

CATALOGUE



MODULAR PONTOON SYSTEM

SB
SMARTBAR ARB



ABOUT US

EXPERTS IN THE FIELD, SPECIALIST SOLUTIONS

At SmartBar we have a team of experts who combine their years of rotational moulding experience with an in-depth knowledge of the automotive industry to constantly innovate and keep our products evolving.

We're passionate about the rotational moulding process and our interest in this technology helps us to constantly innovate.

At our core, we're manufacturers. This need to create runs in our blood and spans far beyond the automotive industry into a large range of Specialty Products, including our Modular Pontoon System. Our customers expect efficiency and scalability from us, which has encouraged the natural expansion into other industries.

Today, we manufacture a large range of high-quality plastic products for the agriculture, marine and diesel sectors.

Our Modular Pontoon Systems are manufactured locally in South Australia using our state of the art machinery and assembled to meet the stringent Australian standards; and wherever possible, we use Australian made.

We are a hands on manufacturer which gives us the highest level of control over each of the processes involved in the creation of our product to ensure the optimal end result.

You'll find our specialty products and pontoon installations in locations from ocean and lake side mariners to rural farms and mine sites. Due to their high level of resistance to environmental stress cracking, corrosive chemicals and abrasive substances they're perfect for marine environments.

With SmartBar you're getting world-class solutions, provided by local experts.

All our products made at our state of the art facility in Lonsdale, South Australia.

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MODULAR PONTOON SYSTEMS

Our Modular Pontoon System is a smart, lightweight structure which with its 1m modular design allows for almost limitless configurations. The system is made up of two major components, the deck and the pontoon base.

The deck is a roto-moulded Linear Low Density Polyethylene (LLDPE) that is perfectly suited to its marine application. The part maintains an exceptional balance of stiffness and toughness, is highly resistant to chemicals and environmental stress cracking (ESC).

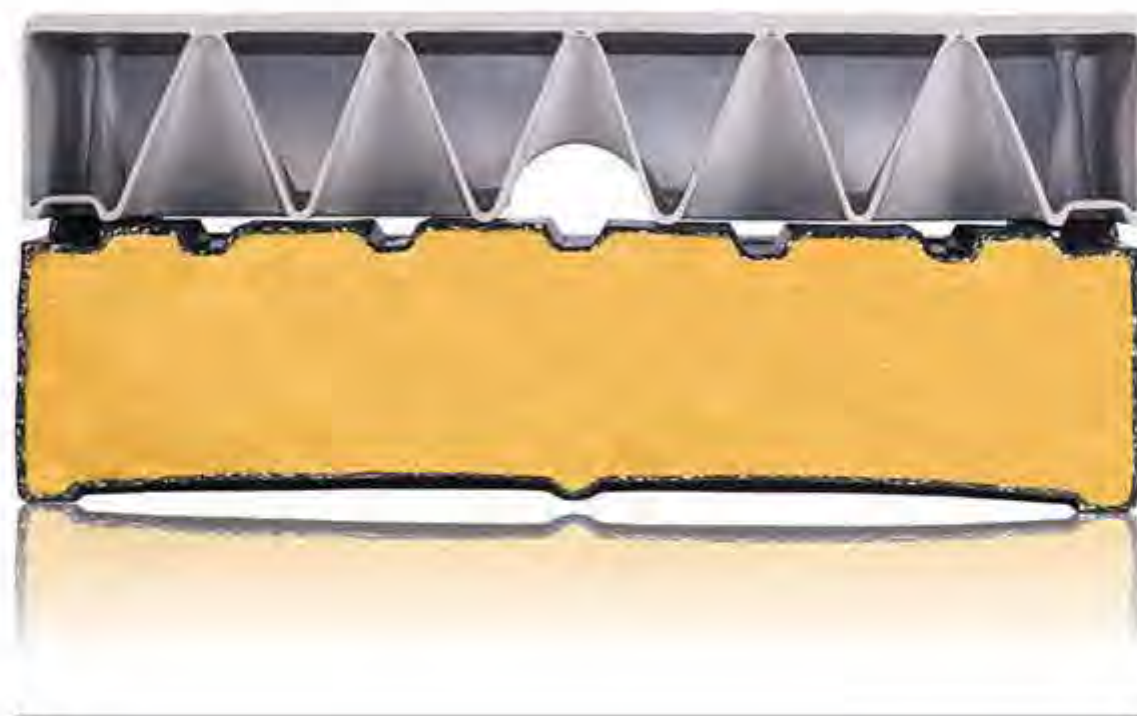
The base is made from the same LLDPE material with added polyethylene re-grind particles for additional strength and rigidity. This increases the resistance to impact. Unlike the deck, the base is foam filled to ensure that should the skin of the base be broken, it won't fill with water, keeping you afloat in most situations.

Easy and economical to transport, our decks come with a 10 year warranty against UV degradation and can accommodate optional components such as ladders, hand rails and pile guides. There's no job too big or too small, we have the capacity and ability to cater jobs to your needs; and have extensive expertise with complex, large scale installations.

With almost endless design possibilities and even customisable standard parts or components, our team can design the right modular pontoon solution for your project.

FEATURES

MODULAR PONTOON SYSTEM



FEATURES

- > Textured, non-slip surface on the deck
- > Foam filled Pontoon base
- > Virtually unsinkable design
- > Easy to install
- > 10 year Warranty against UV degradation
- > Channel between deck and base to allow for service cables (such as power)
- > Extra float available to provide extra buoyancy and 94kg load capacity
- > Material used has been formulated to pass the UV requirements of AS/NZS 4766:2006
- > Completely modular design creates limitless options for configurations and components can easily be added

- > Modular design also allows for cost effective, easy component replacement
- > The construction and materials provide a long product life span
- > Lightweight, economical to transport/handle/install

ACCESSORIES

We offer a multitude of easily installed accessories such as; ladders, cleats, fenders, hand rails and other attachments for a range of uses on the system. Refer overleaf for a more detailed illustration of the products.

MOORING

A brief summary of the systems and considerations are contained in this booklet in a subsequent section.

However for Mooring advice, we recommend that you talk to your installer regarding the most appropriate mooring system to suit your needs.

ASSEMBLY EXPLAINED

MODULAR PONTOON SYSTEM



FEATURE LOOK UP

1. Pontoon Deck
Roto-moulded Polyethylene

2. Pontoon Base
Foam filled, roto-moulded Polyethylene combined with regrind for added strength and durability

3. Moulded Nutserts
40 x M10 locations used to attach accessories to Pontoon Base, such as Joiner Plates

4. Moulded Screw Holes
16 x M12 locations used to join the pontoon and base together

5. Services Channel
Service cables for things such as power are accommodated via a channel under the deck

6. Non Slip Surface
The moulded non-slip surface is durable and effective without being harsh on bare feet

7. Mount/Cleat Location
8 x locations used to join the pontoon and base together, or to house cleats

8. In Mould Ribs
Underside detail of Pontoon is constructed to provide additional rigidity and support

PRODUCT MATRIX




See the entire range of Decks, Bases, Gangway Kits and a wide range of accessories available to customise a system to your needs.

PRODUCT MATRIX: FOAM FILLED PONTOON BASE

Colour Available 

SIZE	CODE	DESCRIPTION
1 M x 1 M	TP6872	Pontoon Base, Foam Filled
2 M x 1 M	TP6889	Pontoon Base, Foam Filled
3 M x 1 M	TP6896	Pontoon Base, Foam Filled
3 M x 2 M	TP6902	Pontoon Base, Foam Filled
3 M x 2 M	TP19186	Pontoon Base, Foam Filled w/ Bottom Nut Serts

PRODUCT MATRIX: PONTOON DECK WITH 316 SS HARDWARE

Colour Available   

SIZE	CODE	DESCRIPTION
2 M x 1 M	TP20687	Pontoon Deck, Birch Grey
2 M x 1 M	TP20595	Pontoon Deck, River Gum
2 M x 1 M	TP20779	Pontoon Deck, Slate Grey
3 M x 1 M	TP20656	Pontoon Deck, Birch Grey
3 M x 1 M	TP20564	Pontoon Deck, River Gum
3 M x 1 M	TP20748	Pontoon Deck, Slate Grey
3 M x 2 M	TP20427	Pontoon Deck, Birch Grey
3 M x 2 M	TP20625	Pontoon Deck, River Gum
3 M x 2 M	TP20717	Pontoon Deck, Slate Grey

PRODUCT MATRIX: PONTOON DECK WITH GALVANISED HARDWARE

Colour Available   

SIZE	CODE	DESCRIPTION
2 M x 1 M	TP20663	Pontoon Deck, Birch Grey
2 M x 1 M	TP20571	Pontoon Deck, River Gum
2 M x 1 M	TP20755	Pontoon Deck, Slate Grey
3 M x 1 M	TP20632	Pontoon Deck, Birch Grey
3 M x 1 M	TP20540	Pontoon Deck, River Gum

**PRODUCT MATRIX:
PONTOON DECK WITH GALVANISED HARDWARE [CONT.]**

Colour Available   

SIZE	CODE	DESCRIPTION
3 M x 1 M	TP20724	Pontoon Deck, Slate Grey
3 M x 2 M	TP20601	Pontoon Deck, Birch Grey
3 M x 2 M	TP20526	Pontoon Deck, River Gum
3 M x 2 M	TP20694	Pontoon Deck, Slate Grey

**PRODUCT MATRIX:
PONTOON DECK GANGWAY KIT**

Colour Available   

SIZE	CODE	DESCRIPTION
2 M x 1 M	TP20670	Pontoon Deck Gangway Kit, Birch Grey
2 M x 1 M	TP20588	Pontoon Deck Gangway Kit, River Gum
2 M x 1 M	TP20762	Pontoon Deck Gangway Kit, Slate Grey
3 M x 1 M	TP20649	Pontoon Deck Gangway Kit, Birch Grey
3 M x 1 M	TP20557	Pontoon Deck Gangway Kit, River Gum
3 M x 1 M	TP20731	Pontoon Deck Gangway Kit, Slate Grey
3 M x 2 M	TP20618	Pontoon Deck Gangway Kit, Birch Grey
3 M x 2 M	TP20533	Pontoon Deck Gangway Kit, River Gum
3 M x 2 M	TP20700	Pontoon Deck Gangway Kit, Slate Grey

**PRODUCT MATRIX:
ACCESSORIES [MOULDED POLY COMPONENTS]**

CODE	DESCRIPTION
TP7404	Extra Float
TP7411	Fender Kit

**PRODUCT MATRIX:
ACCESSORIES [FABRICATED COMPONENTS]**

CODE	DESCRIPTION
TP18905	Abutment Hinge, Galvanised
TP20960	Abutment Hinge Cover Plate, Aluminium
TP10213	Cleat Kit, 316 Stainless Steel
TP10183	Cleat Kit, Galvanised
TP10022	Hand Rail (1m), Galvanised
TP10220	Hand Rail (2m), Galvanised
TP10237	Hand Rail (3m), Galvanised
TP50848	Hinge Kit (1m), includes 2 x Hinges and a 1m Rubber Strip
TP11524	Hinge Kit (2m), includes 4 x Hinges and a 2m Rubber Strip
TP27914	Hinge Kit (3m), includes 6 x Hinges and a 3m Rubber Strip
TP10077	Joiner Kit, Galvanised
TP10084	Joiner Kit, 316 Stainless Steel
TP10053	Ladder (Long), Galvanised
TP10060	Ladder (Long), 316 Stainless Steel
TP10039	Ladder (Short), Galvanised
TP10046	Ladder (Short), 316 Stainless Steel
TP10190	Mooring Chain Attachment Kit (Corner), Galvanised
TP10008	Mooring Chain Attachment Kit (Left Hand), Galvanised
TP20885	Mooring Chain Attachment Kit (Left Hand), 316 Stainless Steel
TP10015	Mooring Chain Attachment Kit (Right Hand), Galvanised
TP20878	Mooring Chain Attachment Kit (Left Hand), 316 Stainless Steel
TP10107	Mooring Chain Attachment Kit (Double), Galvanised
TP22926	Mooring Chain Attachment Kit (Double), 316 Stainless Steel
TP11531	Pile Guide Kit, Galvanised. Kit includes a 2" Pile
TP10206	Pile Guide 200mm Small Universal, 316 Stainless Steel
TP10299	Pile Guide 200mm Small Universal, Galvanised
TP20939	Pile Guide (External) Medium Diameter, Aluminium
TP20946	Pile Guide (External) Small Diameter, Aluminium
TP20908	Pile Guide (Internal), 316 Stainless Steel
TP20915	Pile Guide (Internal) Small Diameter, Galvanised
TP20922	Pile Guide (Internal) Cover Plate, Aluminium
TP20953	Support Pad Kit, High Density Polyethylene

SPECIFICATIONS

WEIGHTS / DIMENSIONS / LOAD CAPACITIES

MODULAR PONTOON SYSTEM: PONTOON DECK

SIZE	DIMENSIONS	WEIGHT
2 M x 1 M	1950 x 975 x 150	35 KG
3 M x 1 M	2925 x 975 x 150	48 KG
3 M x 2 M	2925 x 1950 x 150	103 KG

MODULAR PONTOON SYSTEM: PONTOON BASE

SIZE	DIMENSIONS	WEIGHT	LOAD	DISPLACEMENT
1 M x 1 M	975 x 975 x 250	29 KG	152 KG	0.17 M ³
2 M x 1 M	1953 x 970 x 250	52 KG	304 KG	0.33 M ³
3 M x 1 M	2930 x 975 x 250	85 KG	456 KG	0.50 M ³
3 M x 2 M	2930 x 1950 x 250	151 KG	913 KG	1 M ³

PLEASE NOTE

Load Capacities listed for the Pontoon Base, do not include the weight of the Deck.

Listed weight of the Pontoon Base includes Powder, Regrind and the Foam.

Note that all dimensions, weight and capacities stated will invariably vary.

Capacity load allows for 50mm freeboard.

ACCESSORY GUIDE

We offer a significant amount of accessories to assist in achieving your desired result. Your custom components can be attached to the pontoon system using the moulded nutserts in the top surface of the deck, or in



MOULDED COMPONENTS

EXTRA FLOAT



- Provides 94kg extra load capacity
- Total Displacement of 0.13 M³
- Available in Black
- TP7404

FENDER KITS



- Protects Pontoon from Vessel impacts
- Connects to side of system
- Durable Polyethylene Construction
- 1 metre sections
- TP7411

CORNER DECK



- 10kg total weight
- 975 x 975 x 150
- Used to gusset joints in the system

FABRICATED COMPONENTS

ABUTMENT HINGE



- Provides heavy duty connection between concrete abutment and Pontoon System
- Galvanised only

ABUTMENT COVER



- Conceals gap between Pontoon System and abutment
- Multitude of uses depending on mooring
- Hinged component to move with system
- Aluminium

CLEAT KIT



- Available in 316 Stainless Steel or Galvanised depending on required application
- 1 metre kit
- Used as many times as required for joint

HAND RAIL



- Galvanised only
- 1, 2 and 3 metre sizes available
- Connected to Deck in required configuration
- Safety adding feature
- Installed into the deck using M12 Coach Bolts

HINGE KIT



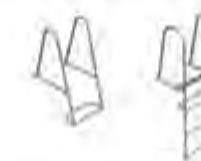
- 2 Hinges required p/m
- 1 metre kit includes 2 Hinges
- 316 Stainless Steel
- Includes rubber strip to seal gap
- 1m, 2m and 3m kits available

JOINER KIT



- Available in 316 Stainless Steel or Galvanised depending on required application
- 1 metre kit
- Used as many times as required along length of joint

LADDERS



- Available in 316 Stainless Steel or Galvanised depending on required application
- Easy access to and from the water
- Long and Short options available

MOORING CHAIN ATTACHMENT KIT



- LHS Attachment
- Available in 316 Stainless Steel or Galvanised depending on required application
- Used to secure Pontoon in place
- Tie to block under water or to an anchor point on shore

MOORING CHAIN ATTACHMENT KIT



- RHS Attachment
- Available in 316 Stainless Steel or Galvanised depending on required application
- Used to secure Pontoon in place
- Tie to block under water or to an anchor point on shore

MOORING CHAIN ATTACHMENT KIT



- Double Attachment
- Available in 316 Stainless Steel or Galvanised depending on required application
- Used to secure Pontoon in place
- Tie to block under water or to an anchor point on shore

MOORING CHAIN ATTACHMENT KIT



- Corner Attachment
- Available in 316 Stainless Steel or Galvanised depending on required application
- Used to secure Pontoon in place
- Tie to block under water or to an anchor point on shore

2" PILE GUIDE KIT



- Complete 2" Pile Guide Kit Galvanised Metal Components
- Includes 2" Pile

UNIVERSAL PILE GUIDE



- 200mm Small Universal External Pile Guide
- Available in 316 Stainless Steel and Galvanised
- TP10266 (SS)
- TP10299 (Galv)

EXTERNAL PILE GUIDE



- Aluminium
- Supplied with rubber stops to provide adjustability
- Simple installation onto Deck
- TP20939

EXTERNAL PILE GUIDE



- Aluminium
- Supplied with rubber stops in the corners to protect joints
- Simple installation onto Deck
- TP20946

INTERNAL PILE GUIDE



- Available in 316
- Stainless Steel or Galvanised depending on required application
- Maximum Pile Guide Diameter of 450mm
- TP20915 (SS)
- TP20915 (Galv)

PILE GUIDE COVER



- Used to cover the internal pile guide
- 5mm Aluminium
- TP20922

SUPPORT PAD KIT



- High Density Polyethylene
- Wear pad for underside of pontoon base when set on land (e.g. concrete boat ramp)
- If wear pads are required, 3 x 2 Pontoon Base (TP19186) must be used
- TP20953

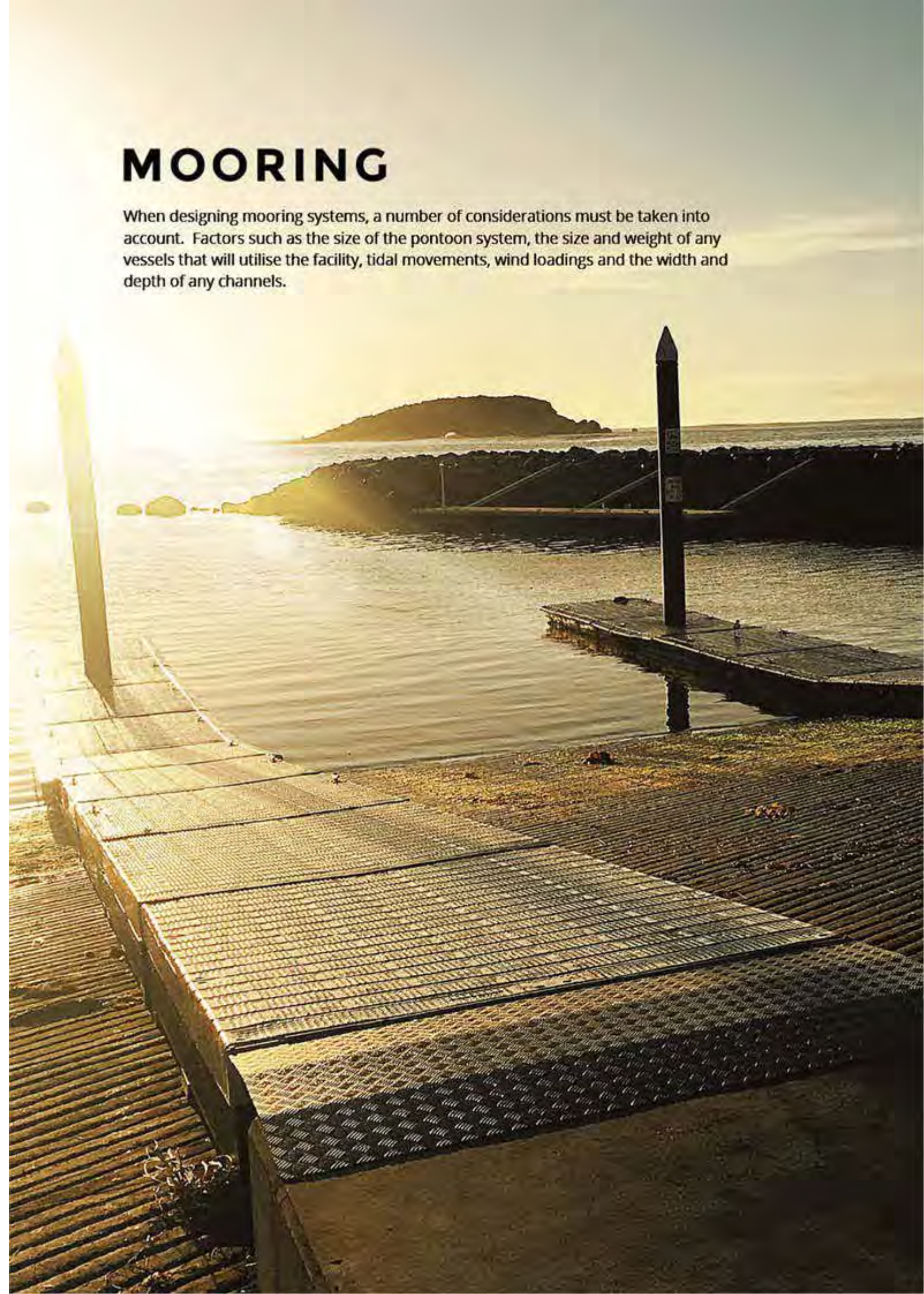
PONTOON DECK GANGWAY KIT



- Available for 2 x 1, 3 x 1 and 3 x 2 deck
- Colour matched to your deck
- Allows easy access to Pontoon on water
- Reinforced with Aluminium Poles

MOORING

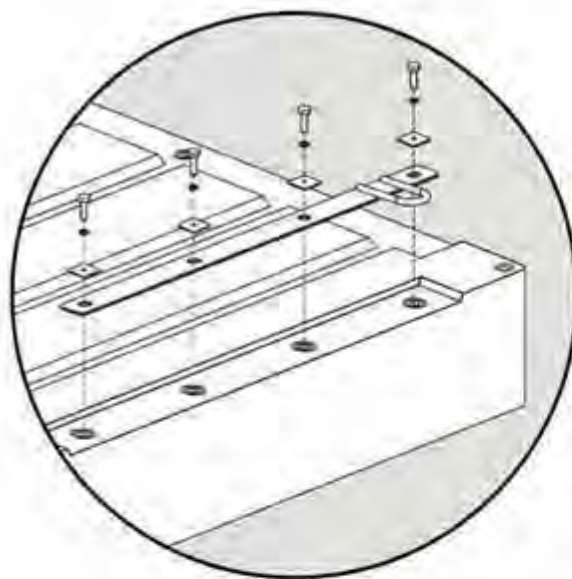
When designing mooring systems, a number of considerations must be taken into account. Factors such as the size of the pontoon system, the size and weight of any vessels that will utilise the facility, tidal movements, wind loadings and the width and depth of any channels.



TYPICAL MOORING SYSTEMS: HOW TO ATTACH MOORING CABLES

The mooring chain/cables are strapped to the Pontoon Base using the Mooring Plate attachment; however there are a number of methods for mooring. Illustrated here is the location of the Mooring Plate recess in the base. As per the Accessories Guide, there are LH, RH, Double and Corner Mooring Attachment Plates that utilise this area to attach mooring chains.

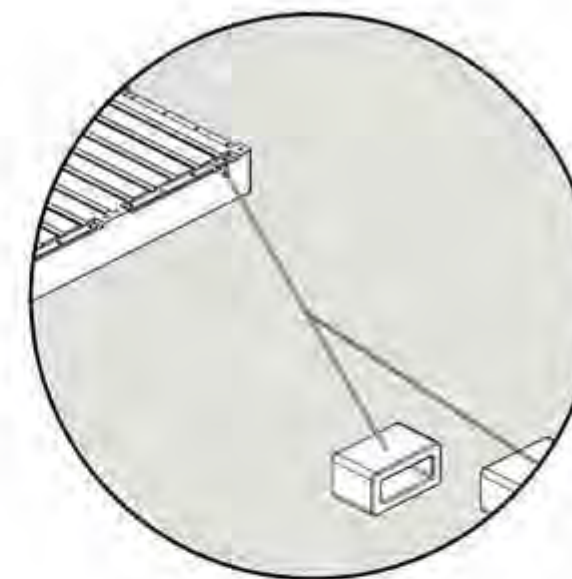
Please note that other mooring systems are available. We recommend that you talk to your installer regarding the best mooring system for your application.



TYPICAL MOORING SYSTEMS: MOORING WITH CHAIN AND BLOCK

Should your design not require a land based mooring system, such as an "island" design, or perhaps your location doesn't have any fixings suitable to moor the system to the shore; you can moor it using a chain and blocks.

The chains still utilise the same previously mentioned Mooring Plate accessories, which are still attached to the base, the structure is just secured to a series of heavy blocks which sit on the river/sea bed.



TYPICAL MOORING SYSTEMS: MOORING TO SHORE

One of the most common ways for the Pontoon System to be moored, is via chain/cables from the Mooring Plate attachment back to a fixed point on land.

Illustrated here is the Pontoon Base with the attachment plates installed, with the cables then running from them. The Pontoon Deck would then be fixed to the base over the top to conceal the Mooring Plates.

As shown in the accessory guide, we offer several alternative Mooring Plates which can be used depending on the size/requirement/orientation of your system.



TYPICAL MOORING SYSTEMS: PYLON MOORING SYSTEM [TO BE DESIGNED BY YOUR INSTALLER]

For more comprehensive, larger systems; pylon's may be used to moor the structure by utilising pile guides which are mounted to the base in a groove underneath the deck. Depending upon the application and requirement, we have several pile guide accessory options (both internal and external guides) and can make modifications to the deck and base to accommodate larger pylons.

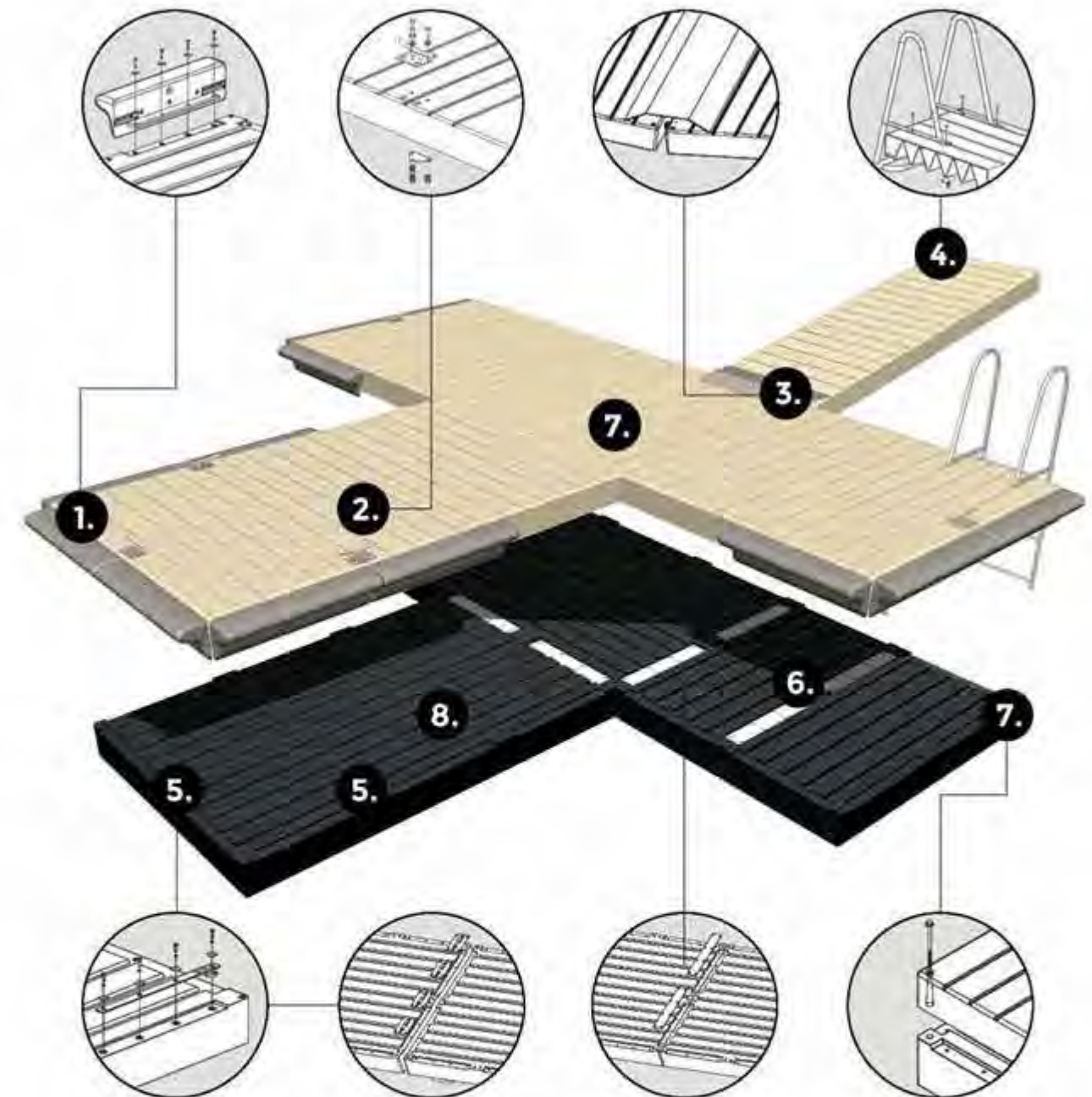
We also offer a 2" Pylon System Kit, which can be used to install your own pylons (in the even there are no existing) in consultation with your installer and have considered any recommendations made by an Engineer.



TYPICAL INSTALLATION

We have the ability to cater any design to suit your needs, however depicted opposite is a typical small marina installation broken down to illustrate the components, accessories and method of assembly.

Note that the staggered arrangement of the decks and bases is utilised to achieve optimal strength for the structure.



1 Fenders

Fitted in accessory attachment location (5) with M12 coach bolts

2 Cleats

Used to moor vessels and help affix deck to base

3 Gangway & Hinge Cover

Hinge Kit joins base to gangway deck, hinged cover conceals gap

4 Ladder

Fitted to the deck using M10 SS hardware

5 Accessory Attachment Locations

Recesses in the bases can be used to mount accessories such as Hinges & Mooring Plates

6 Joiner Plates

Based affixed using Joiner Plates & M12 coach bolts

7 Mounting Locations

Decks are bolted to Bases through a moulded hole with M12 Coach Bolts

8 Deck Configuration

(3 Qty) 3M x 2M
(2 Qty) Corner Deck
(1 Qty) 3M x 1M Deck Gangway Kit

9 Base Configuration

(2 Qty) 3M x 2M
(3 Qty) 2M x 1M
Bases fixed with Steel Joiner Plates

MADE TO ORDER

Our systems allow limitless configurations by joining any number of modules together to create your desired design. There's no job too big or too small, we have the capacity to cater the job to your needs.

We can even customise the standard parts or components to suit your specific requirements. Please note however that an engineer should be consulted regarding the suitability of the SmartBar Modular Pontoon System for your intended use; and unfortunately we do not provide an installation service.



CONTACT

> STREET ADDRESS

36 Waddikee Road
Lonsdale SA 5160

> POSTAL ADDRESS

PO Box 41
Lonsdale SA 5160

> DIRECTORY

08 8384 0292
08 8384 0271
info@smartbar.com.au

> ONLINE

www.smartbar.com.au

> SOCIAL

facebook.com/smartbaraustalia
youtube.com/smartbaraustalia
@smartbaraustalia

