Marinas, Harbours and Fishing Docks

Floating Equipment Catalogue

LINDLEY
Established 1930

INDEX

About Us

Equipment and Solutions

LINDLEY MARINAS

LINDLEY MARINAS, a member of the LINDLEY GROUP of companies, is a specialist in the design, manufacture, supply, installation and maintenance of floating equipment for marinas, harbours and fishing docks.

The experience gained over more than 35 years of activity in the sector, our specialized technical staff, and our close collaboration with customers and suppliers, make **LINDLEY MARINAS** a company with unique expertise, offering a flexible and comprehensive range of solutions, products and services, highlighting:

- Floating Equipment and Solutions
- Mooring Systems
- Accessories and Services
- Equipment Rental
- Installation, Assembly, Maintenance and Technical Assistance

GRUPO LINDLEY

The **GRUPO LINDLEY** of companies was founded in 1930 as Ahlers Lindley, Lda., which today operates under the LINDLEY MARINAS brand. The group is composed of three independent companies: LINDLEY MARINAS, a specialist in the design and supply of equipment for marinas, harbours and fishing docks; ALMARIN, in the design and manufacture of marine aids to navigation; and ALMOVI, in the distribution and maintenance of lifting and handling equipment for ports and industry.

The services offered by the **GRUPO LINDLEY** cover the entire life cycle from design and supply to maintenance and sale of used equipment in the various areas of activity.

Each company employs a highly-skilled team of staff, capable of delivering solutions and services tailored to its customers, and prides itself in the more than 90 year history of standing by its customers with innovative solutions and continuous support.

FLOATING EQUIPMENT

LINDLEY MARINAS is focused on delivering the most advanced solutions incorporating technology, innovation and quality through in-house manufacturing, integration and distribution. We differentiate ourselves by the constant monitoring of the project and the after-sales service.

Our technical team supports our customers throughout the entire process, from the equipment selection to its installation and subsequent maintenance.

WAVE ATTENUATORS

REINFORCED CONCRETE

QMF

GENERAL FEATURES

Structure	Marine concrete with 45N/mm² density, watertight, reinforced with galvanized steel mesh
Core	Expanded polystyrene with 15kg/m³ density
Fenders	Nordic pine impregnated
Fasteners and fittings	Semi-flexible; bolts, washers and nuts in galvanized steel; block in marine elastomer
Flexibility	Modular construction with variable sizes
Mooring systems	Chains, elastic moorings, piles, metal profiles or radius arms
Services	HDPE conduits on both sides
Live load	Greater than 5kN/m²
Accessories and options	Non-linear geometries (30º, 45º, and 60º) are possible; Decks in Nordic pine, exotic wood or composite; Aluminum or cast iron cleats and bollards; Marine elastomer fenders; Concrete pigmentation; Additional connection and hatch boxes.

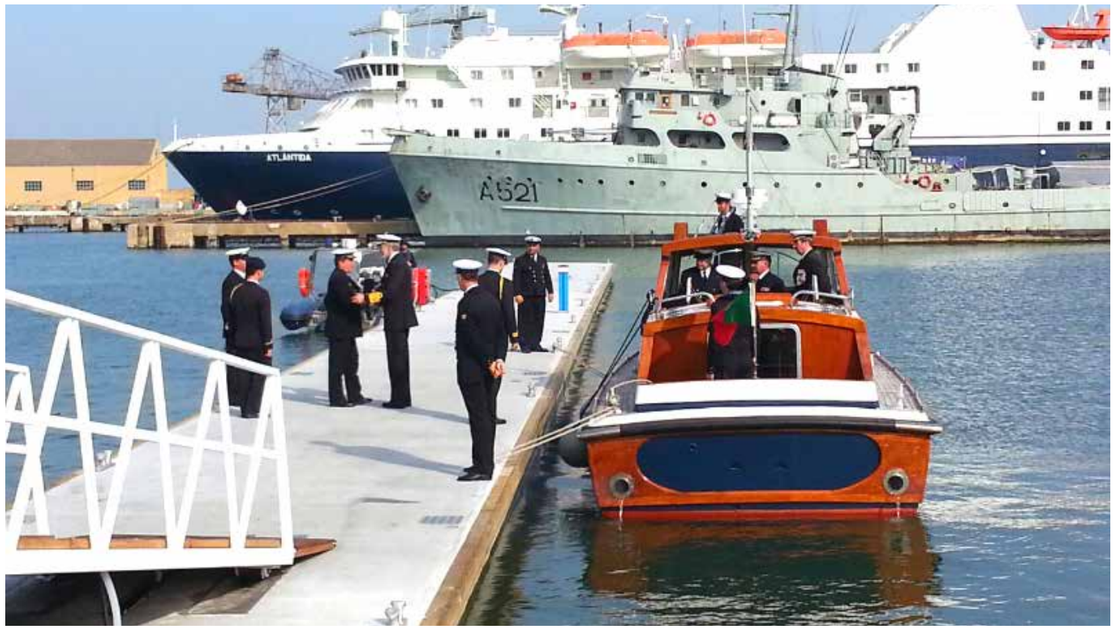
APPLICATIONS

• Wave attenuation in coastal sheltered and estuarine areas for watershed and dock protection

• Bridge piers in areas with adverse conditions

The QMF (Floating Wave Attenuator) range consists of robust, resistant and safe pontoons made of reinforced concrete with an expanded polystyrene core. Its geometry, layout, construction method and type of connections make its primary use as a wave attenuator in the protection of bays and ports. .

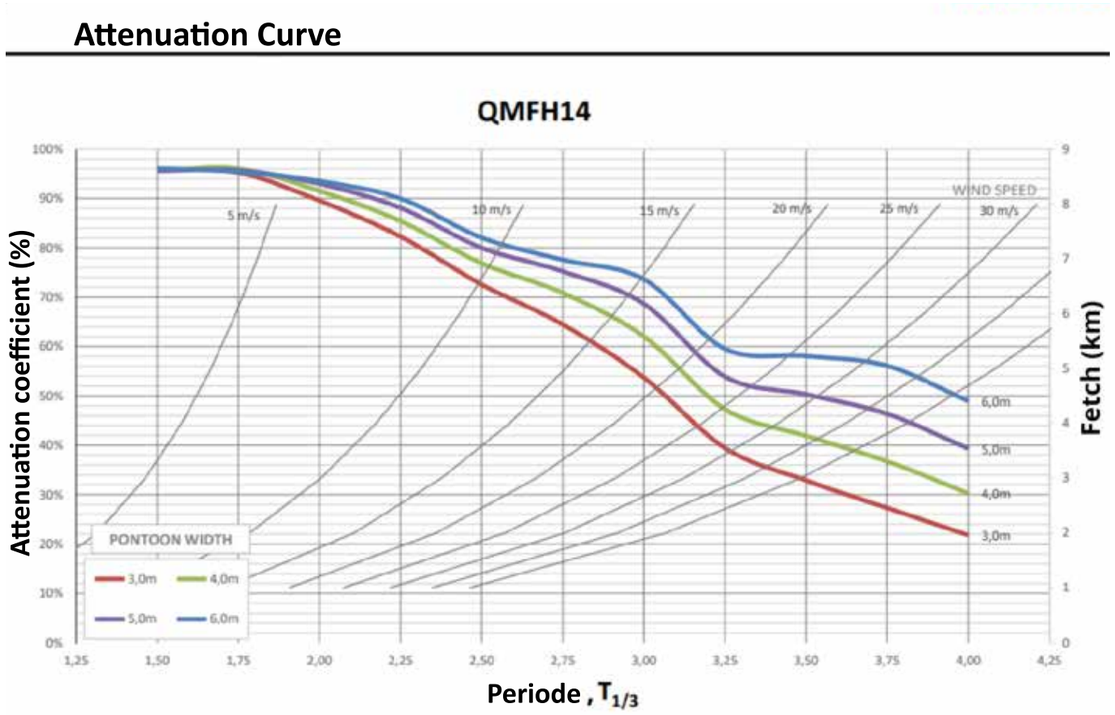
The units are monolithic and modular, built in sections of 15 or 20m. These dimensions reduce the number of moorings and connections required, and have advantages in terms of the overall performance of the system, reducing maintenance costs. The width can range from 3, 4 or 5 to 6m with a height range between 1.4m and 1.8m.



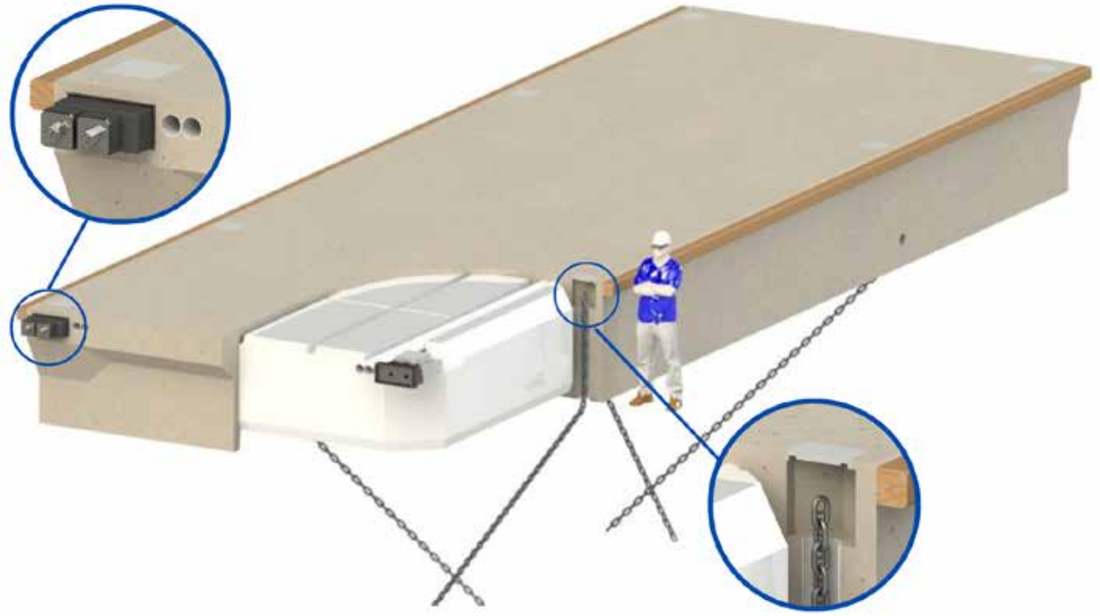
REINFORCED CONCRETE
QMF H14

H14	3015	3020	4015	4020	5015	5020	6015	6020
Length (m)	15,0	20,0	15,0	20,0	15,0	20,0	15,0	20,0
Net width (m)	3,0	3,0	4,0	4,0	5,0	5,0	6,0	6,0
Height (m)	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
Weight (Ton)	30,0	37,0	35,0	44,0	44,0	55,0	50,0	62,0
Live load (kN/m²)	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0
Minimum freeboard (mm)	400	400	400	400	400	400	400	400
Medium freeboard (mm)	600	600	600	600	600	600	600	600
Maximum freeboard (mm)	800	800	800	800	800	800	800	800
Resistance connections (kN)	4x672	4x672	4x672	4x672	4x672	4x672	4x672	4x672

Attenuation Curve



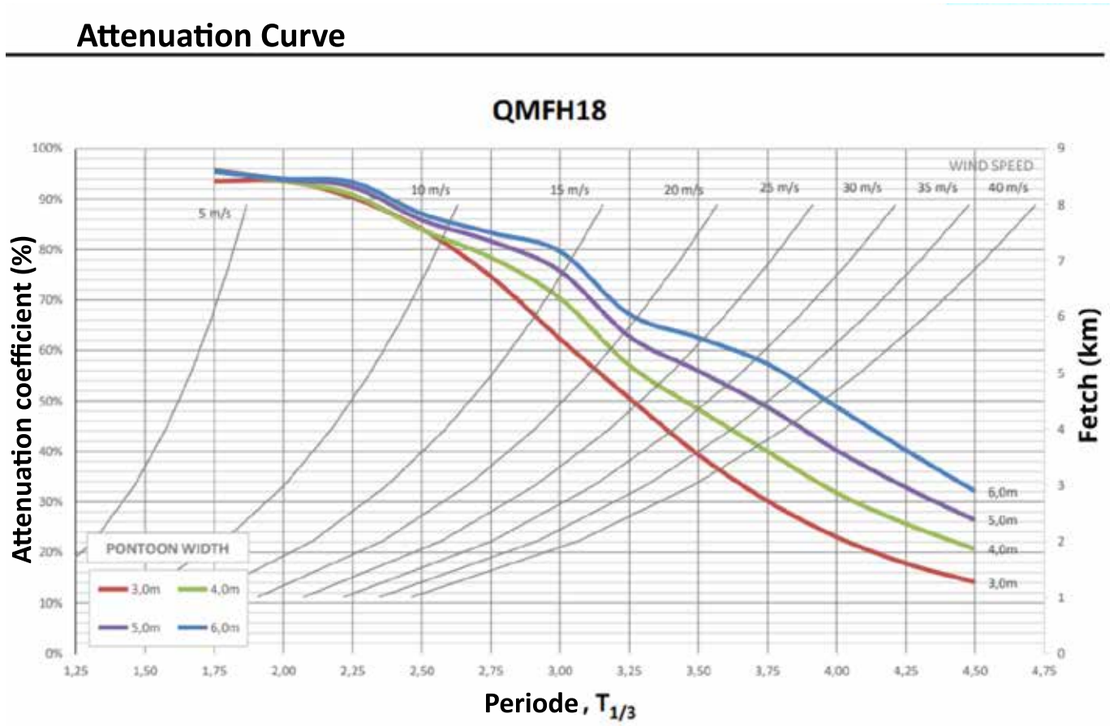
REINFORCED CONCRETE
QMF H14



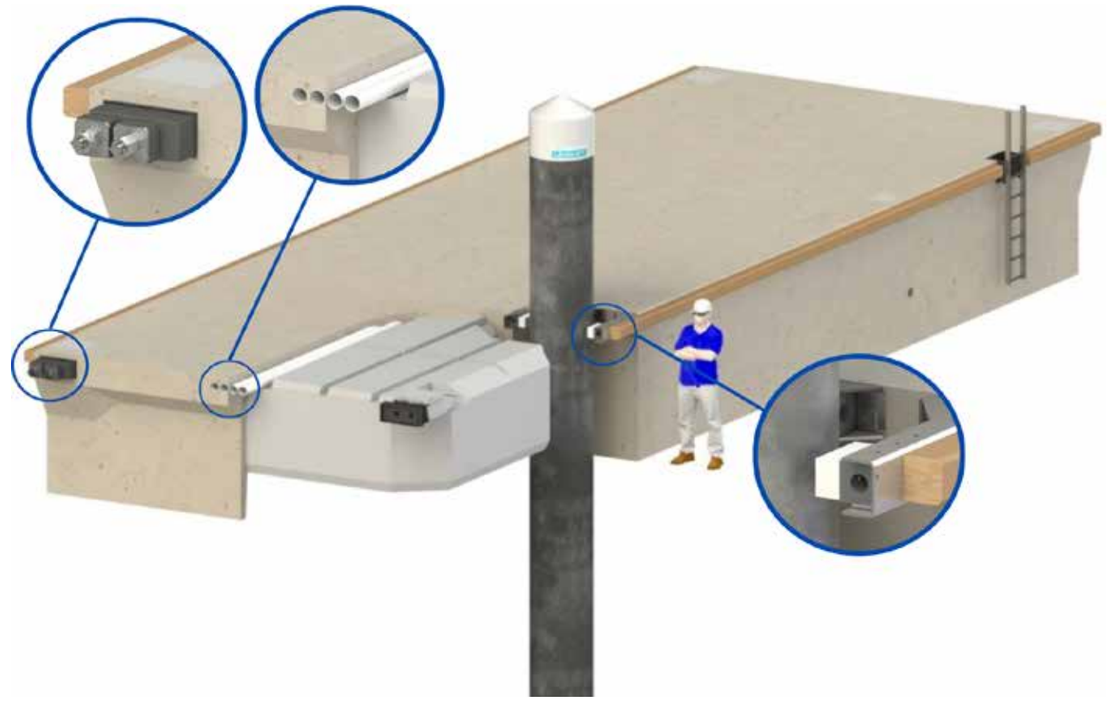
REINFORCED CONCRETE
QMF H18

H18	3015	3020	4015	4020	5015	5020	6015	6020
Length (m)	15,0	20,0	15,0	20,0	15,0	20,0	15,0	20,0
Net width (m)	3,0	3,0	4,0	4,0	5,0	5,0	6,0	6,0
Height (m)	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8
Weight (Ton)	35,0	59,0	41,0	51,0	51,0	64,0	57,0	71,0
Live load (kN/m²)	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0
Minimum freeboard (mm)	400	400	400	400	400	400	400	400
Medium freeboard (mm)	600	600	600	600	600	600	600	600
Maximum freeboard (mm)	1100	1100	1100	1100	1100	1100	1100	1200
Resistance connections (kN)	4x1218	4x1218	4x1218	4x1218	4x1218	4x1218	4x1218	4x1218

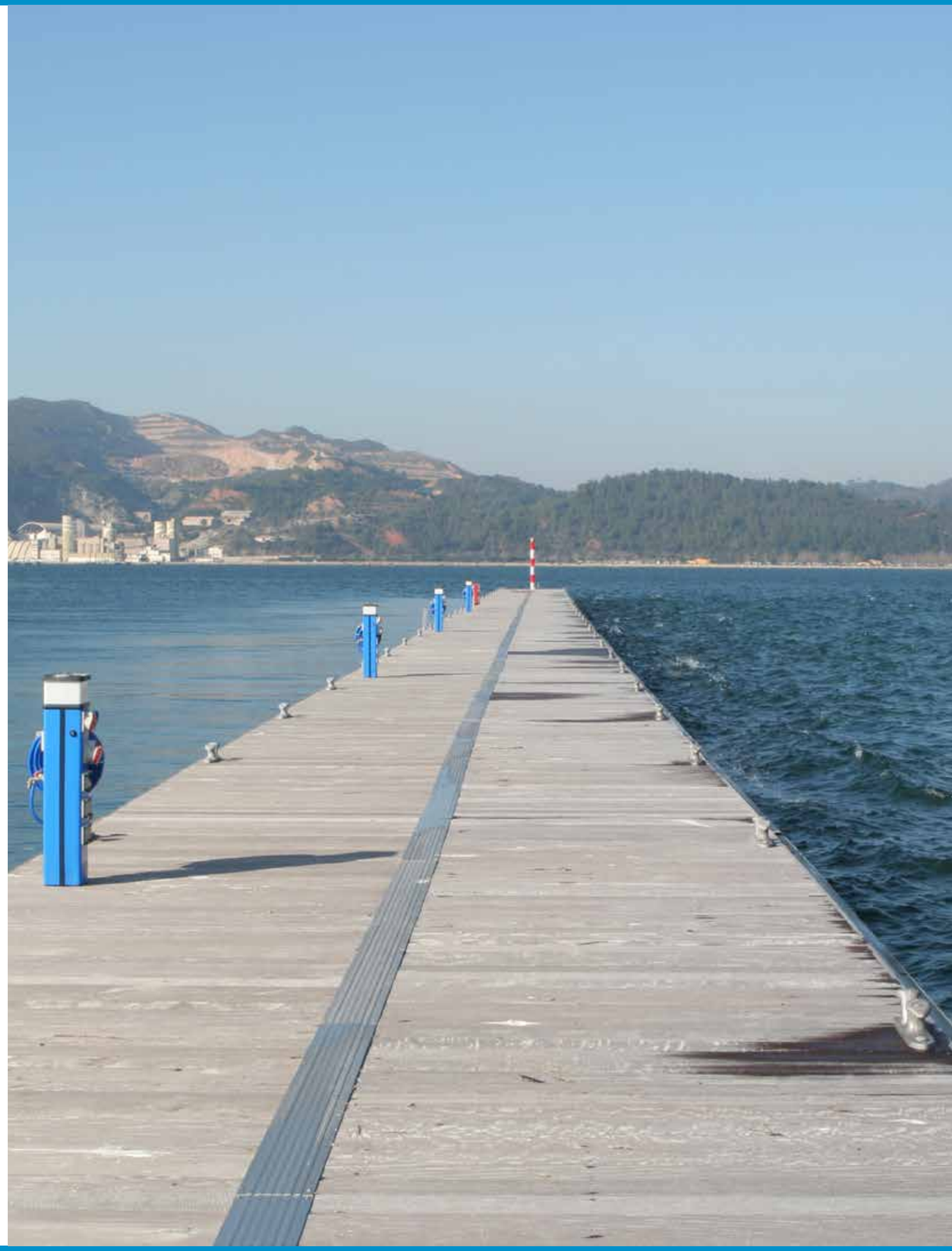
Attenuation Curve



REINFORCED CONCRETE
QMF H18



REINFORCED CONCRETE
QMF



CONCRETE PONTOONS

REINFORCED CONCRETE
PFC

GENERAL FEATURES

Structure	Marine concrete with 45N/mm² density, watertight, reinforced with galvanized steel mesh
Core	Expanded polystyrene with a density of 15kg/m³ coated
Fenders	Nordic pine impregnated
Fasteners and fittings	Semi-flexible; bolts, washers and nuts in galvanized steel; blocks in marine elastomer
Flexibility	Modular construction with variable sizes
Mooring systems	Chains, elastic moorings, piles, metal perfis or radius arms
Services	HDPE conduits on both sides
Live load	Greater than 4kN/m²
Accessories and options	Decks in Nordic pine, exotic wood or composite; Aluminum or cast iron cleats and bollard; Marine elastomer fenders; Concrete pigmentation.

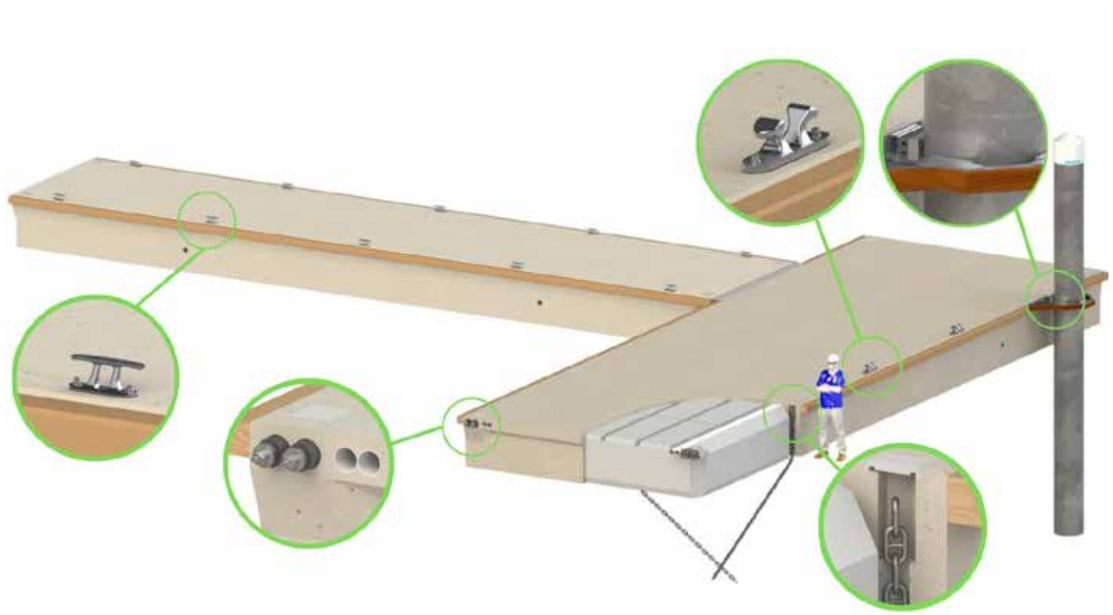
APPLICATIONS

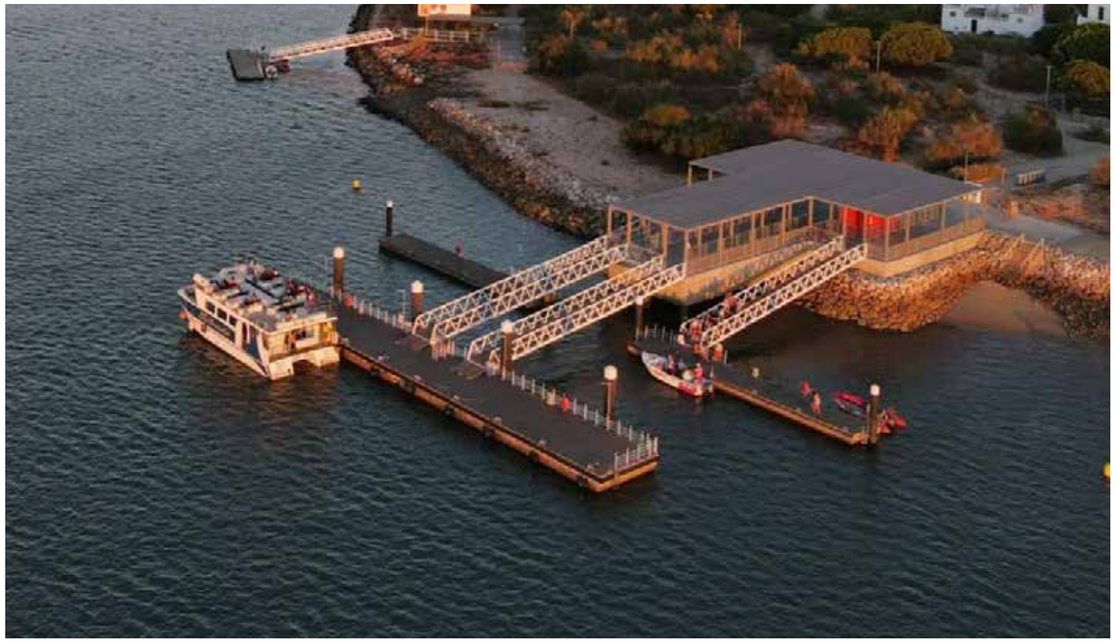
- Berthing and mooring of large vessels
- Landings for fishing vessels and heavy boats
- Maritime-tourist docks
- Bridge piers in semi-sheltered areas

Lindley manufactures a comprehensive range of continuous floating pontoons in steel-reinforced marine concrete.

These elements represent the latest technology in concrete pontoon construction, and are designed for mooring heavy and large vessels; they are very robust and stable, with a high overload capacity, requiring little maintenance.

The standard design is manufactured with inside conduits for the passage of electrical cables and pipes for electricity and water services.

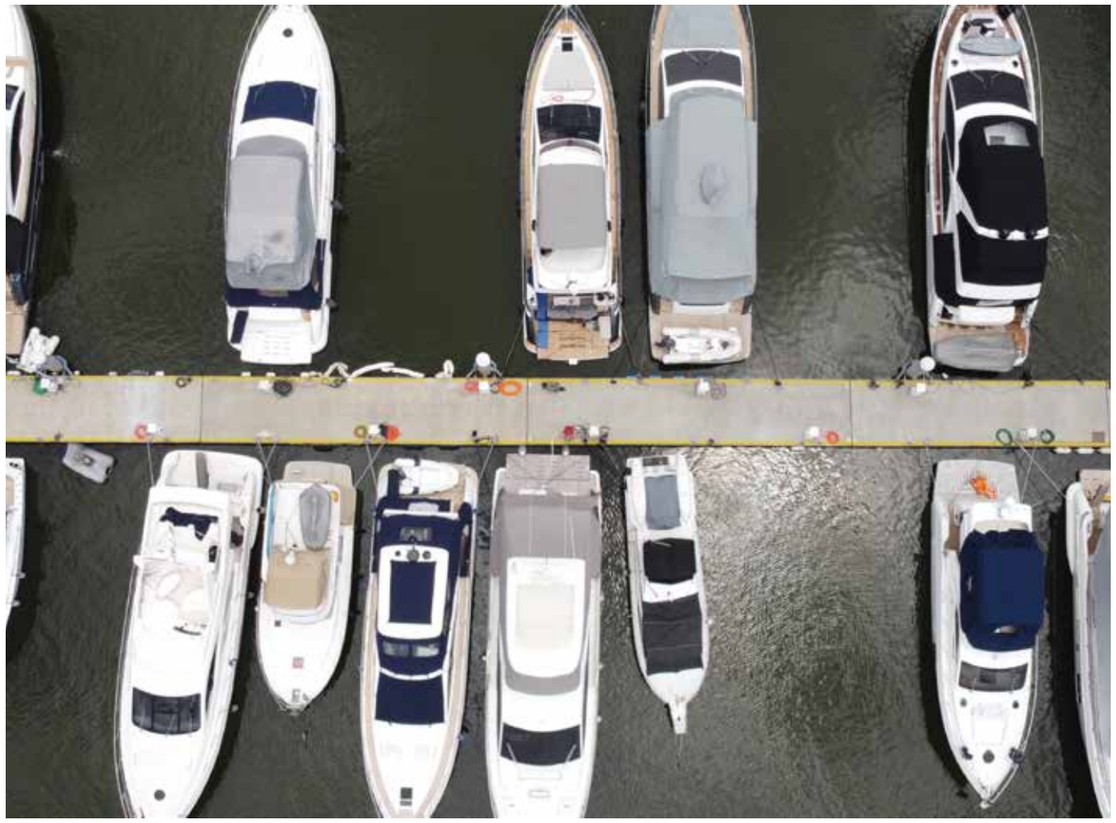




REINFORCED CONCRETE

PFC

H10	2412	2415	3012	3015	3020	4012	4015	4020	5012	5015	5020
Length (m)	12,0	15,0	12,0	15,0	20,0	12,0	15,0	20,0	12,0	15,0	20,0
Net width (m)	2,4	2,4	3,0	3,0	3,0	4,0	4,0	4,0	5,0	5,0	5,0
Height (m)	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Weight (Ton)	11,6	14,6	15,5	18,7	25,4	19,3	24,3	30,2	21,2	26,7	36,0
Live load (kN/m²)	4,6	4,6	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0
Minimum freeboard (mm)	400	400	400	400	400	400	400	400	400	400	400
Medium freeboard (mm)	600	600	600	600	600	600	600	600	600	600	600
Resistance connections (kN)	4x672	4x672	4x672	4x672	4x672	4x672	4x672	4x672	4x672	4x672	4x672



STEEL PONTOONS

GALVANIZED STEEL

SAGRES, SAGRES+

GENERAL FEATURES

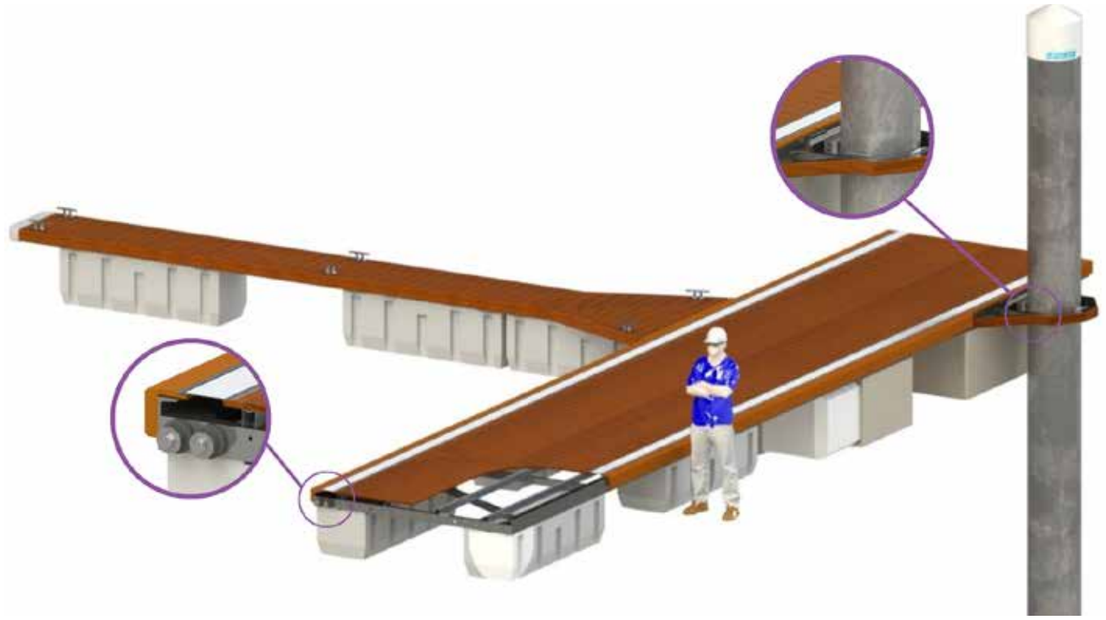
Structure and deck	Structure in hot-dip galvanized steel
Fenders	Exotic rot-resistant or composite wood
Flexibility	Adjustment along the pontoon dock that allows the fixing of other walkways, fingers, and accessories
Mooring systems	Piles, metal profiles, radius arms, chains, or elastic moorings
Services	Easy assembly and maintenance of the electricity and water piping system
Live load	1.5kN/m², on the surface between evenly distributed lines
Accessories and options	Epoxy paint over galvanization; Ducts equipped with PVC fender profiles or guttering; Marine elastomer fenders; Overloads exceeding 2.5kN/m² or 4kN/m² with additional flotation.

APPLICATIONS

- Semi-sheltered areas in protected bays
- Mooring pontoons in marinas, harbors and fishing docks
- Private and public piers
- Anchorages

The Sagres and Sagres+ systems consist of floating pontoons with hot dip galvanized steel structure, composed of modular units and suitable for adverse weather conditions; optionally, and depending on the specific features of each application, the structures can be painted after galvanization. The walkways are supplied with ducts on both sides, covered by anodized aluminum coverings.

These systems are recommended for semi-sheltered areas in protected bays and were developed from experience acquired over more than 35 years in the sector. They have proven to be stable, resistant and durable.



TECHNICAL SPECIFICATIONS

Structure and deck	Welded mild steel, hot-dip galvanized (BS.EN.150.1461:1999) Exotic rot-resistant wood, striated slats 145x21mm, with stainless steel screws; optional composite and pultruded grating
Live load	Pontoons: Standard 1.5kN/m² with 2.5kN/m² option; Fingers: standard overload of 1.0kN/m².
Freeboard	500 mm without load
Draft	400 mm without load
Project parameters	Waves with a maximum significant height of 400mm (Sagres) and 500mm (Sagres+). Wind with peak speed of 47m/s and average speed of 25m/s. Maximum lateral load of 1.25kN/m (Sagres) and 1.50kN/m (Sagres+). Maximum distance between piles: 25m (Sagres) and 30m (Sagres+)
Hulls	Expanded polystyrene coated with stainless steel reinforced concrete or rotomolded polyethylene filled with expanded polystyrene
Fasteners and fittings	Flexible with elastomer blocks crossed by M24 hexagonal bolts, nuts, and section brakes; with two or four bolts per connection between walkways; galvanized or stainless steel

GALVANIZED REINFORCED STEEL

SAGRES HD

GENERAL FEATURES

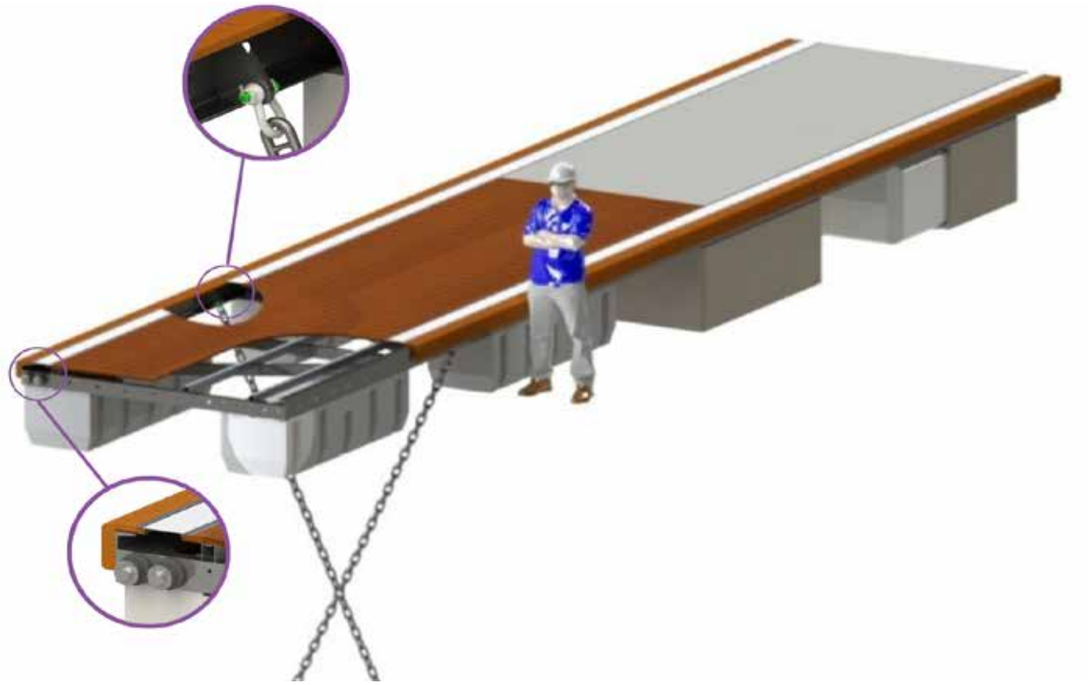
Structure	Reinforced structure in hot-dip galvanized steel
Decks and fenders	Exotic rot-resistant or composite wood
Flexibility	Universal adjustment along the pontoon dock that allows the fixing of other walkways, fingers, and accessories
Mooring systems	Piles, metal profiles, radius arms, chains, or elastic moorings
Services	Easy assembly and maintenance of the electricity and water piping systems
Live load	2.5kN/m², evenly distributed on the surface between ducts
Accessories and options	Epoxy paint over galvanization; Ducts equipped with PVC fender profiles or guttering; Prepared for the installation of mooring bollards with a load capacity of up to 10 tons; Marine elastomer fenders; Higher overloads by additional flotation.

APPLICATIONS

- Semi-exposed areas in bays and estuaries
- Quays for tourist and fishing boats
- Fueling docks
- Anchorages for heavy vessels
- Bridge piers

The Sagres HD system consists of floating pontoons with a reinforced structure with high resistance and overload capacity, available in various sizes and freeboards, with finishings in line with the PFC, Sagres and Faro ranges. The pontoons are supplied with piping on both sides, covered by anodized aluminum covers.

Sagres HD is a robust and stable modular system with a reinforced structure, with excellent behavior to alternating loads, which makes it ideal and resistant for places where loads are a critical factor due to wind and wave effect.



TECHNICAL SPECIFICATIONS

Structure	Mild steel frame galvanized by immersion
Deck	Maintenance-free, rot-resistant exotic wood planks, with minimum density of 1,100kg/m², standard dimensions 145x21mm, planed and grooved, fixed with stainless steel screws; optional dimensions 110x21mm and 145x28mm; optional composite material and railings
Live load	Pontoons: standard 2.5kN/m², optional 4.0kN/m²
Freeboard	550 mm without load
Draft	400 mm without load
Project parameters	Waves with a maximum significant height of 600mm Wind with peak speed of 47m/s and average speed of 25m/s Maximum side load of 2.5kN/m, Maximum distance between piles: 35m
Hulls	Expanded polystyrene coated with stainless steel reinforced concrete or rotomolded polyethylene filled with expanded polystyrene
Fasteners and fittings	Flexible with elastomer blocks crossed by M24 hexagonal bolts, nuts, and section brakes; with two or four bolts per connection between walkways; galvanized or stainless steel

ALUMINIUM PONTOONS

MARINE ALUMINIUM

FARO, FARO+

GENERAL FEATURES

Structure	Structure in marine aluminum alloy. High corrosion resistance and attractive finish
Deck and fenders	Exotic rot-resistant wood
Flexibility	Universal adjustment along the pontoon dock that allows the fixing of other walkways, fingers and accessories
Mooring systems	Piles, metal profiles, radius arms, chains, or elastic cords
Services	Easy assembly and maintenance of the electricity and water services network
Live load	Evenly distributed 1.5kN/m² on the surface between piping
Accessories and options	Marine elastomer fenders. In-built railings. Higher overloads by additional flotation.

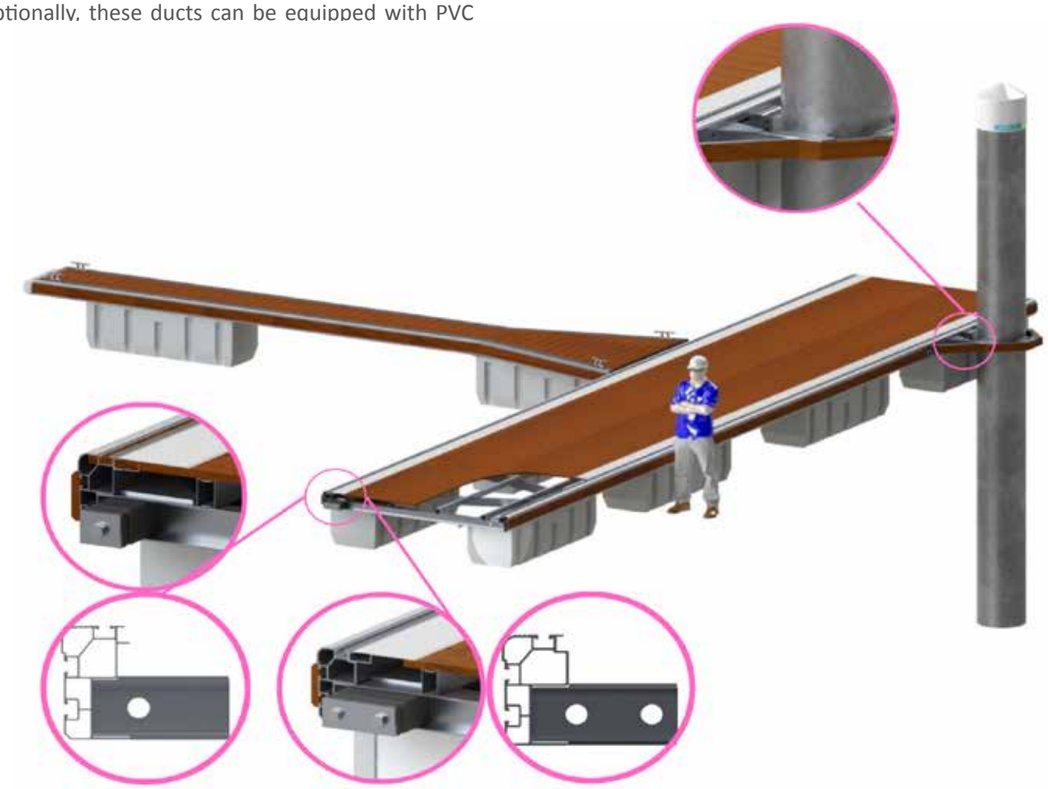
APPLICATIONS

- Sheltered sites in bays and estuaries
- Landings for pleasure crafts and yachts
- Private docks
- Areas with aggressive environmental conditions

The Faro and Faro+ systems consist of floating pontoons with a special aluminum alloy profile structure composed of modular units.

The walkways are supplied with ducts on both sides, covered by anodized aluminum covers; optionally, these ducts can be equipped with PVC fender profiles or guttering.

These systems are recommended for installations in sheltered places in bays and estuaries that are subject to lower stress. It is an easy-to-install, stable, flexible, and corrosion-resistant system.



TECHNICAL SPECIFICATIONS

Structures	Welded and bracketed in A6082-T6 and A6005-T5 aluminum alloy. The Faro+ range has a reinforced structure and a more robust profile. Structure weight with 2,5m width: 34,4kg/m (Faro) and 45,6 kg/m (Faro+)
Deck	Maintenance-free, rot-resistant, exotic wood planks with minimum density of 1,100kg/m², non-slip, standard dimensions 145x21mm, planed and grooved, fixed with stainless steel screws; optional dimensions 110x21mm and 145x28mm; optional composite material and railings
Live load	Pontoons: standard overload of 1.5kN/m², between ducts. Fingers: standard overload of 1.0kN/m².
Freeboard	500 mm without load
Draft	400 mm without load
Project parameters	Ripple with maximum significant height of 250mm (Faro) and 350mm (Faro+). Wind with peak speed of 40m/s and average speed of 20m/s, maximum lateral load of 0.25kN/m (Faro) and 0.50kN/m (Faro+). Maximum load on wedges of 25kN (Faro) and 50kN (Faro+). Maximum distance between piles: 20m (Faro) and 24m (Faro+)
Hulls	Pontoons: rotomolded polyethylene filled with expanded polystyrene; maintenance-free. Fingers: rotomolded polyethylene filled with expanded polystyrene
Fasteners and fittings	Flexible and silent with elastomer blocks crossed by M24 stainless steel hex bolts, with nuts and brakes.

HEAVY-DUTY MARINE ALUMINIUM

FARO HD

The Faro HD system consists of floating equipment with a reinforced structure in marine aluminum alloy, and is used in berthing and mooring installations of vessels in semi-enclosed bays in places with adverse environmental conditions where corrosion is a critical factor.

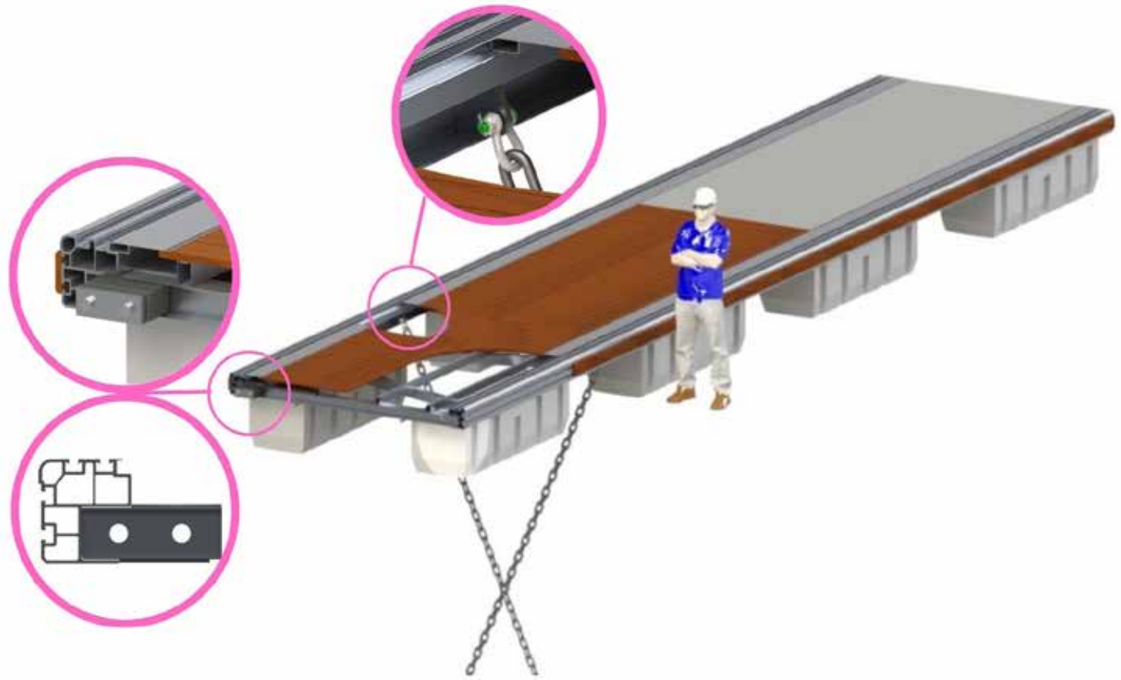
The walkway is supplied with ducts on both sides, covered by anodized aluminum covers; optionally, these ducts can be equipped with PVC fender profiles or guttering.
It is characterized by its durability, corrosion resistance, and robustness.

GENERAL FEATURES

Structure	Frame with reinforced extension in marine aluminum alloy High corrosion resistance and attractive finish
Fenders	Rot-resistant exotic wood in composite
Flexibility	Universal adjustment along the pontoon dock that allows the fixing of other walkways, fingers, and accessories
Mooring systems	Piles, metal profiles, radius arms, chains, or elastic moorings
Services	Easy assembly and maintenance of the electricity and water piping system
Live load	Evenly distributed 2.0kN/m² on the surface between ducts
Accesories and options	In-built railing; Marine elastomer fenders; Higher overloads by additional flotation.

APPLICATIONS

- Berthing of medium-sized vessels in sheltered areas
- Maritime-tourist quays
- Fixed structures and bridge piers



TECHNICAL SPECIFICATIONS

Deck	Maintenance-free, rot-resistant exotic wood planks with minimum density of 1,100kg/m², non-slip, standard dimensions 145x21mm, planed and grooved, fixed with stainless steel screws; optional dimensions 110x21mm and 145x28mm; optional composite material and railings
Structure	Welded and bracketed in aluminum alloy type A6082-T6 and A6005-T5. Structure weight with 2.5m width: 65.3kg/m
Live load	Pontoons: standard overload of 2.0kN/m², optional 2.5kN/m², between ducts. Fingers: standard overload of 1.0kN/m².
Freeboard	500mm without load
Draft	400mm without load
Project parameters	Waves with a maximum significant height of 450mm Wind with peak speed 42m/s and average speed 22m/s Maximum side load of 0.75kN/m Maximum load on 75kN wedges Maximum distance between piles: 28m
Hulls	Pontoons: rotomolded polyethylene filled with expanded polystyrene; maintenance-free Fingers: rotomolded polyethylene filled with expanded polystyrene
Fasteners and fittings	Flexible and silent with elastomer blocks crossed by M24 stainless steel hex bolts, with nuts and section brakes

TIMBER PONTOONS

REINFORCED NORDIC PINE

DOC-KIT

GENERAL FEATURES

Structure	Structure in impregnated Nordic pine, with galvanized or stainless steel reinforcements
Hulls	Rotomolded polyethylene filled with expanded polystyrene
Fenders	Nordic pine
Flexibility	Easy transport, assembly and installation
Mooring systems	Attachment by sinkers and chains, or elastic moorings
Live load	Evenly distributed over the deck 1kN/m²
Accessories and options	Stainless steel reinforcements; 4 x 2.2m pontoon; Pile or wall-guide mooring systems; Lightweight fingers, used in conjunction with floating walkways for individual moorings; Marine elastomer fenders; Low step for rowing and canoeing; Lowered floats for reduced freeboard.

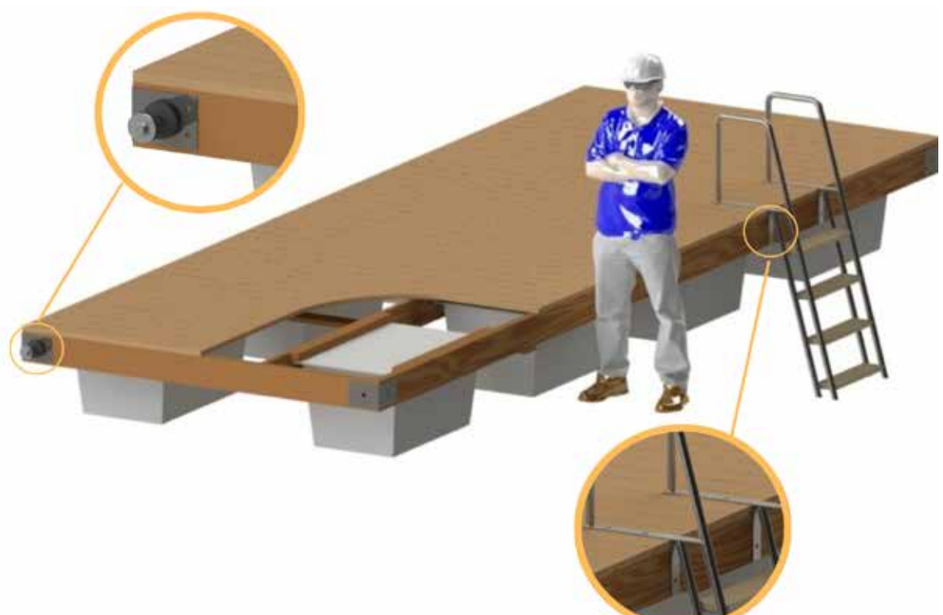
APPLICATIONS

- Lightweight private docks
- For rowing and canoeing
- Pier for lightweight sailboats
- Berthing piers on river beaches, rivers, lakes and dams

The Doc-Kit system consists of floating walkways with a Nordic pine wood structure entirely designed and manufactured by Lindley.

The standard equipment is supplied in a kit that can be easily transported and installed and is intended for sheltered places with weak currents and no wind-generated swell.

Being entirely made of treated wood, it is an ecological, economical, lightweight system that integrates perfectly with the surrounding environment.



TECHNICAL SPECIFICATIONS

Structure	Nordic pine impregnated with galvanized steel reinforcements
Deck	Nordic pine wood planks 25mm thick, planed and grooved, fixed with stainless steel screws
Live load	100kg/m² for a load evenly distributed over the deck, with 25% float reserve
Freeboard	450 mm without load
Draft	150mm without load
Project parameters	Sheltered locations with swell less than 150mm and currents less than 1 knot
Hulls	Rotomolded polyethylene filled with expanded polystyrene
Fasteners and fittings	Flexible with elastomer blocks and bolts in galvanized steel or stainless steel

LAYOUT OPTIONS

A	T-shaped jetty with access walkaway
B	I-shaped jetty with access walkaway
C	Combination of walkways; with fingers for various moorings
D	Isolated system

FLOATING PLATFORMS

ROTOMOLDED POLYETHYLENE

HYDROFLOAT

GENERAL FEATURES

Structure	Base in rotomolded polyethylene with non-slipping floor
Dimensions	Length: 3,5 m Width: 1,5 m Height: 38 cm
Flexibility	Easy transport and assembly
Maintenance	Reduced
Load capacity	Up to 700 kg
Weight	105 kg
Color	Available in blue and brown

APPLICATIONS

- Parking of jet skis and water scooters
- Parking of lightweight semi-rigid watercraft

The Hydrofloat system consists of floating equipment with a high-density polyethylene structure and a non-slip floor, designed to allow for the safe parking of jet-skis and water scooters in marinas, docks, and reservoirs.

This equipment has low maintenance and flexible mooring perpendicular or parallel to the dock with no parts fixed to its structure. With the use of this platform, you benefit from quick and convenient access to the water; the platform is equipped with an impact absorption system providing a soft support for the keel and facilitating the approach to parking. It is an easy to install, lightweight, durable and versatile system.

INJECTED POLYETHYLENE

FLEXIFLOAT

GENERAL FEATURES

Structure	Base in injected polyethylene with non-slipping floor
Dimensions	Mini elements: 50x50x25cm Single elements: 50x50x40cm Double elements: 100x50x40cm
Flexibility	Easy transport and assembly
Maintenance	Reduced
Load capacity	Up to 75 kg/m^2
Weight	Mini elements: 5,2kg Single elements: 6,0kg Double elements: 11,5kg
Color	Available in blue, light gray and black

APPLICATIONS

- Natural pools, water parks
- Parking of lightweight semi-rigid boats
- Temporary installations
- Aquaculture

The Flexifloat system consists of floating modular equipment with a high-density injected polyethylene structure, and is used in temporary applications and in areas with restricted access; despite being lightweight, it was designed to withstand adverse weather conditions.

This equipment is characterized by low maintenance requirements and a long service life. The mini elements have a low freeboard and are suitable for rowing and canoeing applications.

This equipment is ISO9001 certified and approved by environmental protection agencies.

RAMPS AND GATES

STEEL, ALUMINIUM AND NORDIC PINE

ACCESS RAMPS

GENERAL FEATURES

Structure	Truss structure with options in steel, aluminum or Nordic pine, according to customer needs and application
Deck	Exotic wood provided with non-slip slats; optionally in composite materials
Flexibility	Adaptable compatibility for each application
Live load, side loading	Evenly distributed over deck of 2.5kN/m²; horizontal load of 1kN/m applied on the side deck
Accessories and options	Depending on the type of use, access ramps can be designed for special overloads, namely 4kN/m² for unrestricted access and 5kN/m² for unrestricted public use. Design and manufacturing capability to meet special requirements.

APPLICATIONS

- Access to floating docks in marinas, harbors and fishing docks
- Pedestrian access

Access ramps are one of the key pieces of a nautical infrastructure, and can be used for pedestrian access or for access to the floating facility.

Access ramps can have a steel, aluminum, or Nordic pine structure, in line with the specifications of our Sagres, Faro, and Dockit floating equipment range, respectively.

Lindley has developed optimized and proven calculation methods and manufacturing processes in ramps produced over the past years. Structural performance is optimized in terms of strength and deformation for the load conditions defined for each project. Our team of engineers studies the behavior of the structures according to the defined specifications.

METALLIZED OR GALVANIZED STEEL

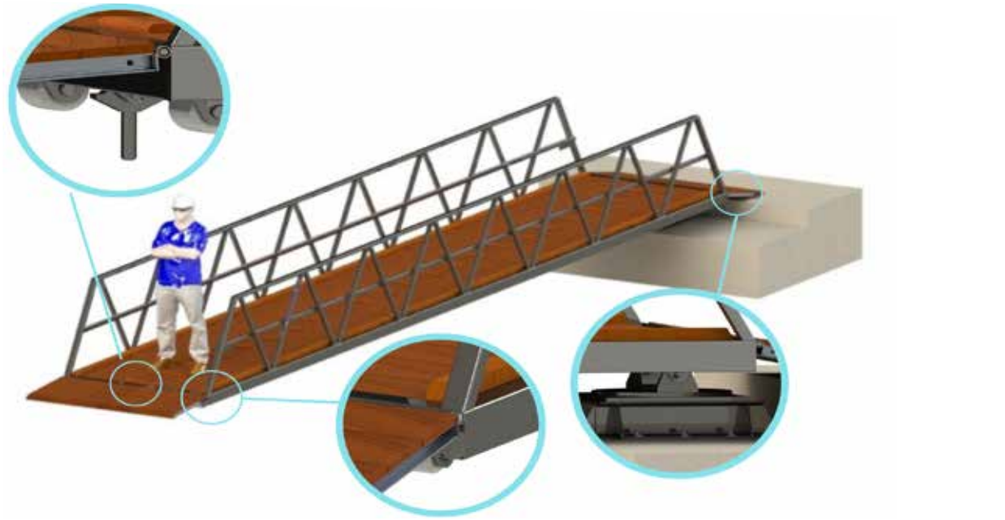
ALPS RAMPS

TECHNICAL SPECIFICATIONS

Structure	Truss structure with pickled and metallized or hot-dip galvanized painted steel profiles
Dimensions	Preferably manufactured with standard dimensions in lengths from 8 to 20m, and working widths of 1.0, 1.5, 2.0 and 2.5m
Live load	Overload of 2,5 kN/m², 4 kN/m² or 5 kN/m²
Design and manufacturing	Design and manufacturing capacity to attend to special requirements, both in terms of dimensions and overloads of use

OPTIONS

Fasteners and fittings	Both the upper and lower ends of the dock ramp can be provided with uniaxial, biaxial, and roller pivots, which allow for angular movements in the vertical and horizontal planes
Hull support bridge	May have their own flotation at the lower end
Lighting	Can be supplied with its own lighting



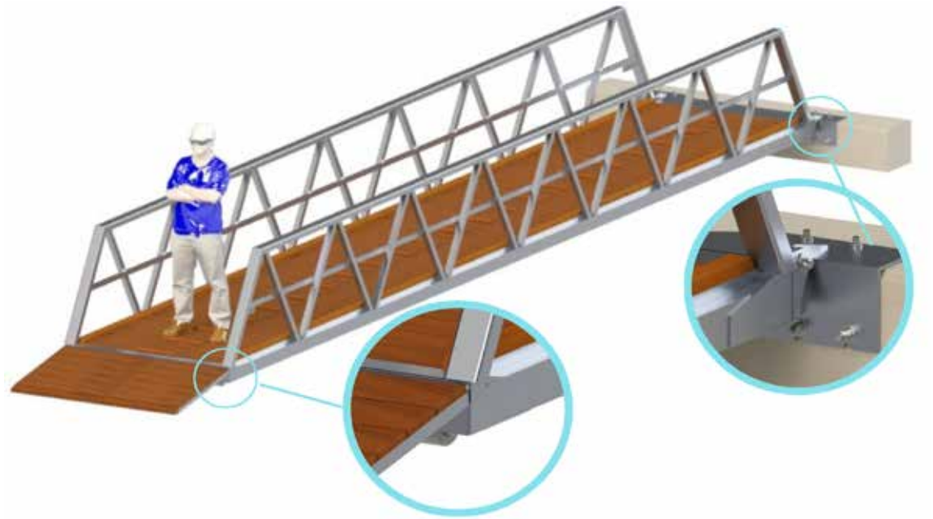
MARINE ALUMINIUM
ALPF RAMPS

TECHNICAL SPECIFICATIONS

Structure	Truss structure with marine aluminum profiles
Dimensions	Preferably manufactured with standard dimensions in lengths from 8 to 20m, and working widths of 1.0, 1.5, 2.0 and 2.5m
Live load	Overload of 2,5 kN/m², 4 kN/m² or 5 kN/m²

OPTIONS

Fasteners and fittings	Both the upper and lower ends of the dock ramp can be provided with uniaxial, biaxial, and roller pivots, which allow for angular movements in the vertical and horizontal planes
Hull support bridge	May have their own flotation at the lower end
Illumination	Can be supplied with its own lighting



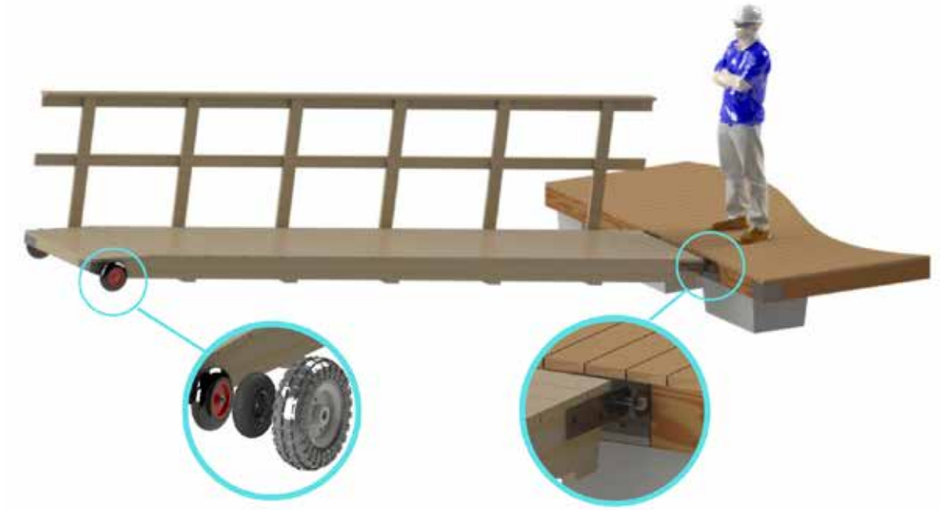
NORDIC PINE
ALPD RAMPS

TECHNICAL SPECIFICATIONS

Structure	Steel-reinforced Nordic pine wood
Dimensions	Preferably manufactured with standard dimensions in lengths from 4 to 6m, and working widths of 1.1m
Live load	Standardized overload evenly distributed over the deck of 1kN/m²

OPTIONS

Fasteners and fittings	Both the upper and lower ends of the dock ramp can be provided with uniaxial, biaxial, and roller pivots, which allow for angular movements in the vertical and horizontal planes
Hull support bridge	May have their own flotation at the lower end
Lighting	Can be supplied with its own lighting



ENTRANCE GATE

ALAC

GENERAL FEATURES

Structure	Reinforced with anti-corrosion treatment and finish to match the ramps
Composition	Gate and side rails with polycarbonate panels
Flexibility	Lindley advises its customers and recommends the appropriate solution for each application

OPTIONS

Automation	It can be automated, through an electric lever and latch; in this case, access control is done through a magnetic card reader, keyboard or spring lock
Finishing	With galvanized steel mesh panels, tempered glass or perforated sheet metal as required by the customer
Accessories	Own lighting, CCTV system, single or double sliding doors

APPLICATIONS

- Access control to marinas, fishing docks and private docks

ACCESSORIES AND SERVICES

ACCESSORIES AND SERVICES

SERVICE PEDESTALS

GENERAL FEATURES

Dimensions	Base, height and width variable depending on the application; heights between 1000mm and 1500mm
Finishing	External finish in anti-corrosive material (pressed plastic, painted aluminum or stainless steel)
Services	Electricity: combinations of single-phase and/or three-phase electrical outlets from 16A to 250A Water: 1/2” to 1” water tap combinations, including hose in appropriate holder
Protection	Equipped with differential switch and circuit breaker per socket for overload prevention
Color	Diversified range and patterns
Manufacturing	CE certified supplier
Accessories and options	Consumption control through analog or digital meters and readers, associated with credit card systems or operation tokens Integration into global infrastructure management systems

APPLICATIONS

- Fixed structures on land
- Floating pontoons
- Fuel and service docks
- Campgrounds
- Leisure and recreational spaces

ACCESSORIES AND SERVICES

MEGA YACHT PEDESTALS

TECHNICAL SPECIFICATIONS

Structure	Internal chassis in marine aluminum and painted marine aluminum or stainless steel casing
Material	Painted marine aluminum or stainless steel
Power	CEI309 or Marechal sockets between 16A and 600A, single-phase and/or three-phase
Watertightness	IP65

EV PEDESTALS

TECHNICAL SPECIFICATIONS

Structure	Painted galvanized steel Surge protection LED lighting
Manufacturing	ISO9001, CE certified supplier
Optional	It is also available as a high-speed unit with one or two IEC 62196 outputs, providing a single or three-phase load between 3.6kW and 22kW

WALLPOD

TECHNICAL SPECIFICATIONS

Finishing	Available in a variety of colors
Structure	Non-corrosive material (fiber, stainless steel or aluminum)
Capacity	16amp (3.6kW) or 32amp (7.2 kW) This unit also provides a 13-amp IP65 socket

ACCESSORIES AND SERVICES
EMERGENCY PEDESTALS

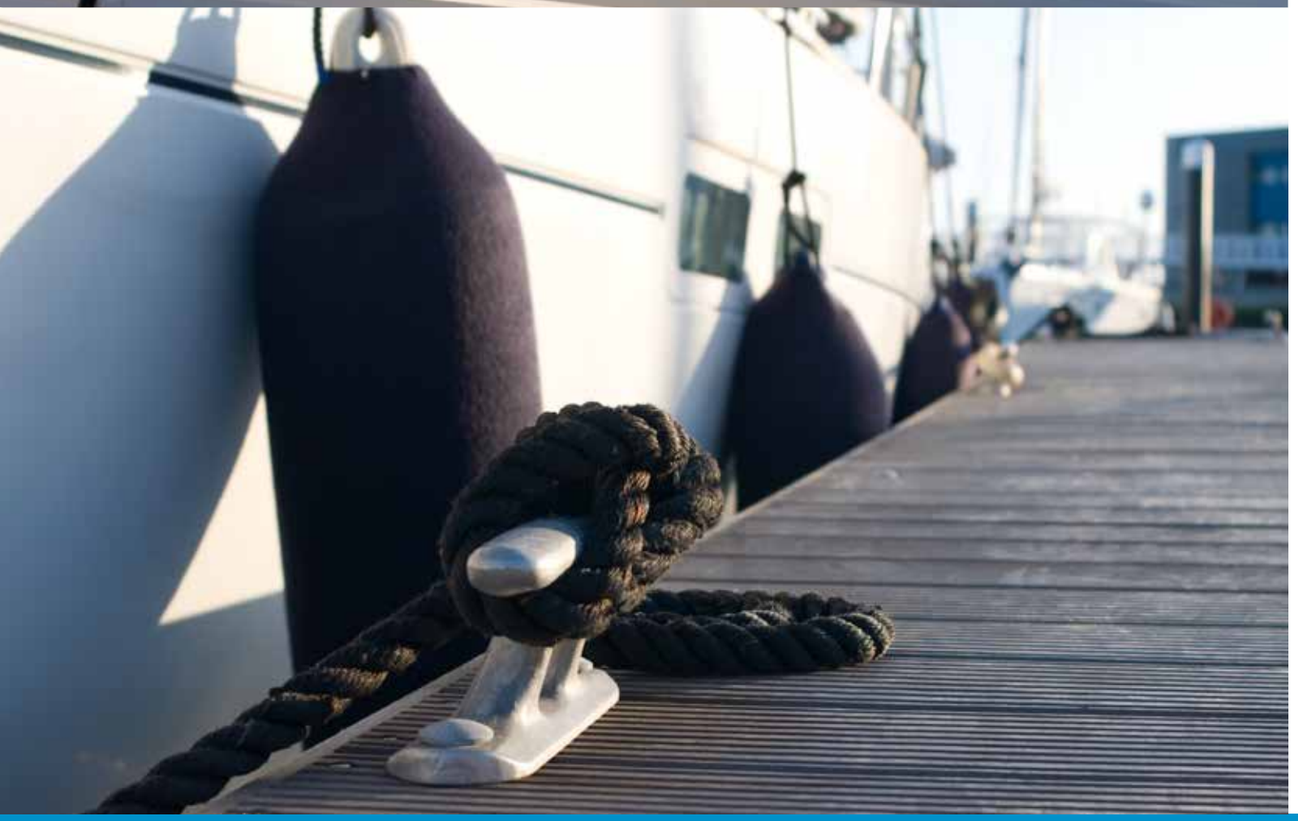
TECHNICAL SPECIFICATIONS

Structure	Classic: Galvanized steel internal chasis and aluminum external chasis Quantum: Anodized extruded aluminium body
Manufacturing	ISO9001, CE certified supplier
Optional	Life buoy ring, chemical powder fire extinguisher and first aid box, emergency lantern and siren

EMERGENCY LADDERS

TECHNICAL SPECIFICATIONS

Dimensions	Available in various sizes and designs
Structure	Non-corrosive material (fiber, stainless steel or aluminum)
Installation	Various types of jetty ladder attachments, all with stainless steel screws



ACCESSORIES AND SERVICES

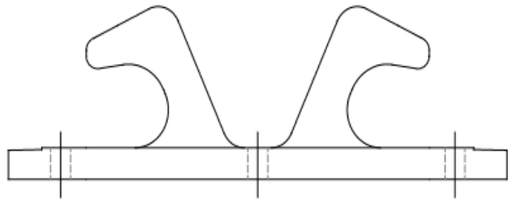
CLEATS AND BOLLARDS

TECHNICAL SPECIFICATIONS

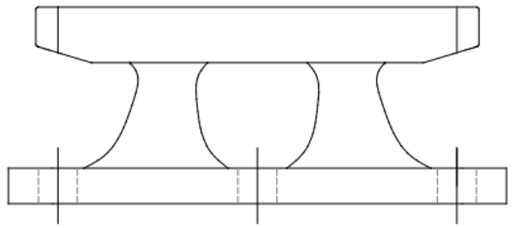
Structure	Cast aluminium
Installation	Fixing by means of stainless steel screwing

3T CLEAT

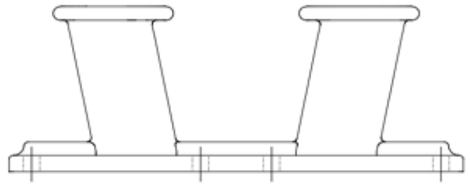
5T BOLLARD



8T CLEAT



10T BOLLARD

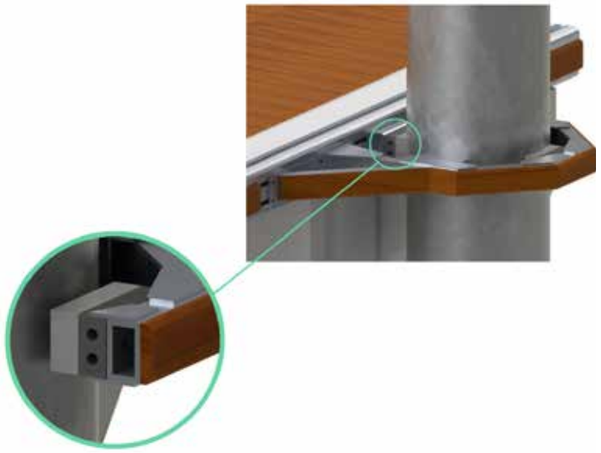


MOORING SYSTEMS

MOORING SYSTEMS

PILE GUIDES

The pile guide system consists of a ring that surrounds the pile and is attached to the walkway, adjusting and guiding it according to tidal variation.



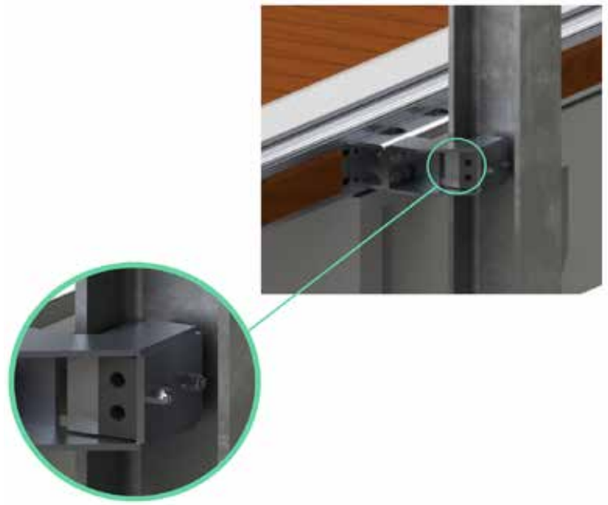
TECHNICAL SPECIFICATIONS

Dimensions	Available in various sizes
Structure	Steel piles of X50 rating or higher, diameters from 340 to 610mm, longitudinal seam and minimum thickness of 10mm

WALL GUIDES

Mooring systems by means of wall guides on HEB galvanized steel beams can be fixed to the jetty by means of chemical fixings (bonded anchors).

The pile guiding clamps are equipped with low friction material and impact absorption systems, as well as an adjustment device to minimize possible gaps.



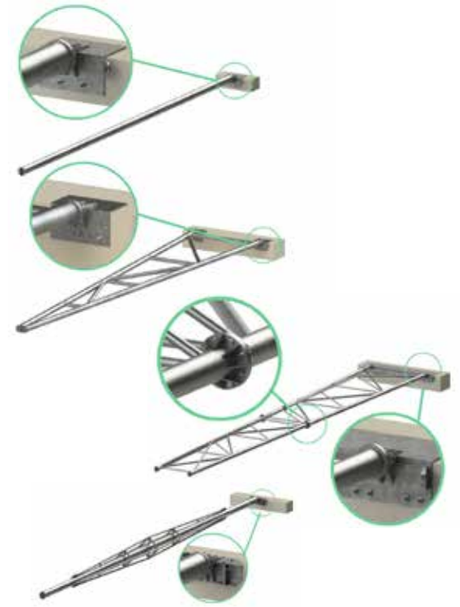
TECHNICAL SPECIFICATIONS

Dimensions	Available in various sizes
Structure	HEB beams (160-220) in steel

MOORING SYSTEMS

RADIUS ARMS

The radius arms can be tubular, 'A' shaped, or trussed, and work under compression and/or tension to keep the walkway positioned relative to the shore. A set of cross-bracing cables ensures the rigidity of the assembly and keeps it parallel to the shore; mooring systems of this type are usually calculated to safely withstand currents with a maximum speed of up to 3m/s (approx. 6 knots).

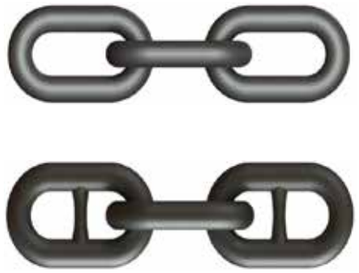


TECHNICAL SPECIFICATIONS

Dimensions	Available in various sizes
Structure	Metallic components in heat-treated steel followed by painting or marine aluminum, with flotation aids

CHAINS AND ELASTIC MOORING SYSTEMS

The mooring system by means of chains or elastic moorings consists of introducing damping into the movement of the pontoon docks.



TECHNICAL SPECIFICATIONS

Dimensions	Available in various sizes
Structure	Open or closed link metal chains, hot-dip galvanized or painted with epoxy coal tar Part with material specifically designed to absorb regular stretching without permanent deformation

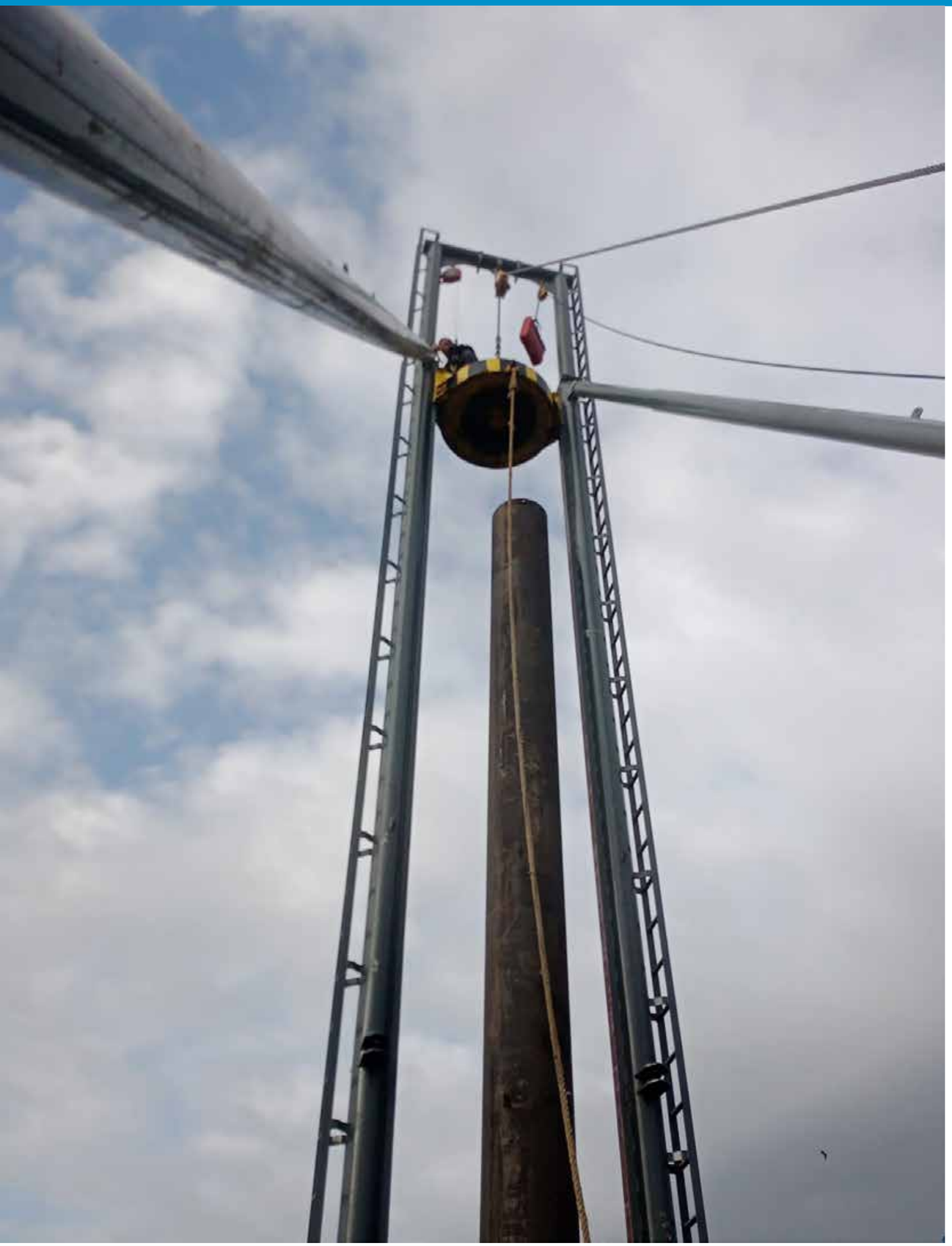
SINKERS AND ANCHORS

The chains or elastic moorings are connected to reinforced concrete sinkers or anchors fixed to the seabed and/or riverbed.

TECHNICAL SPECIFICATIONS

Dimensions	Available in various sizes and weights
Structure	Reinforced concrete sinkers with reinforcement eyebolts Cast iron or steel anchors in various shapes and designs

PILE DRIVING



PILE DRIVING

LINDLEY currently has its own certified means to execute steel piling work in sandy and muddy soils as well as in more demanding terrain such as clay and rock.

By using modular equipment transportable by land, with low mobilization costs, it is possible to carry out this type of work using systems certified by competent authorities.

The operation involves three steps:

- Assembling the floating pontoon dock
- Preparation of the metal piles
- Pile driving

GENERAL FEATURES

METALLIC PILLING RIG

Floating pontoon	12x7,5m
Winch	8.000 Kg
Hydraulic system	
Maneuvering winch	2.000kg
Maximum lift capacity	4.500kg
Speed at maximum lift capacity	20m por min.
Hammer for driving piles into sand and mud	2.000kg/3.200kg/4.500kg
Bore pile drilling equipment	1.500kg
Pile driving limit	Pre-defined depth
Maximum pile driving bore	70 diameters

APPLICATIONS

- Mooring walkways and pontoons on sandy, muddy, clay, and rocky soils
- Support of fixed structures on the water surface

OPERATION

Floating Platform Installation

The pile-driving platform consists of modules that are transported to the site by truck. Once on site, the modules are pre-assembled, placed in the water using a telescopic crane; once the pontoon dock is afloat, connectors are fitted, and the pile-driving tower and hydraulic equipment are assembled.

Metal Pipes Preparation

The metal pipes for the piles are unloaded onto the embankment next to the water, so that they can be gradually transferred to the floating platform as the pile driving work is carried out.

Pile Driving

Pile driving is done according to a work plan defined with the customer, proceeding to preliminary positioning with the help of topographic studies and tower guidance to ensure position and verticality. Pile driving in sandy, muddy, and fine-clay soils is done with a free-fall hammer; in cases where it is necessary to add pipes, the sections will be welded top to top; at the end of the pile driving process, the top of the pile is cut at the crown and capping level, minimizing gas exchange and internal corrosion. In situations where the type of soil requires more robust methods, it may be necessary to perform borehole drilling.

BOATYARD EQUIPMENT

BOATYARD EQUIPMENT

Lindley offers a complete range of equipment for beaching and parking boats, and structures for dry docking. Through the experience amassed over the years and from our partners, our technical team offers to our customers a comprehensive service, which includes advice in the selection of the most adequate equipment for the needs of each project, assembly and turn-key installation, staff training and high quality after-sales service. We work exclusively with top quality equipment, thus ensuring a long-lasting relationship with our customers by maximizing the return on their investment.

TRAVELIFTS

FORKLIFTS

HYDRAULIC BOAT TRAILERS

BOAT STANDS

DRYSTACK-BOAT STORAGE

SPECIAL PROJECTS

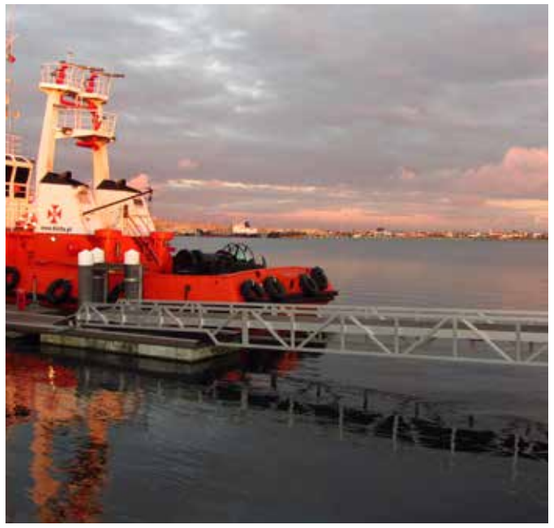
SPECIAL PROJECTS

One of the differentiating factors of LINDLEY MARINAS, stemming from its many years of experience in the design, manufacture and installation of floating equipment, is the flexibility in developing solutions tailored to the specific requirements of each application.

This has meant that we have regularly developed special projects that allow us to present a wide range of solutions.

WALKWAYS AND BRIDGES

INDUSTRIAL PONTOONS



PUMP PLATFORMS

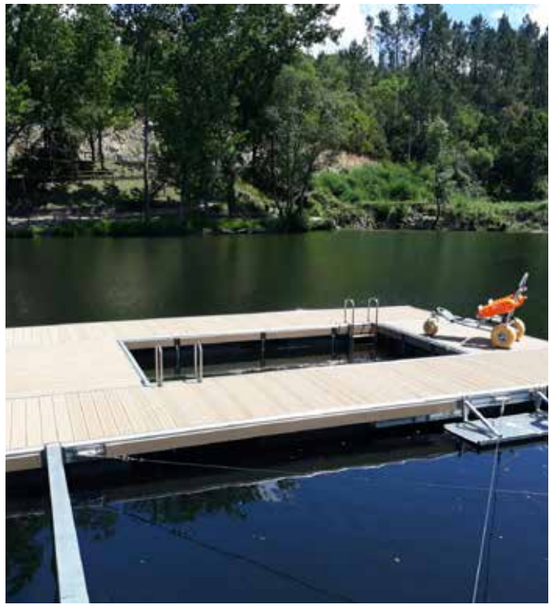
FERRY AND TOURIST BOAT JETTIES

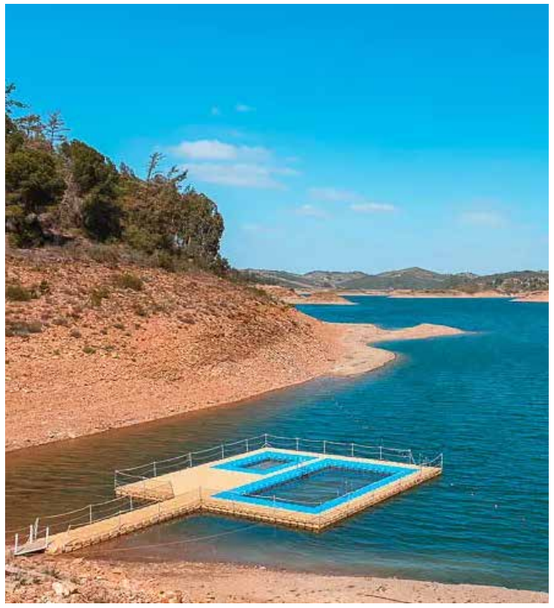
SPECIAL PROJECTS

PONTOONS WITH DISABLED ACCESS

ROWING AND CANOEING PIERS

FLOATING SWIMMING POOLS





SAILING RAMPS

EQUIPMENT RENTAL

EQUIPMENT RENTAL

LINDLEY has solutions and equipment for temporary rental to use in events and sporting events.

By using material from our standard range, it is possible to create floating solutions to safely receive boats and people, meeting the needs of each location and application.

For more information, please contact us:

T: +351 21 469 2024 | +351 91 879 81 23

E: geral@lindley.pt

INNOVATION, QUALITY AND ENGINEERING

INNOVATION AND QUALITY

Quality control of manufactured equipment is a priority for Lindley. Our company maintains strict supervision on the quality of workmanship, raw materials, and the traceability of its products to prove their evolution throughout their useful life.

In its commitment to quality, Lindley is ISO9001:2015 certified by SGS. Compliance with standard procedures allows for rigor in its activities and promotes constant progress in the different activities of the company.

Lindley has a construction license from IMPIC of Portugal, in Category 3 - Hydraulic Works, which enables the company to carry out works in rivers and hydraulic operations, ports, dredging and repairs and surface treatments on metal structures.

The sub-categories of the license fall under class 5 of the INCI, enabling the company to carry out contracts with a total value of up to 2.65m/EUR.

Lindley is a member of PIANC - The World Association for Waterborne Transport Infrastructure, an organization that provides guidance for infrastructure in ports and waterways, regularly participating in technical meetings, seminars and conferences.

SGS

Certificado de Conformidade

Certificate of Registration
PT17/06154

O Sistema de Gestão da Organização
AHLERS, LINDLEY, Lda.

Estrada de Manique, n.º 1896
ALCOITÃO
2645-550 ALCABIDECHE

foi auditado e cumpre com os requisitos da norma

NP EN ISO 9001:2015

Para as atividades de:
Comercialização, Fornecimento, Instalação e Assistência a Equipamento Flutuante para Marinas e Ajudas à Navegação.

Este certificado é válido desde
This certificate is valid from
13 de janeiro de 2021 até 06 de agosto de 2023,
sujeito a auditorias de acompanhamento com resultados satisfatórios
13 January 2021 until 06 August 2023, and remains valid subject to satisfactory surveillance audits
Auditoria de Renovação a realizar antes de 06 de junho de 2023
Re-certification audit due before 06 June 2023
Versão 3. Certificado pela SGS desde setembro de 2017
Issue 3. Certified with SGS since September 2017

A auditoria que levou à emissão deste certificado teve início em 20 de novembro de 2020
The audit leading to this certificate commenced on 20 November 2020
A data de validade do certificado anterior foi até 06 de agosto de 2020
Previous issue certificate validity date was until 06 August 2020

Autorizado por
Authorized by

Luís Neves
Direção de Certificação
Certification Management

Luís Santos

SGS ICS - Serviços Internacionais de Certificação
Rua Tecnológica de Lisboa, 9 piso 0 - 1600-546 Lisboa
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Pág. 1 de 1
Page 1 of 1

IPAC acreditação
A0003
ISO/IEC 17021-1
Sistemas de Gestão

ISO 9001

26/01/2016 Empresas titulares de alvará de empreiteiro de obras públicas - Consultar - IMPIC - Instituto dos Mercados Públicos, do Imobiliário e da Construção

IMPIC Instituto dos Mercados Públicos do Imobiliário e da Construção

Empresas titulares de alvará de empreiteiro de obras públicas

Alvará 62351 - PUB
Data de inscrição 05/06/2009
Classe Máxima 5
NIF/NIPC 500012261
Denominação AHLERS LINDLEY, LDA.
Morada ESTRADA MANIQUE EDF MICAL
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HABILITAÇÕES

Descrição	Classe
3ª Categoria - Obras hidráulicas	
1.ª - Obras fluviais e aproveitamentos hidráulicos	5
2.ª - Obras portuárias	5
5.ª - Dragagens	5
5ª Categoria - Outros trabalhos	
9.ª - Reparações e tratamentos superficiais em estruturas metálicas	5

Impresso a partir do portal do IMPIC, www.impic.pt, em 26/01/2016 14:39

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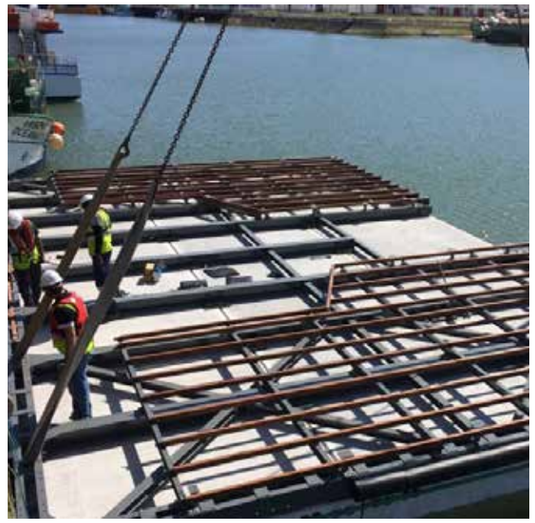
ENGINEERING

Lindley counts on the expertise and experience of the Lindley Group, a holding company with over 90 years of activity in the manufacturing of solutions for the maritime-port sector. This advantage is reflected in the design and control of solutions for its customers. Our mass-produced products are subject to periodic reviews to update designs and procedures.

At Lindley, equipment is continuously developed using the most efficient materials for each application. Before adopting new designs or materials, solutions are tested by various methods, such as physical testing in our facilities or in the marine environment, and testing of material properties in the laboratory.

All new projects are developed from three-dimensional design tools with subsequent structural analysis. The use of the latest technologies, innovative materials, and the dedication of highly skilled personnel ensure the supply of high-quality products to the market.



GRUPO LINDLEY
ESTABLISHED 1930

LINDLEY

Marinas, Harbors and Fishing Docks

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GRUPO LINDLEY
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