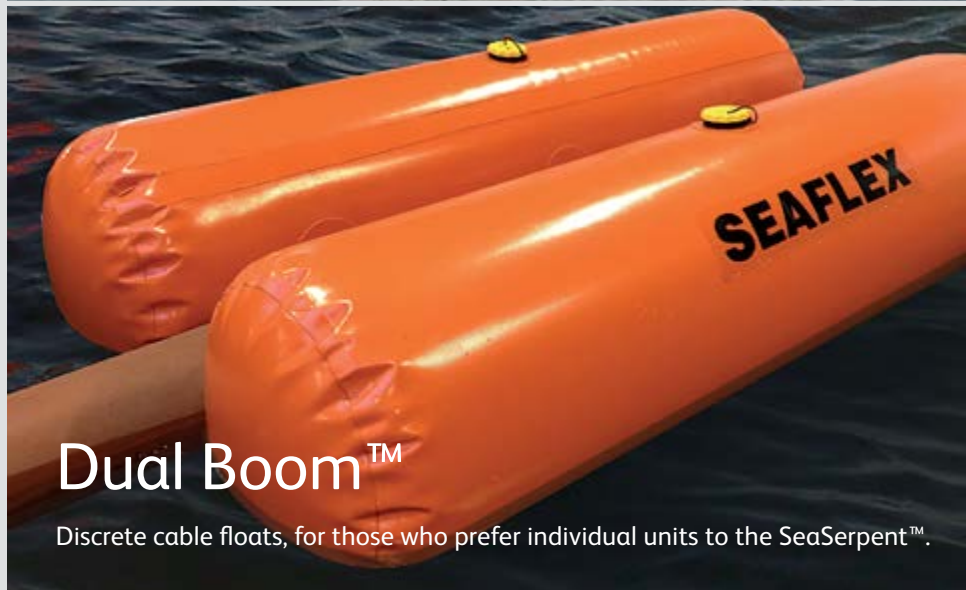
No other cable-laying buoyancy system offers the benefit of continuous support to the cable to avoid damage via point-loading along with the operational advantages of being able to drop the cable to the seabed and then lift it again at will.

SEAFLEX SEASERPENT Dimensions					
TYPE	LAY Flat Width	INFLATED O.D mm	BUOYANCY Kg/m	WEIGHT Kg/50m Section	100m DRUM Diameter & Width
2650-6-20	213	137	15	32	770 x 450
2650-5-16	258	164	22	37	770 x 450
2650-4-13	324	205	33	43	770 x 450
2650-3-10	434	275	60	54	770 x 550
2650-2-7	655	430	132	76	770 x 800

Drums for 200m lengths have a diameter of 1100mm



Other Buoyancy Products



Customised Buoyancy Solutions - Bring Us Your Headaches

From within the offshore windfarm installation industry came a requirement from a contractor for contingency buoyancy in case of failure of the end-caps of a turbine monopile during the float-out and installation operation. They wished to avoid the problems, and the costs, which would be associated with retrieving the monopile from the seabed in a busy shipping lane.

For this, we designed and manufactured the largest structures which we have ever made. At full inflation they were approximately 5.5m in diameter by 6m long and offered a phenomenal 140t of buoyancy. The principle was that they were inserted into the monopile and sealed in place - should the end-caps fail and the structure fill with water then the Seaflex bags provided sufficient reserve buoyancy to allow the monopile to remain afloat.

An ever-increasing amount of our work involves developing inventive solutions to customers' buoyancy requirements. Bring us your buoyancy challenges, and let us show you how we can resolve them for you safely and cost-effectively.

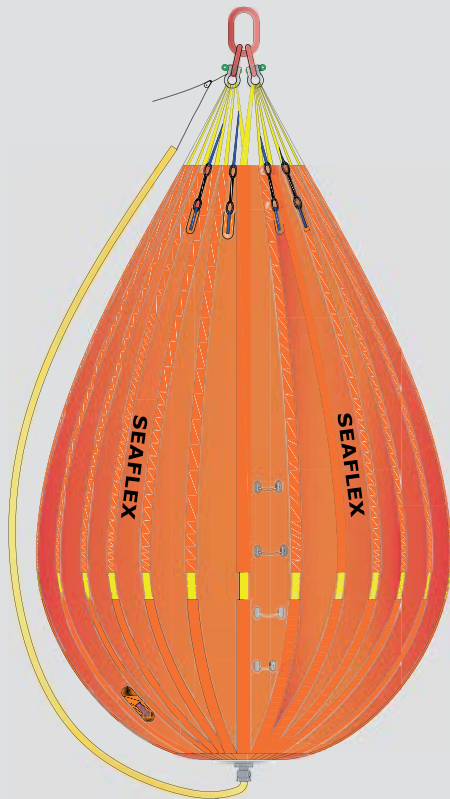


WaterLoad™ - When Only The Best Will Do

Seaflex WaterLoad™ bags (WLBs) are the safe, efficient and economical method of undertaking the testing of cranes, davits and other load-bearing structures.

All Seaflex WLBs are designed, manufactured, tested and certified in accordance with LEEA 051 guidelines and in particular have been drop-tested to prove a minimum 6:1 factor of safety on their WLL (4:1 on the 50t WLB due to test rig limitations). Units up to and including 35t also carry Product Design Assessment (PDA) from ABS - the first, and currently the only, waterbags in the industry to hold this level of certification.

All Seaflex WLBs are supplied in their own ISPM 15 transit cases rather than on pallets, to virtually eliminate the risk of damage during transport or storage compromising the performance of the bags onsite.



Unit		Packed			Filled		
Type	Kg	L	W	H	Kg	Diameter	Height
1-WLB	1,000	0.50	0.35	0.25	22	1.60	1.90
2-WLB	2,000	0.75	0.40	0.25	33	1.80	2.50
3-WLB	3,000	0.80	0.35	0.30	42	1.80	2.70
5-WLB	5,000	0.90	0.50	0.35	55	2.10	3.70
5LH-WLB	5,000	0.90	0.50	0.35	58	2.20	3.10
10-WLB	10,000	1.10	0.50	0.40	85	2.30	4.80
12.5-WLB	12,000	1.20	1.00	0.40	120	2.70	5.00
15-WLB	15,000	1.20	1.00	0.40	145	2.70	5.40
20-WLB	20,000	1.20	1.00	0.55	160	3.20	5.50
25-WLB	25,000	1.20	1.10	0.65	225	4.00	6.10
35-WLB	35,000	1.20	1.10	0.80	295	4.15	6.60
50-WLB	50,000	2.10	1.20	0.80	416	4.20	8.00
100-WLB	100,000	3.05	1.55	1.10	880	5.60	10.00

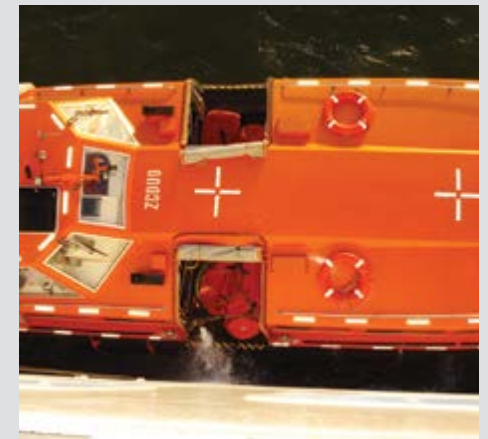


Seaflex Lifeboat Testing Kits (LTKs) - Speed and Safety Assured

The Seaflex LTK comprises up to 20 x 375 kg test bags with robust metallic fittings (sufficient to test an 80 man lifeboat) and a calibrated water meter. It also comes with a multiway manifold with quick connectors, colour coded delivery/ discharge hoses and an air driven double diaphragm pump with suction tube and delivery hose - which is rated to work in hazardous environments.

This allows the required load to be safely applied from the outside into tight spaces where traditional solid weights are difficult, and potentially dangerous, to position. Whilst normally used for the testing of lifeboats, the LTK offers the flexibility to, for example, efficiently test certain style of gangways.

The complete kit is supplied in a ISPM 15 compliant timber transit box (fork lift or crane sling) for ease of transport and stowage.



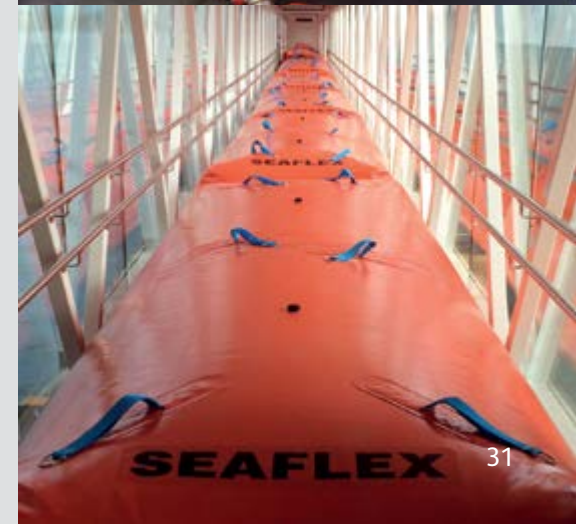
Seaflex Gangway Bags - Safety Guaranteed

We do still hear stories from certain parts of the world about gangways being load-tested by a team of people standing together on one – and then jumping. Fortunately, that seems to be the exception rather than the rule these days.

As with our entire range of water-filled test weights, Seaflex Gangway Testing Bags draw upon the top-quality design and construction principles proven in service over many years with our flagship WaterLoad™ range.

Seeing an increasing number of requests from customers looking for mattress-style bags to test gangways and other similarly-enclosed structures, Unique Seaflex now makes these available for customers to hire or purchase in sizes of their choosing.

Please contact us with your gangway testing requirements, for us to design up your ideal solution for you.



Our Credentials - Helping Customers Like You Since 1987

Seaflex manufactured our very first range of lift bags for rental and sale to service the diving industry in 1987, in sizes up to 500kg.

Over 25 years later, our biggest standard bag is 200 times larger than that at an industry-leading 100,000kg and we employ around 30 skilled staff at our custom-built 30,000 square foot manufacturing facility in Cowes on the Isle of Wight.

In 2011 Seaflex was acquired by the Unique Maritime Group, a global provider of integrated support services for the offshore sector. Unique Maritime Group's expanding network of companies are specialists in ROV, diving, survey, NDT and engineering services. With the benefit of UMG's global footprint and support structure, Seaflex is these days even better placed than ever to meet the needs of its customers – no matter where in the world they are working, nor how challenging or urgent their requirement may be.

As you would expect of a company working in an industry where the concepts of quality and safety are paramount, all our work is carried out within a system which complies with the ISO 9001- 2008 Quality Management Standard for full traceability – and we now have also gained ISO 14001 Environmental accreditation and ISO 18001 Health and Safety accreditation for our manufacturing operation. We have also had independent verification of the compliance of

our Seaflex WaterLoad™ bags with LEEA 051 guidelines and of our Buoyancy bags with the requirements of IMCA D-016. ABS have also issued us with full Product Design Assessment (PDA) certification for our main products.

But any company can talk about the vast amounts of testing, certification and accreditation which have been carried on their products – fewer companies can substantiate such claims. Seaflex is one of those which can back up their claims – however, our credibility does not come from bits of paper: it comes from our customers, from the work we have been doing with them for over 25 years, and from the fact that they keep coming back to us time and time again.



Our Philosophy - Whenever, Wherever

We have a simple philosophy here at Seaflex: We will do our utmost to deliver what our customers need from us, whenever they need it and wherever they need it.

That simple philosophy is born of several different levels of understanding:

- An expert understanding of how to design, manufacture, prove, deliver and support best-in-class bags for ballast or buoyancy.
- An in-depth understanding of the regulatory environments in which we and our clients operate - both onshore and offshore.
- The desire to understand our clients' businesses, and to work with them to achieve the best possible technical and financial outcome for them.

We are not complacent: we are only where we are due to our ability to keep our band of loyal customers happy, whilst adding to them by demonstrating to others the value which we can bring to their businesses. If we let that slip then we are nowhere. And that is why we keep investing in our business: to better serve your business. Hence the brand new factory capable of producing 3,500 tons of lift and water load testing capacity each and every month. And hence us holding and managing the largest global rental fleet of buoyancy and ballast bags.

As you continue to invest in us, we'll continue to invest in you. We are always happy to hear from customers new and old alike as to how we may better serve you. We will travel the world to meet with you at your convenience, and the doors of our factory are always open and the kettle is always on for visits from those who would like to see what we do, and how we do it, for themselves.

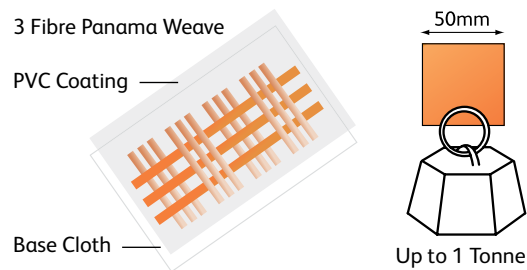


Seaflex - Technology, Service and Support

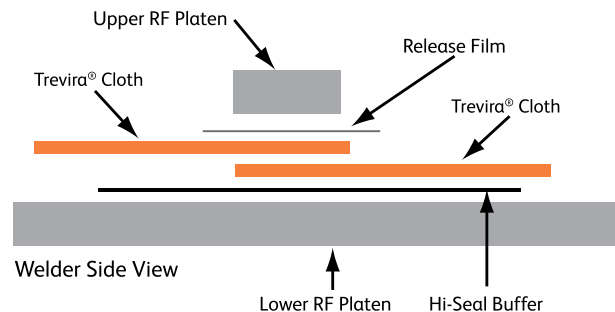
Manufacturing Technology

All Seaflex products are designed and manufactured in the UK.

Our bag canopies are constructed from High Tensile Trevira® Polyester base cloth (either 2 / 2 or 3 / 3 fibre panama pattern weave) coated with heavy duty UV stabilised PVC coating or, for special applications, polyurethane. Trevira is incredibly strong; a 50 mm wide 3/3 strip has a break load of approximately 1 tonne.



The panels for our bags are precision cut on our 15 metre long, 3 metre wide advanced automated table for perfect repeatability. Once inspected and approved panels are assembled by skilled personnel using Radio Frequency welding to strict quality control standards.



Certification

All our work is carried out within a system which complies with the ISO 9001-2009 Quality Management Standard as audited by Lloyds Register Quality Assurance for full traceability - and we have now gained ISO 14001 and ISO 18001 accreditation.



Service

Whether for hire or sale, all Seaflex products are sent out fully tested and inspected against their build criteria. And we do also offer on-site support to our clients in the use of our products - this most often happens within the more complex buoyancy applications for our products.

In the event that your Seaflex product should suffer minor damage in service, we can supply an approved, boxed field service kit comprising of patches, a professional quality heat gun and instruction manual to make good minor leaks prior to product refurbishment.

We can also advise on the viability of carrying out more extensive repairs, which would typically be undertaken either at our factory or at one of our approved service centres.

Support

Our support philosophy is "Wherever, Whenever". This underlines the Seaflex commitment to not just sending out tested, proven products in proper shipping crates and with the most comprehensive documentation package in the business - but to assisting our customers in every way possible throughout their time using our products, whether the job is a hire project or an equipment sale.

And we do also offer on-site support to our clients. This most often happens within the more complex applications for our products. However, we can offer on-site back up for any order we fulfil, no matter how big or small, no matter whether for hire or sale, no matter where in the world the project is taking place.

You can put your trust in Seaflex. We won't let you down.

To Conclude Our Story

Thank you for making it this far with us. Each of the elements of the Seaflex story, and each of the products you have read about, is designed to make life easier and more profitable for those who choose to work with us.

When these elements and these products are combined, the benefits to our customers become exponential - as can be seen from the example underneath relating to 5t pipeline buoyancy modules.

	5000KG STEEL BUOY	5000KG SOLID PLASTIC BUOY	5000KG SEAFLEX MBU
# Connections to Load	Typically 4+	Typically 4+	1
Approximate Handling and Rigging Time	15 minutes	15 minutes	5 minutes
Approximate Weight	2000kg	1000kg	40kg
# Per 20ft Container	4-6	4-6	100
Approx Purchase Cost	USD 5000-7500	USD 7500-10000	Approximately 50% cheaper (rental option approximately 75% cheaper, duration-dependent)

Table contents are a synthesis of customer interviews conducted March-April 2015. All prices are indicative, and subject to currency fluctuations and regional variation.

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