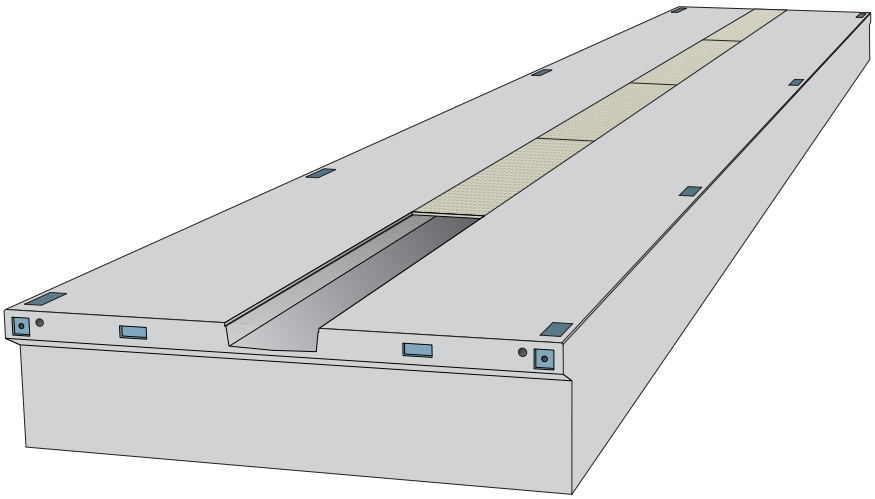
MARINETEK

More than Surface

Product Range 2011

Concourse Pontoons 5300, 6300

The **Concourse Pontoons** are the largest products in the Marinetek Premium Range. With available widths of 5 and 6 meters the pontoons are designed to provide the main access pontoons for the largest marinas. The pontoons are extremely stable and are suitable also for public applications. The units can be provided with large top entry service channels to carry the full range of water, power, fuel, grey water and fire mains. The Concourse Pontoons can be moored either by piles, chain or Seaflex.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts, service channels (1000x250 mm) and fenders (timber or plastic)

FLOATS	M5316CO	M5320CO	M6316CO	M6320CO
Length (m)	16,05	19,90	16,05	19,90
Concrete width (m)	5,0	5,0	6,0	6,0
Height (m)	1,2	1,2	1,2	1,2
Weight (t)	38,7-42,6	48,3-53,2	46,5-51,1	58,0-63,8
Net capacity (kN/m^2)	6,5-7,0	6,5-7,0	6,5-7,0	6,5-7,0
Freeboard (m)	0,65-0,70	0,65-0,70	0,65-0,70	0,65-0,7,0
Strength of joint (kN)	2x812	2x812	2x812	2x812
Joint gap (mm)	35	35	35	35

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

Marinetek operates a policy of continuous development and reserves the right to change specifications without notice.

Revision date: 15.01.2008

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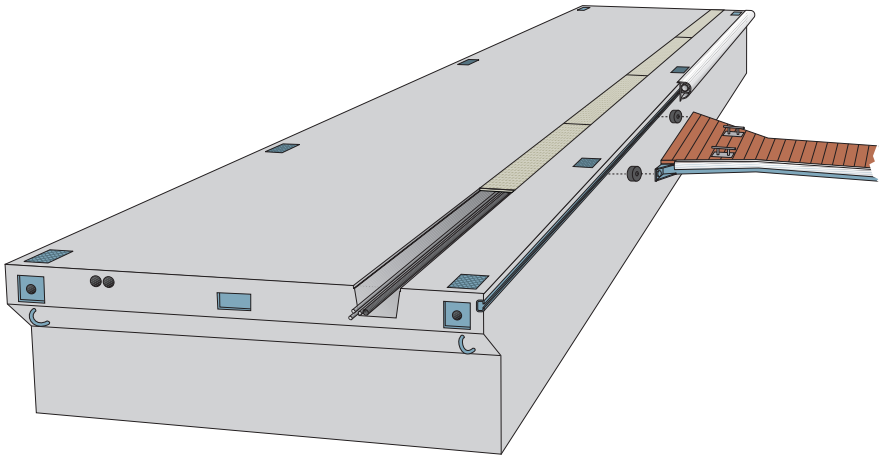
MARINETEK
More than Surface

Super Yacht Pontoons 3300, 3800, 4300, 4800

The **Super Yacht Pontoons** are part of the Premium Range and have been designed for the mooring of the biggest boats and of super yachts in modern marinas. The design of the units is based on the Marinetek Breakwaters and are of extremely strong construction with reinforced joints and mooring points. The pontoons have a high deck loading capacity and exceptional stability. Mooring can be by piles, chain or Seaflex.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts, service channels (240x120 / 350x250 mm) and fenders (timber or plastic)

FLOATS	3316SY	3320SY	3816SY	3820SY	4316SY	4320SY	4816SY	4820SY
Length (m)	16,05	19,90	16,05	19,90	16,05	19,90	16,05	19,90
Concrete width (m)	3,0	3,0	3,5	3,5	4,0	4,0	4,5	4,5
Height (m)	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
Weight (t)	26,0-28,5	32,0-35,0	27,1-29,8	33,8-37,2	31,0-34,1	38,7-42,5	35,5-39,1	44,1-48,5
Net capacity (kN/m^2)	6,0-6,5	6,0-6,5	6,5-7,0	6,5-7,0	6,5-7,0	6,5-7,0	6,5-7,0	6,5-7,0
Freeboard (m)	0,60-0,65	0,60-0,65	0,65-0,70	0,65-0,70	0,65-0,70	0,65-0,70	0,65-0,70	0,65-0,70
Strength of joint (kN)	2x703	2x703	2x703	2x703	2x703	2x703	2x703	2x703
Joint gap (mm)	35	35	35	35	35	35	35	35

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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Revision date: 15.01.2008

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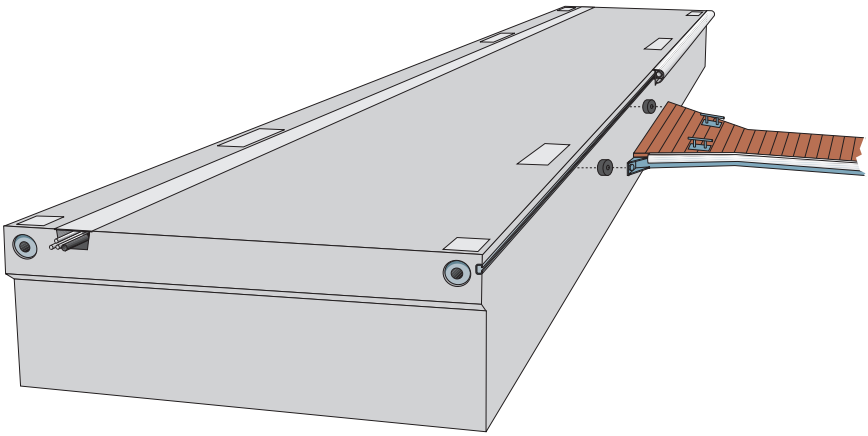
MARINETEK
More than Surface

Premier Pontoons 2700, 3300

The **Premier Pontoon** range represents the latest technology in concrete pontoon construction. All units can be provided with integral top entry service channels. As with all Marinetek concrete systems these are of exceptionally strong construction with continuous floatation providing a high loading capacity with a higher freeboard option for large boat marinas. Premier pontoons can be moored by piles, chain or Seaflex.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts, service channels (240x120 mm) and fenders (timber or plastic)

FLOATS	M2712PE	M2715PE	M3312PE	M3315PE	M2712PEH	M2715PEH	M3312PEH	M3315PEH
Length (m)	11,92	14,92	11,92	14,92	11,92	14,92	11,92	14,92
Concrete width (m)	2,4	2,4	3,0	3,0	2,4	2,4	3,0	3,0
Height (m)	1,0	1,0	1,0	1,0	1,2	1,2	1,2	1,2
Weight (t)	11,2-12,6	14,1-15,9	14,0-15,8	17,6-19,8	14,0-15,5	17,6-19,8	17,5-19,3	22,0-24,2
Net capacity (kN/m^2)	5,5-6,0	5,5-6,0	5,5-6,0	5,5-6,0	6,5-7,0	6,5-7,0	6,5-7,0	6,5-7,0
Freeboard (m)	0,55-0,6	0,55-0,6	0,55-0,6	0,55-0,6	0,65-0,7	0,65-0,7	0,65-0,7	0,65-0,7
Strength of joint (kN)	2x322	2x322	2x322	2x322	2x322	2x322	2x322	2x322
Joint gap (mm)	35	35	35	35	35	35	35	35

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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Revision date: 15.01.2008

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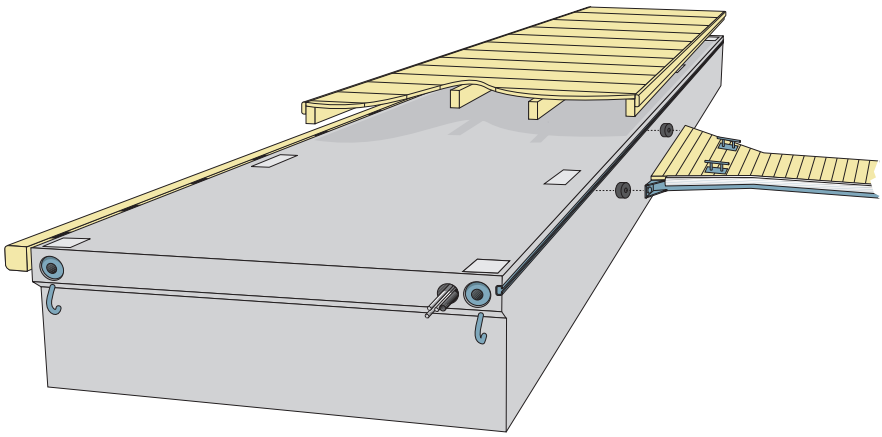
MARINETEK
More than Surface

Heavy Duty Pontoons 2700, 3300, 4300

The **Heavy Duty Pontoons** have been designed for boat moorings in modern marinas, overpass bridges and landing stages. They are very strong and maintenance free with high loading capacity and long service life. Internal cable ducts are available for water and electricity. The Heavy Duty Pontoons can be moored either by piles, chain or Seaflex and have been designed for economic freight and easy installation.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts and fenders (timber or plastic)

FLOATS	M2712HD	M2715HD	M3312HD	M3315HD	M4312HD	M4315HD
Length (m)	11,92	14,92	11,92	14,92	11,92	14,92
Width with fenders (m)	2,7	2,7	3,3	3,3	4,3	4,3
Concrete width (m)	2,4	2,4	3,0	3,0	4,0	4,0
Height (m)	0,85	0,85	0,85	0,85	0,85	0,85
Weight (t)	10,9	13,6	12,3	15,4	16,4	20,6
Net capacity (kN/m^2)	4,6	4,6	5,0	5,0	5,0	5,0
Freeboard (m)	0,46	0,46	0,50	0,50	0,50	0,50
Strength of joint (kN)	2x322	2x322	2x322	2x322	2x322	2x322
Joint gap (mm)	35	35	35	35	35	35

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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Revision date: 15.01.2008

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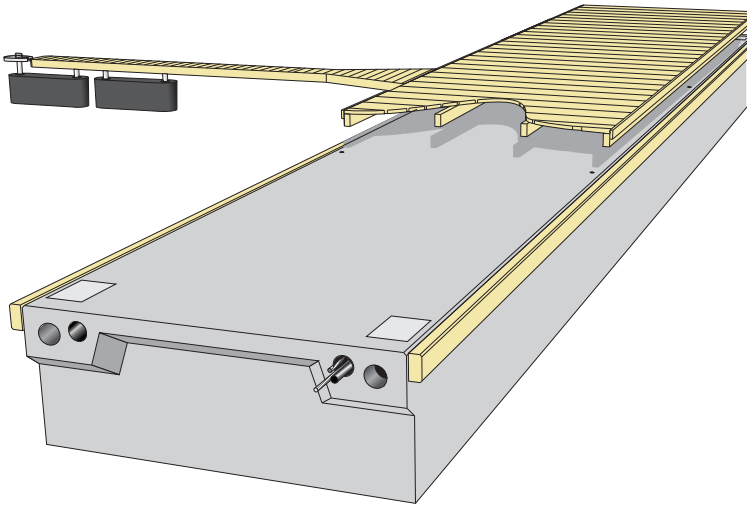
MARINETEK
More than Surface

All-Concrete Pontoons 2400, 3000

The **All-Concrete** represents the latest know-how and design of the Marinetek pontoon portfolio. It is light and inexpensive but still gives a very long service life. Its' innovative end-to-end connection box, mooring wells and lifting system are all rust-proof. Internal cable ducts are available for water and electricity. The Pontoon has been designed for economic freight, easy installation and for modern marinas. Pontoon length can be chosen in 3 m intervals because of the 9 m long float. Mooring is by piles, chain or Seaflex.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts and fenders (timber or plastic)

FLOATS	M2409AC	M2412AC	M2415AC	M3009AC	M3012AC	M3015AC
Length (m)	8,92	11,92	14,92	8,95	11,92	14,92
Width with fenders (m)	2,4	2,4	2,4	3,0	3,0	3,0
Concrete width (m)	2,2	2,2	2,2	2,8	2,8	2,8
Height (m)	0,85	0,85	0,85	0,85	0,85	0,85
Weight (t)	7,2	9,8	12,3	8,2	11,0	13,8
Net capacity (kN/m^2)	4,7	4,7	4,7	5,0	5,0	5,0
Freeboard (m)	0,47	0,47	0,47	0,50	0,50	0,50
Strength of joint (kN)	2x180	2x180	2x180	2x180	2x180	2x180
Joint gap (mm)	35	35	35	35	35	35

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

Marinetek operates a policy of continuous development and reserves the right to change specifications without notice.

Revision date: 15.01.2010

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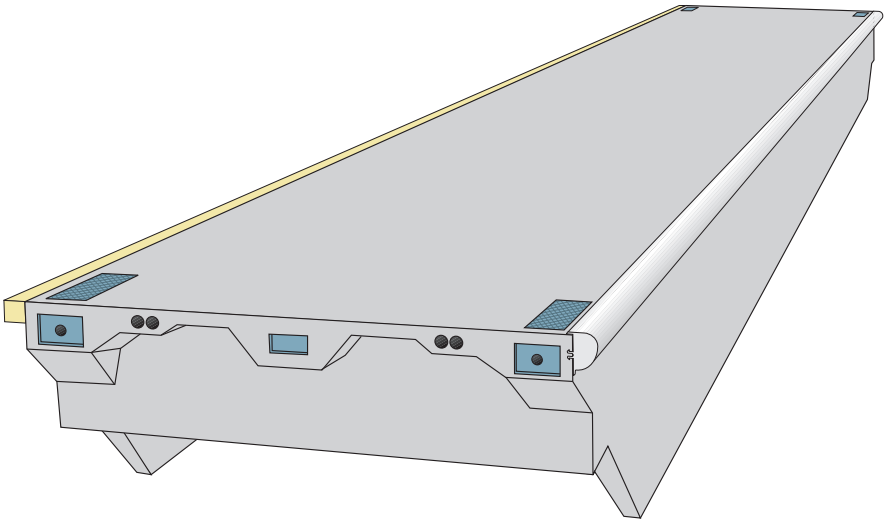
MARINETEK
More than Surface

Breakwater 4300K

The **Breakwater 4300K** units are massively strong and durable. Professionally designed by experienced engineers, the breakwaters have a long maintenence free service life. Features of the design are high freeboard, the exceptionally strong rubber/steel connections and the accessibility of the anchor connections providing easy installation. Fitted with twin keels the 4300K breakwater units have very effective wave attenuation characteristics.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

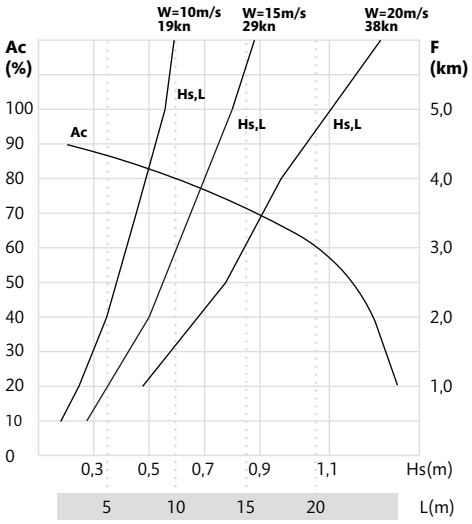
Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts and fenders (timber or plastic)

WAVE ATTENUATION CAPACITY

Sheltered sea conditions

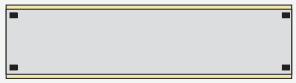


F=Effective fetch lenght. **W**=Wind velocity.
L=Wave length. **Hs**=Significant wave height.
Ac=Wave attenuation capacity.

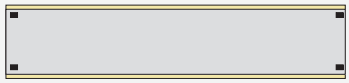
FLOATS	M4316BRK	M4320BRK
Length (m)	16,05	19,90
Width with fenders (m)	4,3	4,3
Concrete width (m)	4,0	4,0
Height (m)	1,8	1,8
Weight (t)	33,6	41,2
Net capacity (kN/m^2)	6,0	6,0
Freeboard (m)	0,6	0,6
Strength of joint (kN)	2x812	2x812
Joint gap (mm)	90	90

LAYOUT

M4316BRK



M4320BRK



Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

Marinetek operates a policy of continuous development and reserves the right to change specifications without notice.

Revision date: 15.01.2008

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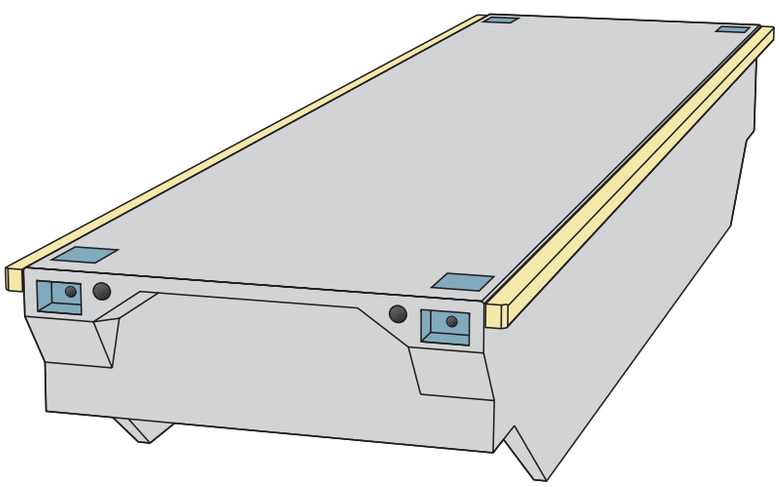
MARINETEK
More than Surface

Breakwater 3300K

The **Breakwater 3300K** units are massively strong and durable. Professionally designed by experienced engineers, the breakwaters have a long maintenance free service life. Features of the design are the exceptionally strong rubber/steel connections, the accessibility of the anchor connections providing easy installation and the optimised size for road transport. Fitted with twin keels the 3300K breakwater units have very effective wave attenuation characteristics.



TECHNICAL DATA

Concrete strength: 45-55 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

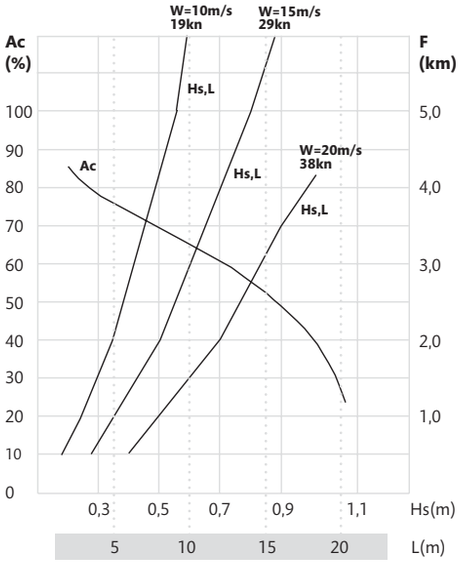
Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts and fenders (timber or plastic)

WAVE ATTENUATION CAPACITY

Sheltered sea conditions

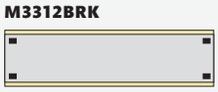


F=Effective fetch lenght. **W**=Wind velocity.
L=Wave length. **Hs**=Significant wave height.
Ac=Wave attenuation capacity.

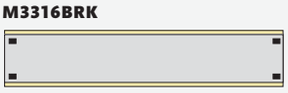
FLOATS	M3312BRK	M3316BRK
Length (m)	12,2	16,1
Width with fenders (m)	3,3	3,3
Concrete width (m)	3,0	3,0
Height (m)	1,8	1,8
Weight (t)	21,1	28,2
Net capacity (kN/m^2)	5,5	5,5
Freeboard (m)	0,55	0,55
Strength of joint (kN)	2x812	2x812
Joint gap (mm)	90	90

LAYOUT

M3312BRK



M3316BRK



Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

Marinetek operates a policy of continuous development and reserves the right to change specifications without notice.

Revision date: 14.11.2008

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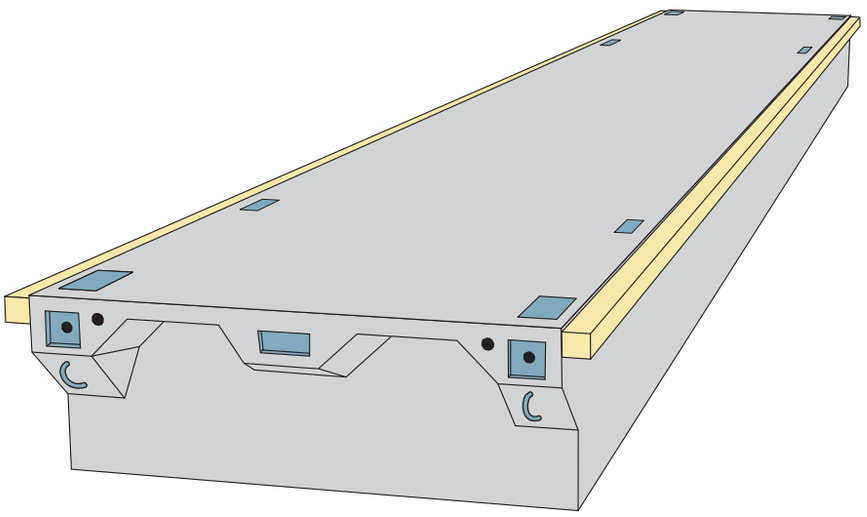
MARINETEK
More than Surface

Breakwater 3800

The **Breakwater 3800** is a massive and extremely strong concrete pontoon. Carefully calculated structural design ensures exceptionally effective wave attenuation properties, making it the right choice in demanding environments. The floats are connected by flexible rubber and steel joints. The construction is very strong and maintenance free, ensuring a long service life. The breakwater can be moored either by chain or Seaflex.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

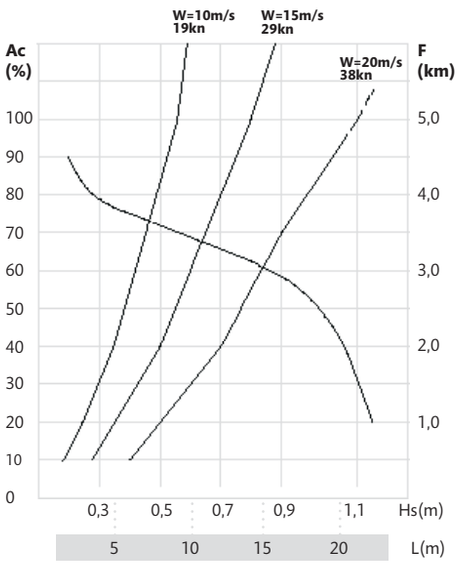
Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts and fenders (timber or plastic)

WAVE ATTENUATION CAPACITY

Sheltered sea conditions



F=Effective fetch lenght. **W**=Wind velocity.
L=Wave length. **Hs**=Significant wave height.
Ac=Wave attenuation capacity.

FLOATS	M3816BR	M3820BR
Length (m)	16,05	19,90
Width with fenders (m)	3,8	3,8
Concrete width (m)	3,5	3,5
Height (m)	1,2	1,2
Weight (t)	31,5	39,3
Net capacity (kN/m^2)	6,1	6,1
Freeboard (m)	0,61	0,61
Strength of joint (kN)	2x812	2x812
Joint gap (mm)	90	90

LAYOUT

M3816BRS

M3820BRS

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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Revision date: 15.01.2008

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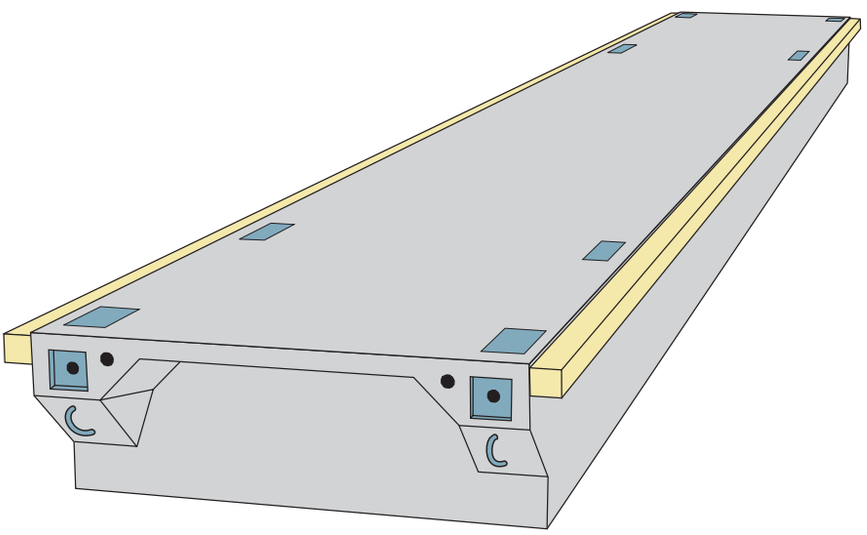
MARINETEK
More than Surface

Breakwater 2700

The **Breakwater 2700** is very strong and has a high load bearing capacity making it particularly well suited as a mooring pontoon or breakwater in semi-sheltered marinas. The floats are connected by flexible rubber and steel joints making the construction very strong and ensuring a long and maintenance free service life. The units can be moored by piles, chain of Seaflex.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

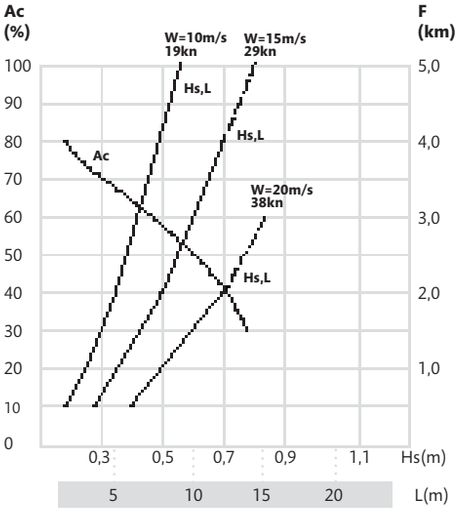
Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, fixing rails, cable ducts and fenders (timber or plastic)

WAVE ATTENUATION CAPACITY

Sheltered sea conditions

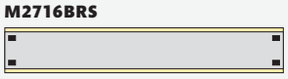


F=Effective fetch lenght. **W**=Wind velocity.
L=Wave length. **Hs**=Significant wave height.
Ac=Wave attenuation capacity.

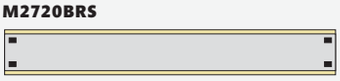
FLOATS	M2716BR	M2720BR
Length (m)	16,05	19,90
Width with fenders (m)	2,7	2,7
Concrete width (m)	2,4	2,4
Height (m)	1,0	1,0
Weight (t)	17,4	21,8
Net capacity (kN/m^2)	5,3	5,3
Freeboard (m)	0,53	0,53
Strength of joint (kN)	2x448	2x448
Joint gap (mm)	90	90

LAYOUT

M2716BRS



M2720BRS



Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

Marinetek operates a policy of continuous development and reserves the right to change specifications without notice.

Revision date: 15.01.2008

MARINETEK GROUP

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MARINETEK
More than Surface

Conduct Pontoons 2400, 2900

The Conduct pontoon is a concrete/steel composite construction that is specially designed for installation in remote locations. After manufacture the galvanised steel frame can be easily transported in sections and assembled on location. The concrete is then poured on site to create the deck. The flotation system is also designed to minimise cost and simplify logistics. Utilities can be installed inside plastic ducts that run beneath the deck. Finger pontoons, cleats, pile guides, and Seaflex moorings are designed to be simply attached to the rectangular hollow section (RHS) side frame. The Conduct offers the design flexibility associated with conventional framed systems, plus the exceptional stability and anti-slip characteristics of concrete pontoons.

TECHNICAL DATA

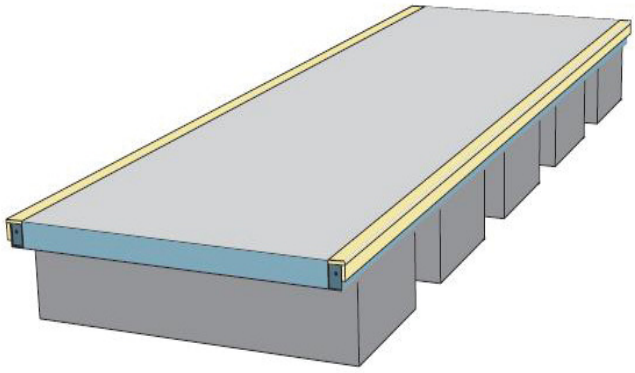
Structure: Fully welded steel frame, galvanised to EN ISO 1461

Deck: 45-55 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Reinforcement: Fully hot dip galvanised steel

Floats: Closed cell expanded polystyrene block density 15 kg/m^3 protected with epoxy coating or other Marinetek floats

Fingers: Marinetek standard Fingers or concrete deck Conduct Fingers



STANDARD PONTOON ELEMENTS	U2406CD	U2409CD	U2906CD	U2909CD	U2406CDH	U2409CDH	U2906CDH	U2909CDH
Deck length (m)	6,0	9,0	6,0	9,0	6,0	9,0	6,0	9,0
Width (m)	2,4	2,4	2,9	2,9	2,4	2,4	2,9	2,9
Unit weight (t)	2,97	4,45	3,46	5,18	2,97	4,45	3,46	5,18
Net capacity (kN/m^2)	2,0	2,0	2,0	2,0	2,5	2,5	2,5	2,5
Freeboard (m)	0,5	0,5	0,5	0,5	0,6	0,6	0,6	0,6
Joint gap (mm)	25	25	25	25	25	25	25	25

Two standard widths are available, but the design enables different widths in 0,25 m intervals (2,15 m, 2,65 m, 3,15 m).

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

Marinetek operates a policy of continuous development and reserves the right to change specifications without notice.

Revision date: 14.11.2008

ISO 14001 DNV CERTIFIED ORGANISATION

ISO 9001 DNV CERTIFIED ORGANISATION

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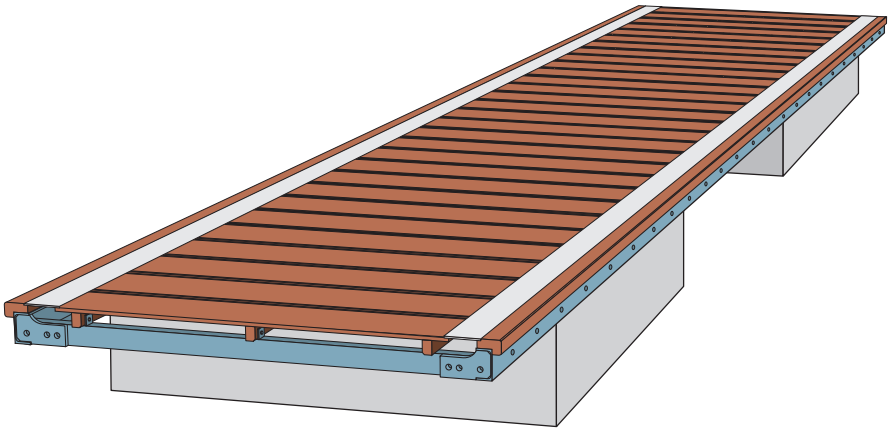
MARINETEK
More than Surface

Steel Pontoons 2000, 2400

Marinetek **Steel Pontoons** are a modular walkway pontoon system designed for use in marinas. The pontoons are steel structured, fully welded and galvanised. Decking and fendering is in machined hardwood profiles as standard. A range of alternative anti slip and recycled decking materials are also available. Floatation units are provided in concrete as standard. Units are connected with semi flexible rubber bolt joints. Mooring can be by piles, chain or Seaflex.



STANDARD PONTOON ELEMENTS	H2012ST	H2012STH	H2410ST	H2410STH
Deck length (m)	11,98	11,98	9,98	9,98
Deck width (m)	2,0	2,0	2,4	2,4
Floats	2 x M200	3 x M200	2 x M200	2 x M300
Deck weight (t)	1,4	1,4	1,4	1,4
Net capacity (kN/m^2)	1,2	2,1	1,2	2,3
Net capacity between ducts (kN/m^2)	1,7	3,0	1,5	2,8
Freeboard (m)	0,50	0,55	0,50	0,55
Joint gap (mm)	25	25	25	25

In addition to the above mentioned standard elements also special dimensions are available. Further economic float options available includes welded PVC coated polystyrene e-floats. Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

Marinetek operates a policy of continuous development and reserves the right to change specifications without notice.

Revision date: 15.01.2008

TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

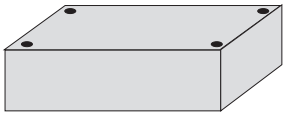
Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Fully hot dip galvanised or stainless steel

Frame: Hot rolled steel, galvanised to EN ISO 1461

Deck: Hardwood 21x145 mm machined deck board with anti slip profile

Optional accessories: Cable ducts, different deck options, mooring cleats



Concrete float M200

Dimensions: 2000x2380x700 mm
Weight: 1 180 kg
Capacity: 2 150 kg
Iceresistant

Concrete float M300

Dimensions: 3000x2380x700 mm
Weight: 1 600 kg
Capacity: 3 400 kg
Iceresistant

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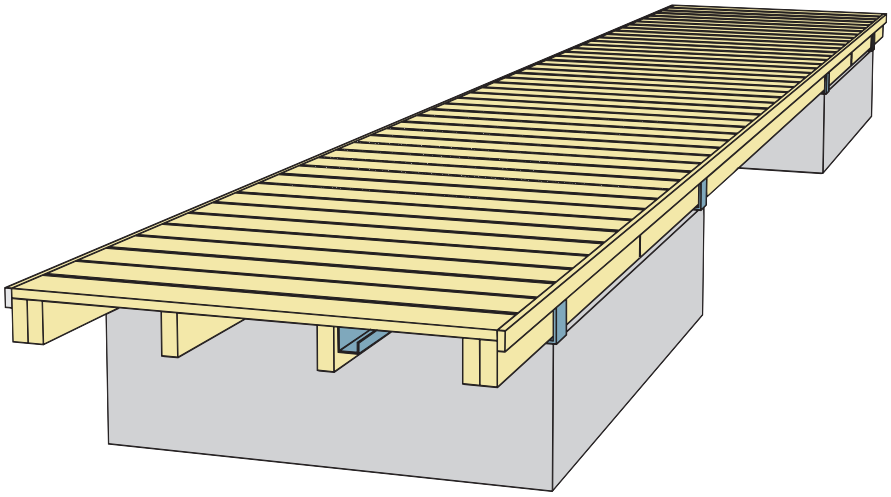
MARINETEK
More than Surface

System Pontoons 242, 300

System 242 and **300** designs comprise timber decked pontoons with concrete floats, designed for marina use. The high bearing capacity and strong construction of the pontoons make them suitable for use with longer mooring fingers. The deck elements are joined rigidly on the floats. The structure makes the pontoons easy to modify, strong, stable and long lasting.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

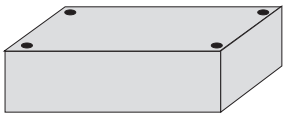
Reinforcement: Fully hot dip galvanised steel

Timber: Pressure impregnated, graded pine

Standard frame: 75x200 mm, no. 6

Decking: Planed and grooved, 34x120 mm

Optional accessories: Cable tray, timber fenders



Concrete float M300

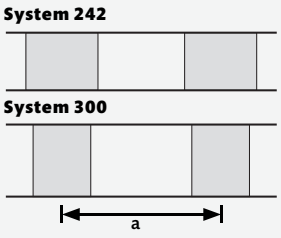
Dimensions:	3000x2380x700 mm
Weight:	1 600 kg
Capacity:	3 450 kg
Iceresistant	

DIMENSIONS WITH CAPACITIES

	System 242 Pontoon width 2,4 m			System 300 Pontoon width 3,0 m		
a (m)	Total capacity (kN/m^2)	Net capacity (kN/m^2)	Freeboard (m)	Total capacity (kN/m^2)	Net capacity (kN/m^2)	Freeboard (m)
4,8	2,95	2,50	0,60	2,35	1,90	0,60
7,0	2,00	1,55	0,59	1,60	1,20	0,59
7,3	1,95	1,50	0,59	1,55	1,10	0,59
8,0	1,75	1,30	0,58	1,45	1,00	0,58

In addition to the above mentioned sizes, elements of special dimensions are also available.

LAYOUT



Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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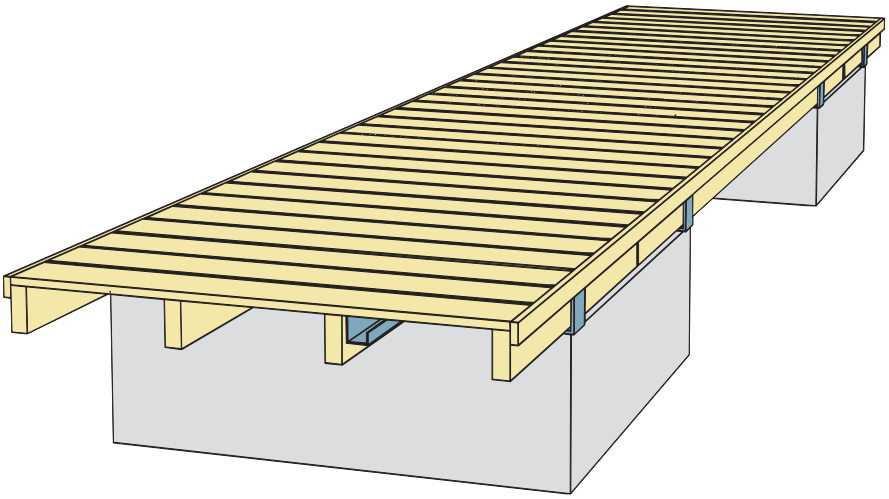
MARINETEK
More than Surface

System Pontoons 200, 241

System 200 and **241** are inexpensive timber decked concrete pontoons, designed for use as both mooring and general purpose pontoons. The deck elements are joined rigidly on the floats. The structure makes the pontoons easy to modify, strong, stable and long lasting.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

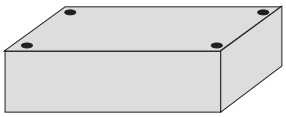
Reinforcement: Fully hot dip galvanised steel

Timber: Pressure impregnated, graded pine

Standard frame: 75x200 mm, no. 4

Decking: Planed and grooved, 28x120 mm

Optional accessories: Cable tray, timber fenders



Concrete float M200

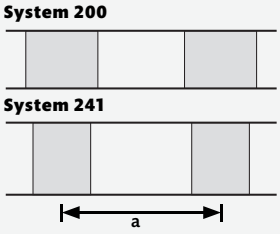
Dimensions:	2000x2380x700 mm
Weight:	1 180 kg
Capacity:	2 150 kg
Iceresistant	

DIMENSIONS WITH CAPACITIES

a (m)	System 200 Pontoon width 2,0 m Total capacity (kN/m^2)	Net capacity (kN/m^2)	Freeboard (m)	System 241 Pontoon width 2,4 m Total capacity (kN/m^2)	Net capacity (kN/m^2)	Freeboard (m)
3,8	2,85	2,50	0,60	2,35	2,00	0,60
4,8	2,25	1,90	0,59	1,85	1,50	0,59
6,0	1,80	1,45	0,58	1,50	1,15	0,58
6,5	1,65	1,30	0,57	1,40	1,00	0,56

In addition to the above mentioned sizes, elements of special dimensions are also available.

LAYOUT



Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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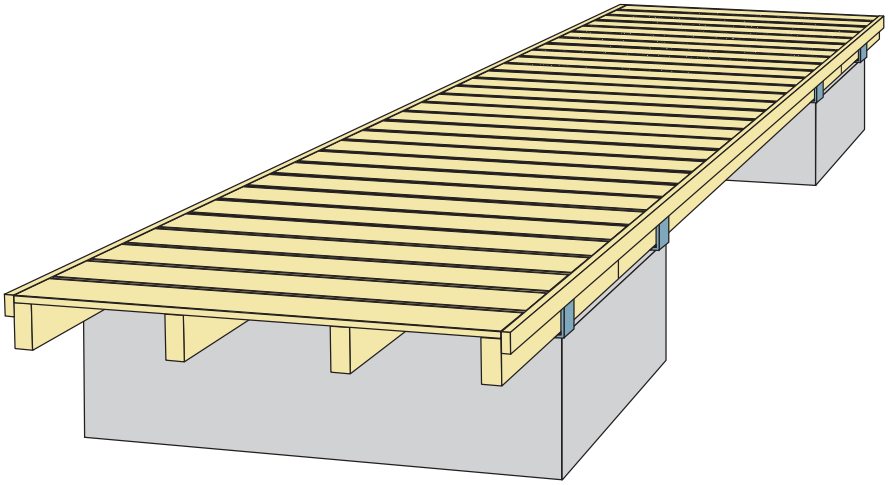
MARINETEK
More than Surface

System Pontoon 240

System 240 is a light and inexpensive timber decked concrete pontoon, designed for use as both a mooring of small boats and private use pontoon. The deck elements are joined rigidly on the floats and this continuous frame structure makes the pontoons strong and stable.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

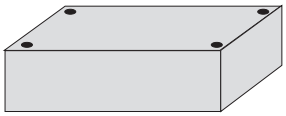
Reinforcement: Fully hot dip galvanised steel

Timber: Pressure impregnated, graded pine

Standard frame: 75x175 mm, no. 2 and 50x175 mm, no. 2

Decking: Planed and grooved, 28x120 mm

Optional accessories: Cable tray, timber fenders



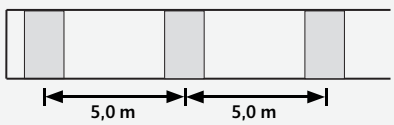
Concrete float M140

Dimensions:	1400x2380x700 mm
Weight:	910 kg
Capacity:	1 420 kg
Iceresistant	

DIMENSION WITH CAPACITY	
System 240 Pontoon width 2,4 m	
Total capacity (kN/m^2)	1,2
Net capacity (kN/m^2)	0,9
Freeboard (m)	0,5

LAYOUT

Standard dimensions



In addition to the above mentioned sizes, elements of special dimensions are also available.

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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MARINETEK
More than Surface

System Pontoons 2400T, 2400TH, 3000T, 3000TH

The **System Pontoons 2400T, 2400TH, 3000T and 3000TH** are plastic tube timber pontoons designed for use as both mooring of small boats and as for general purpose in sheltered locations. The construction is inexpensive, fully modular and light making it easy to transport and simple to install. It also can be used in shallow waters as well as in tidal locations where the sea bed dries out. The elements are connected by steel hinges and moored by chain or piles.

TECHNICAL DATA

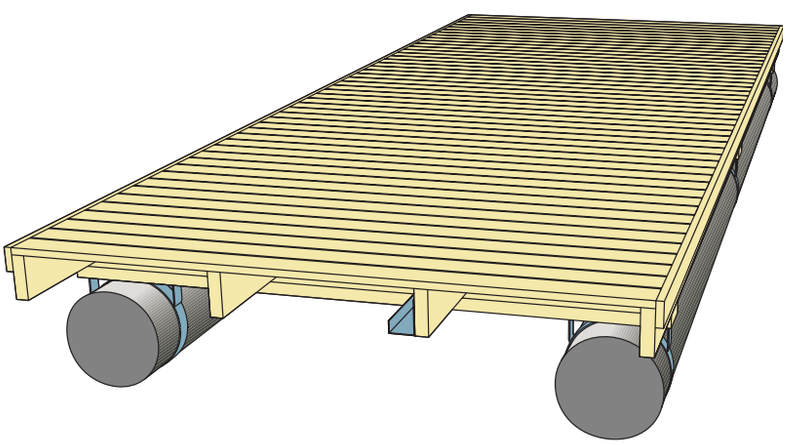
Plastic tube floats: Polyethylene (PEH)

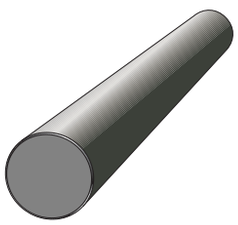
Timber: Pressure impregnated, graded pine

Deck: Planed and grooved, 28x120 mm

Standard features: Fully prefabricated and hinged system

Optional accessories: Cable tray, timber fenders





Plastic tube

Dimensions:	6000 x ø400 mm
Weight:	60 kg
Net capacity:	690 kg

STANDARD PONTOON ELEMENTS	2406T	2406TH	2412T	2412TH	3006T	3006TH	3012T	3012TH
Length (m)	6,2	6,2	12,4	12,4	6,2	6,2	12,4	12,4
Width (m)	2,4	2,4	2,4	2,4	3,0	3,0	3,0	3,0
Plastic tube (no.)	2	4	4	8	2	4	4	8
Weight (kg)	590	710	1180	1420	710	860	1420	1720
Total capacity (kN/m^2)	0,9	1,8	0,9	1,8	0,75	1,5	0,75	1,5
Net capacity (kN/m^2)	0,5	1,4	0,5	1,4	0,35	1,1	0,35	1,1
Freeboard (m)	0,45	0,50	0,45	0,50	0,425	0,475	0,425	0,475

In addition to the above mentioned sizes, elements of special dimensions are also available.

Exact unit weight and freeboard are subject to timber water content and pontoon equipment.

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Revision date: 14.11.2008

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MARINETEK
More than Surface

System Pontoons 1800, 2400

System 1800 and **2400** are modular timber pontoon designs using polyethylene plastic floats. They are designed for use as mooring and general purpose pontoons. The strong wooden frame makes it possible to connect boat booms to the pontoon. The units are connected by flexible rubber bolt joints. The pontoon is easy to transport and simple to assemble.

TECHNICAL DATA

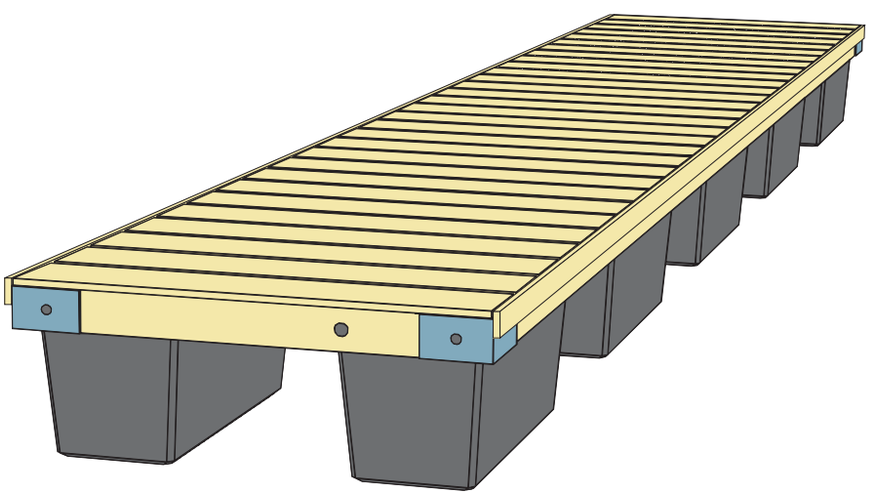
Plastic floats: Shell of polyethylene, core of polystyrene, density 20 kg/m^3

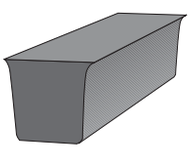
Timber: Pressure impregnated, graded pine

Deck: Planed and grooved, 28x120 mm

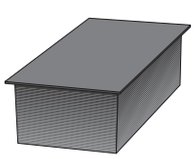
Standard features: Hot dip galvanised steel corner braces

Optional accessories: Cable tray, timber fenders





Plastic float M30
Dimensions: 1040x580x530 mm
Weight: 10 kg
Capacity: 260 kg



Plastic float M15
Dimensions: 1040x580x290 mm
Weight: 7 kg
Capacity: 150 kg

STANDARD PONTOON ELEMENTS	1806P	1806PH	1809PH	2406PL	2406P	2406PH	2409PH	3009PL
Length (m)	6,0	6,0	9,0	6,0	6,0	6,0	9,0	9,0
Width (m)	1,8	1,8	1,8	2,4	2,4	2,4	2,4	3,0
Floats	6 x M30	8 x M30	12 x M30	8 x M15	6 x M30	8 x M30	12 x M30	14xM15
Weight (kg)	440	460	720	550	570	590	880	1 150
Net capacity (kN/m^2)	1,0	1,5	1,5	0,85	0,7	1,0	1,0	0,80
Freeboard (m)	0,50	0,55	0,55	0,30	0,45	0,50	0,50	0,30
Joint gap (mm)	25	25	25	25	25	25	25	25

In addition to the above mentioned sizes, elements of special dimensions are also available.

Exact unit weight and freeboard are subject to timber water content and pontoon equipment.

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MARINETEK
More than Surface

Class 1 Pontoon

Marinetek **Class 1 Pontoon** is the official World Championship pontoon for WPPA Class 1 power boats. The pontoon consists of prefabricated elements with aluminium frame and plastic floats. The deck as standard is wood plastic composite and as option treated soft wood or hardwood. The elements are easy to handle and simple to install and can be connected by flexible rubber bolt joints also cornerwise or sideways.

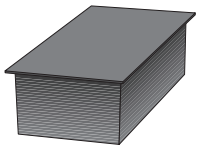
TECHNICAL DATA

Plastic float: Shell of polyethylene, core of polystyrene, density 20 kg/m^3

Frame: Sea aluminium, inner frames impregnated, graded pine

Deck: Wood plastic composite

Optional accessories: Cleats, different deck materials



Plastic float M15

Dimensions:	1040x580x290 mm
Weight:	7 kg
Capacity:	150 kg

STANDARD CLASS 1 PONTOON ELEMENT

Length (m)	**6,5**
Width (m)	**2,2**
Height (m)	**0,47**
Floats M15 (no.)	**12**
Weight (kg)	**500**
Net capacity (kN/m^2)	**0,9**
Freeboard (m)	**0,4**

In addition to standard sizes, units of special dimensions are also available.
Exact unit weight and freeboard are subject to deck material and equipment.

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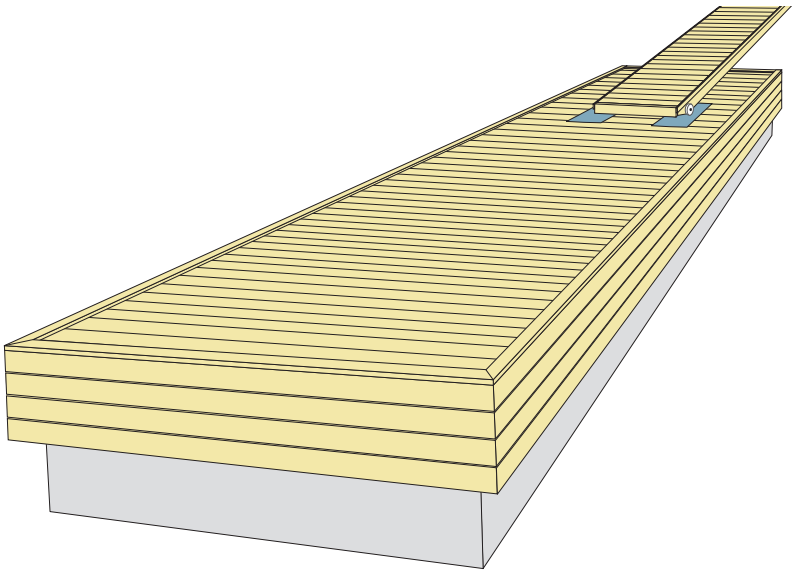
MARINETEK
More than Surface

Heavy Duty Villa Pontoons

Heavy Duty Villa pontoons, **Sea Anemone** and **Sea Lion** are designed to provide high loading capacity, stability and safety. Large single float is made of steel reinforced concrete that quarantees strong pontoon structure and long service life. Timber deck and side panelling are made of treated Finnish pine or optionally of wood plastic composite. Mooring is by chain or Seaflex through the float.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised steel

Timber: Impregnated pine or wood plastic composite

Standard equipment: Wooden deck with side panelling, Seaflex mooring wells

	PONTOONS				FLOATS			
	Sea Anemone 1	Sea Anemone 2	Sea Lion 1	Sea Lion 2	M2408V	M2411V	M3008V	M3011V
Length (m)	8,1	11,1	8,1	11,1	8,0	11,0	8,0	11,0
Width (m)	2,5	2,5	3,1	3,1	-	-	-	-
Concrete width (m)	-	-	-	-	2,38	2,38	2,98	2,98
Height (m)	0,93	0,93	0,93	0,93	-	-	-	-
Concrete height (m)	-	-	-	-	0,7	0,7	0,7	0,7
Weight (t)	6,7	9,5	8,1	11,4	5,7	8,2	7,0	9,9
Total bearing capacity (t)	6,7	8,9	8,3	11,4	7,6	10,2	9,7	13,0
Net capacity (kN/m^2)	3,2	3,2	3,3	3,3	4,0	4,0	4,0	4,0
Freeboard (m)	0,58	0,58	0,58	0,58	0,4	0,4	0,4	0,4

Exact unit weight and freeboard are subject to water content of the wood, equipment and mooring methods.

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MARINETEK
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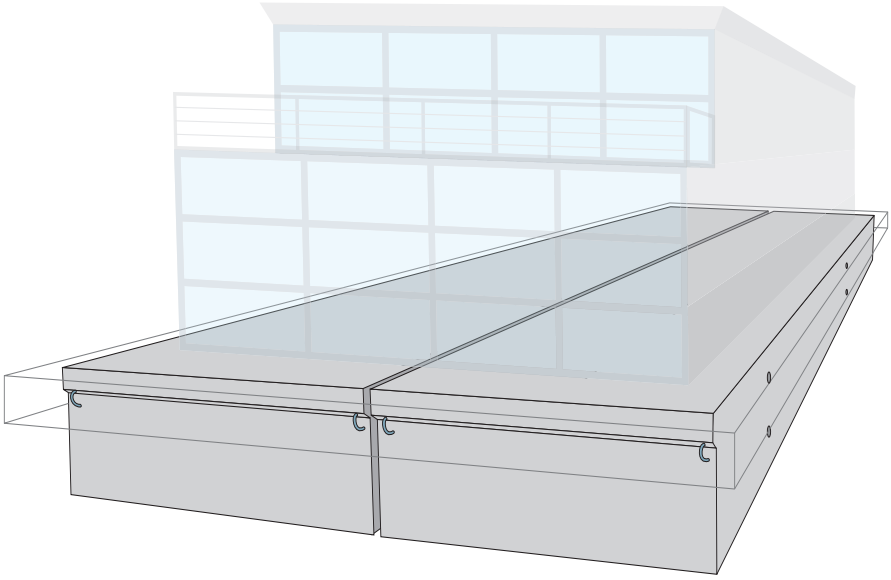
House Pontoons

The **House Pontoons** have been designed to be used for floating service buildings in marinas and for the construction of permanent homes for year-round use. The floats are fixed sideways in pairs or by multi-fixing solution making bigger pontoon areas possible. The pontoons have been designed for an extra long service life. Integrated electricity, water and sawerage systems are available.



TECHNICAL DATA

Concrete strength: 45 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Bottom coating, cast in sockets, fenders, ducts etc.

FLOATS	M3015HP	M3015HPH	M3016HPH	M3516HPH	M3520HPH	M4016HPH	M4020HPH
Length (m)	14,92	14,92	15,92	15,92	19,92	15,92	19,92
Width (m)	3,0	3,0	3,0	3,5	3,5	4,0	4,0
Height (m)	1,0	1,2	1,2	1,2	1,2	1,2	1,2
Weight (t)	17,6	20,3	21,6	25,2	31,7	28,9	36,2
Total bearing capacity (t)	26,4	32,6	34,8	40,6	51,0	46,4	58,3
Net capacity (kN/m^2)	6,0	7,4	7,4	7,4	7,4	7,4	7,4
Freeboard (m)	0,6	0,74	0,74	0,74	0,74	0,74	0,74
Side connecting bars	4 x M30	4 x M30	4 x M30	4 x M36	4 x M36	4 x M36	4 x M36

The freeboard with multi-fixing solution is 10-20 mm lower depending on the model. The above shown capacities are approximate subject to changes. Customised house pontoons are also available to order.

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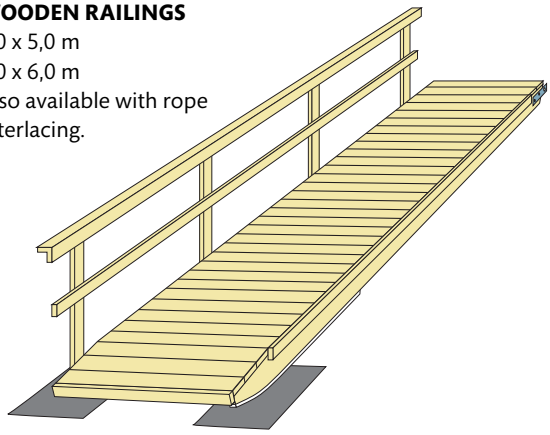
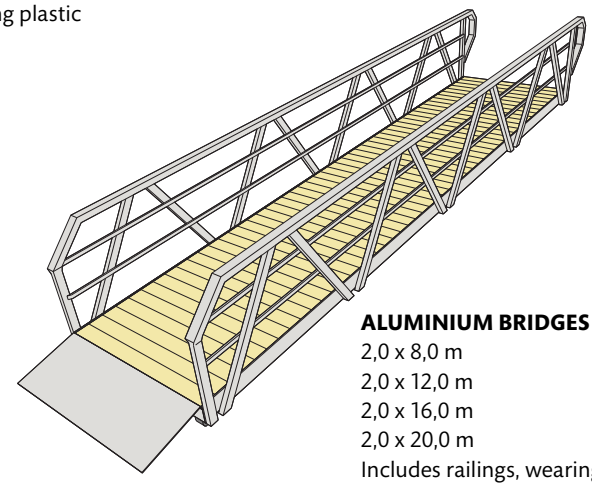
Access Bridges

WOODEN RAILINGS
1,0 x 5,0 m
1,0 x 6,0 m
Also available with rope interlacing.

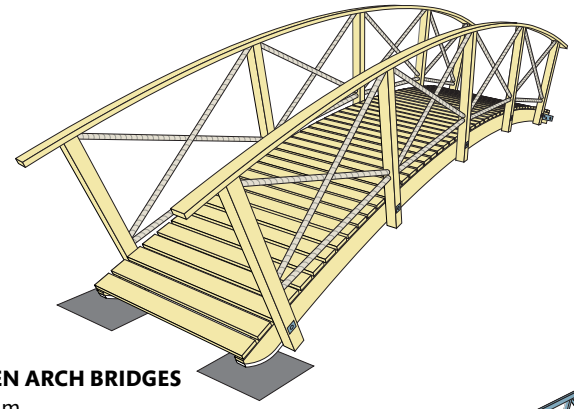


WOODEN BRIDGES
1,3 x 4,0 m
1,3 x 5,0 m
1,3 x 6,0 m
1,9 x 5,0 m
1,9 x 6,0 m
Includes wearing plastic plates.

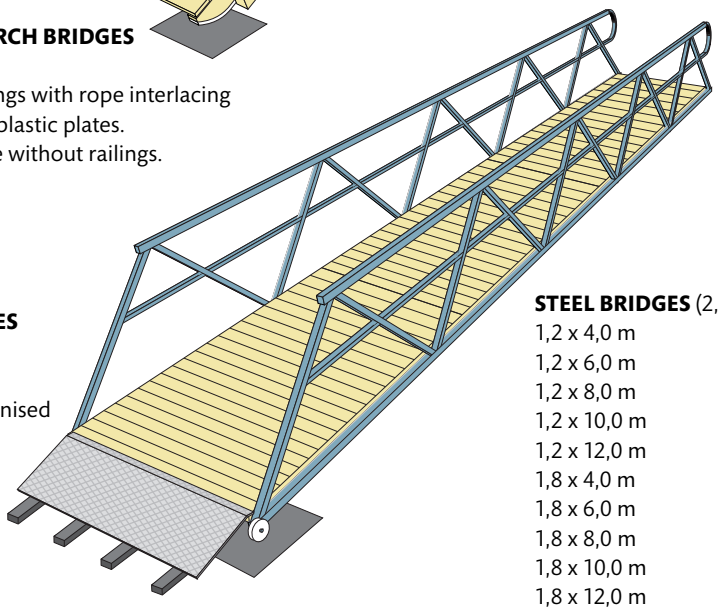
WOODEN HINGED BRIDGES
1,3 x 4,0 m
1,3 x 5,0 m



ALUMINIUM BRIDGES
2,0 x 8,0 m
2,0 x 12,0 m
2,0 x 16,0 m
2,0 x 20,0 m
Includes railings, wearing plastic plates and slope plate.
Aluminium frame.
Deck: Impregnated pine as standard, hardwood and wood plastic composite as options.

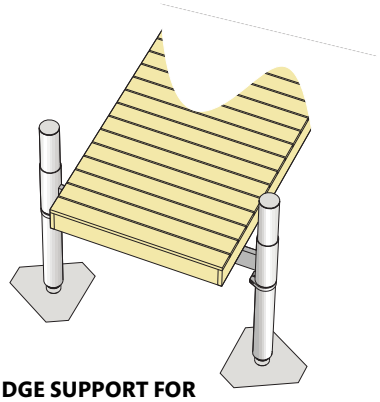


WOODEN ARCH BRIDGES
1,2 x 5,0 m
Includes railings with rope interlacing and wearing plastic plates.
Also available without railings.



SLOPE PLATES
1,2 x 0,5 m
1,8 x 0,5 m
Hot dip galvanised steel.

STEEL BRIDGES (2,5 kN/m²)
1,2 x 4,0 m
1,2 x 6,0 m
1,2 x 8,0 m
1,2 x 10,0 m
1,2 x 12,0 m
1,8 x 4,0 m
1,8 x 6,0 m
1,8 x 8,0 m
1,8 x 10,0 m
1,8 x 12,0 m
Includes railings, wearing plastic plates and slope plate.
Hot dip galvanised steel frame.
Deck: Impregnated pine as standard, hardwood and wood plastic composite as options.



BRIDGE SUPPORT FOR SHALLOW SEA BED
Deck level adjustable from 0,5 m to 2,0 m
Aluminium (sea water proof)

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MARINETEK
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Super Yacht Fingers

The **Super Yacht Fingers** complement the Premier and Super Yacht pontoons and provide unprecendented standards of finger berthing for large boat marinas. Modular design of concrete fingers represents the latest technology in pontoon construction. Updated construction of fingers is very stabile with a high loading capacity and long service life. The end mooring of F14000 and F16000 is made by piles. Also a special design for Seaflex mooring is available.

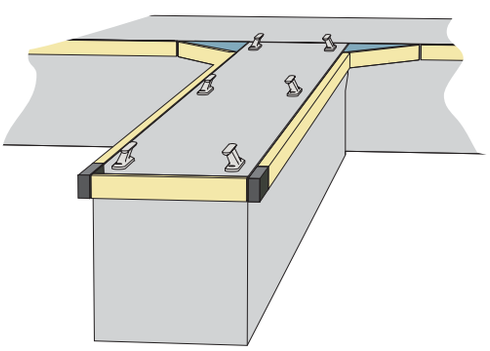
TECHNICAL DATA

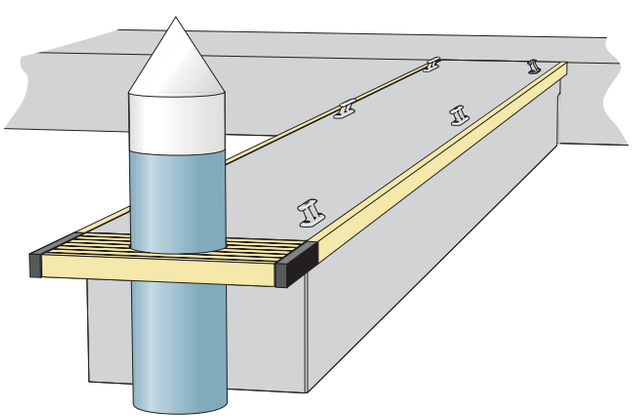
Concrete strength: 45-55 N/mm^2 watertight, steel reinforced plastic fibre concrete. Exposure class according to European EN 206-1 standard.

Core: Expanded polystyrene, density 15 kg/m^3

Reinforcement: Partly or fully hot dip galvanised or stainless steel

Optional accessories: Concrete coatings, wooden deck, cable duct and plastic or timber fenders





FINGERS	F12000SY	F14000SY	F16000SY	F12000SYH	F14000SYH	F16000SYH
Length (m)	11,8	13,8	15,8	11,8	13,8	15,8
Concrete width (m)	1,6	1,6	1,6	1,8	1,8	1,8
Height (m)	1,0	1,0	1,0	1,2	1,2	1,2
Weight (t)	8,4	9,8	11,3	11,6	13,5	15,5
Net capacity (kN/m^2)	5,5	5,5	5,5	6,5	6,5	6,5
Freeboard (m)	0,55	0,55	0,55	0,65	0,65	0,65
Joint gap (mm)	35	35/90*	35/90*	35	35/90*	35/90*

* With Seaflex mooring

Exact unit weight and freeboard are subject to detailed specification of the unit, equipment and mooring methods.

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MARINETEK
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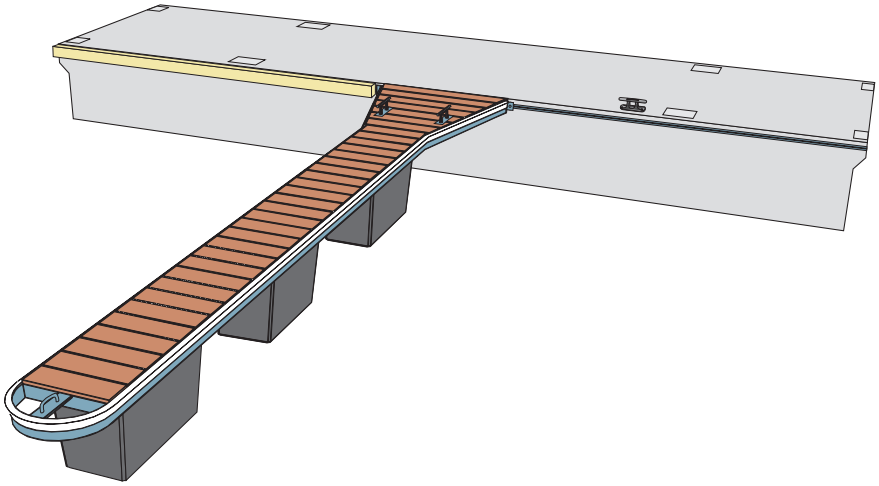
Mooring fingers

The Marinetek **Mooring Fingers** are very strong making them ideal for demanding applications. The fingers have a high load bearing capacity and they are very stable. The standard versions are equipped with all-round PVC fenders and mooring points. The fingers are fitted to pontoon by rubber bolt joints and adapters to match with different frame materials and designs.



TECHNICAL DATA

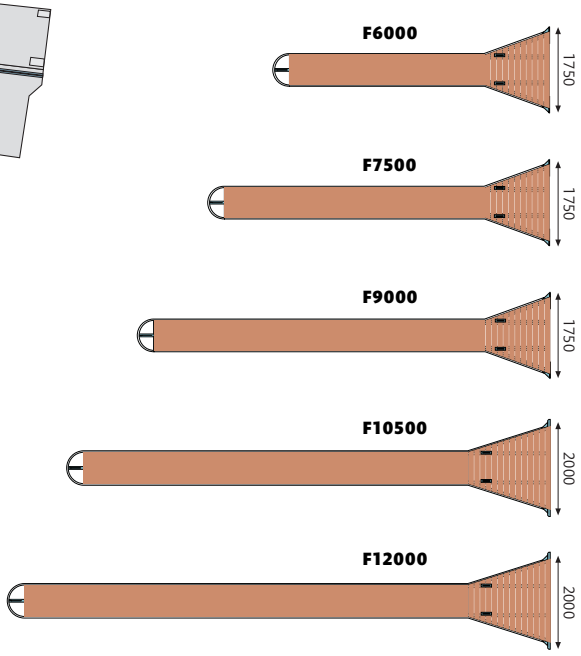
Frame: Hot rolled steel, galvanised to EN ISO 1461

Float: Rotation moulded polyethylene float M31 (300 kg)

Decking: Treated pine, hardwood or wood plastic composite

Fender: PVC plastic (wood plastic composite)

Fittings: Hot dip galvanised steel or aluminium



STANDARD MODELS	F6000	F7500	F9000	F10500	F12000
Length (m)	6,0	7,5	9,0	10,5	12,0
Width (m)	0,7	0,7	0,7	0,75	0,75
Total capacity (kg)	600	600	900	1200	1500

Standard Finger models suit best for the pontoon types with higher freeboard like PE, SY and System 242/300. For the use of lower freeboard pontoon models (0,5 m or less) the lower float version M31L is used. Fingers of special lengths and models are also available.

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MARINETEK
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Boat Booms

The Marinetek light **Boat Booms** are inexpensive and designed for easy and safe mooring of small boats in marinas. The height of the floats is adjustable making the booms suitable for all freeboards. The standard booms have a plastic end fender and a finxing bar at the top end. The fingers are fitted to the pontoon by hinges or adapters to match with different frame materials and designs.

TECHNICAL DATA

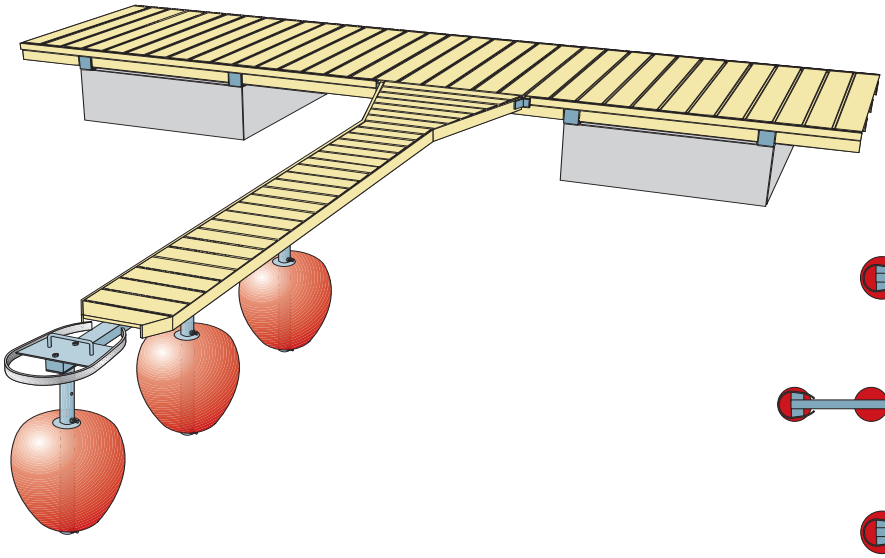
Frame: Hot rolled steel, galvanised to EN ISO 1461

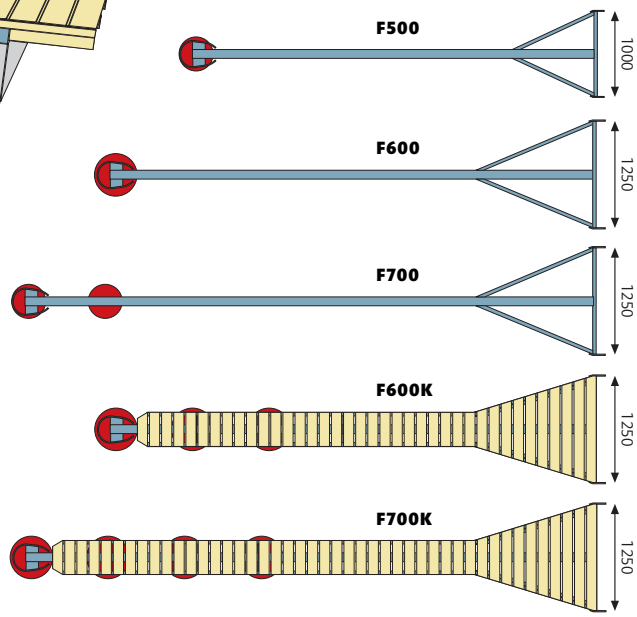
Float: Rotation moulded polyethylene float 45 l or 75 l

Decking: Impregnated pine

End fender: PVC plastic

Fittings: Hot dip galvanised steel





STANDARD MODELS	F500	F600	F700	F600K	F700K
Length (m)	5,0	6,0	7,0	6,0	7,0
Width (m)	0,25	0,25	0,25	0,4	0,4
Total capacity (kg)	45	75	90	225	300

Fingers of special lengths and models are also available.

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MARINETEK
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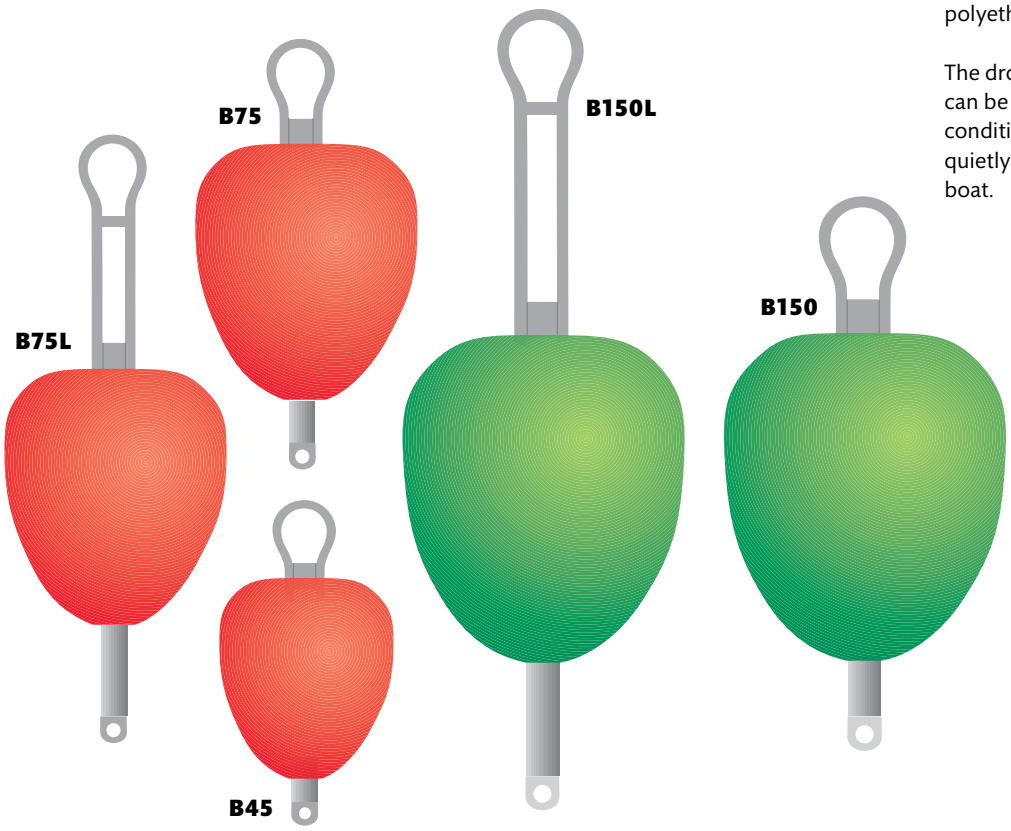
Buoys

Marinetek **Buoys** are very strong, unsinkable and easy to anchor. the product range includes high bar rear anchorage buoys and low bar open water buoys. The 45 l, 75 l and 150 l buoys are of the highest quality and designed according to the boat anchorage regulations to enable safe anchorage for small and large boats.



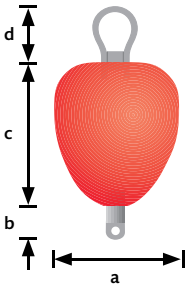
TECHNICAL DATA

Red is the standard production colour for the buoys, but other colours can be provided if required.

The buoys have a strong hot dip galvanised steel bar and a rotation moulded polyethylene plastic shell filled with foam.

The drop shape of the buoys ensures that they can be used year around and in all weather conditions. The are service free and operate quietly offering the best protection for your boat.

DIMENSIONS (mm)	B45	B45L	B75	B75L	B150	B150L
a	410	410	480	480	620	620
b	140	250	150	260	200	300
c	500	500	600	600	750	750
d	200	400	250	500	300	700



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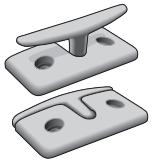
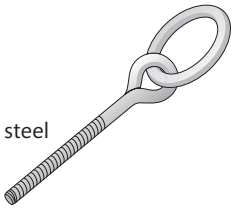
Fittings

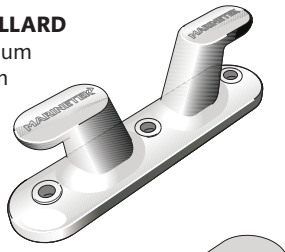
CLEAT TYPE 1
Base: 90 x 150 mm
Height: 60 mm
Fixing: no. 2 M8
Aluminium



BOAT RING
12 x 80 mm
12 x 120 mm
12 x 200 mm
16 x 200 mm
16 x 260 mm
Hot dip galvanised steel

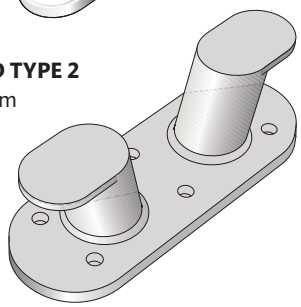


SUPER YACHT BOLLARD
61003000 Aluminium
Base: 108 x 465 mm
Height: 157 mm
Fixing: no. 3 M20
Strength: 75 kN

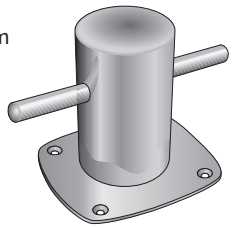


CLEAT TYPE 2
Base: 60 x 220 mm
Height: 95 mm
Fixing: no. 2 M12
Aluminium
Strength: 25 kN

YACHT BOLLARD TYPE 2
Base: 170 x 495 mm
Height: 152 mm
Fixing: no. 6 M20
Stainless steel
Strength: 100 kN

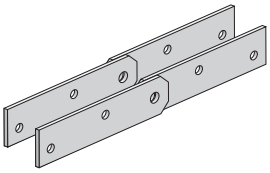


BOLLARD TYPE 1
Base: 180 x 180 mm
Height: 185 mm
Fixing: no. 4 M10
Stainless steel
Strength: 25 kN

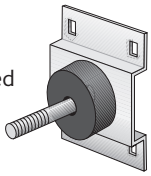


CLEAT TYPE 3
Base: 88 x 444 mm
Height: 152 mm
Fixing: no. 3 M16
Aluminium
Strength: 50 kN

HINGE STEEL TYPE 1
6 x 60 mm
Fixing: M12
Hinge pin: M16
Hot dip galvanised

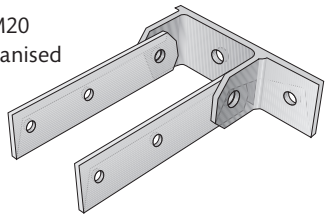


BOX HINGE
Base: 160 x 150 mm
Fixing: no. 4 M12
Hinge pin: M16
Hot dip galvanised

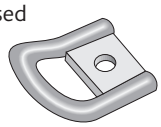


HINGE STEEL TYPE 2
8 x 80 mm
Fixing: M16
Hinge pin: M20
Hot dip galvanised

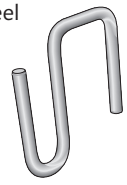
T-HINGE STEEL
Fixing: M16
Hinge pin: M20
Hot dip galvanised



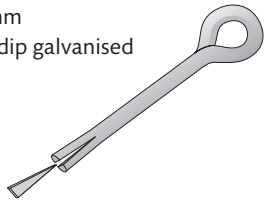
ANCHORING RING TYPE 2 / TYPE 3
18 mm / 13 mm
Fixing: M20 / M16
Hot dip galvanised



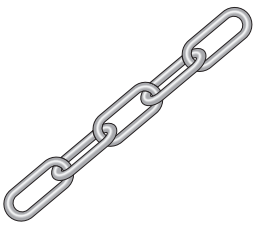
ANCHORING HOOK
9 mm
Stainless steel



ANCHORING EYE FOR ROCK
20 mm
22 mm
Hot dip galvanised

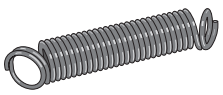


CHAIN
10 mm, 13 mm, 16 mm,
20 mm, 22 mm, 25 mm
Hot dip galvanised



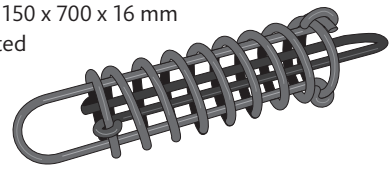
SHACKLE
12 mm, 16 mm, 20 mm,
22 mm, 24 mm, 28 mm
Hot dip galvanised

STEEL SPRING TYPE 1
Size: 82 x 420 x 12 mm
Galvanised



STEEL SPRING TYPE 2
Size: 84 x 450 x 12 mm
Painted

STEEL SPRING TYPE 3
Size: 150 x 700 x 16 mm
Painted



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MARINETEK
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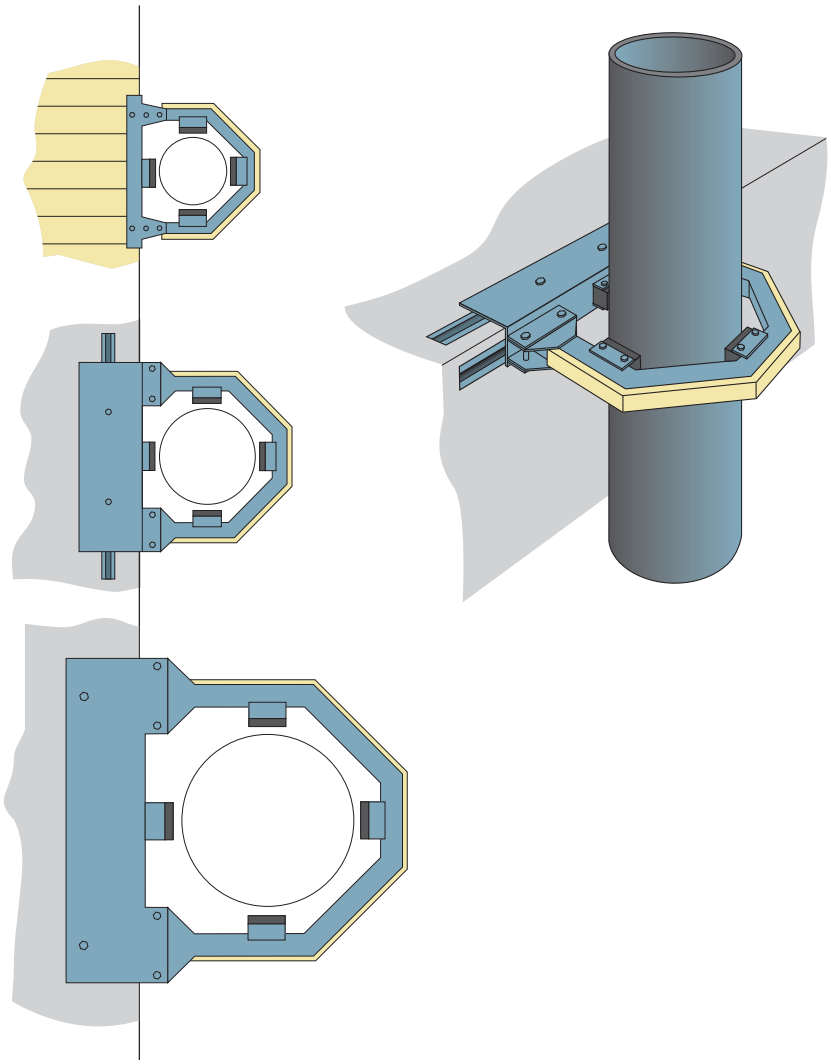
Pile Guides

Marinetek standard **Pile Guides** have been designed for mooring all types of Marinetek pontoons and breakwaters. Every guide has a strong welded and hot dip galvanised steel structure, low friction polyethylene wearing blocks and wooden fendering.



TECHNICAL DATA

G200
The pile guide G200 has been designed for timber pontoons and for piles of 305-356 mm diameters. The design pile load is 20 kN.

G400
The pile guide G400 has been designed for Heavy Duty Pontoons and for piles of 406-508 mm diameters. The design pile load is 40 kN.

G700
The pile guide G700 is the strongest standard product and has been designed for biggest Heavy Duty Pontoons and Breakwaters and for piles of 762-920 mm diameters. The design load is 70 kN.

In addition to the standard sizes, units of special dimensions are also available.

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MARINETEK
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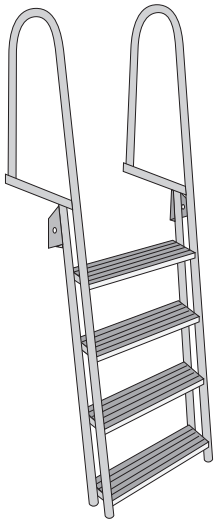
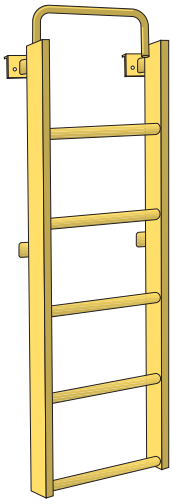
Safety Equipment

SWIMMING LADDER
Type 1: 4 aluminium steps
Type 2: 6 aluminium steps
Frame: Hot dip galvanised steel

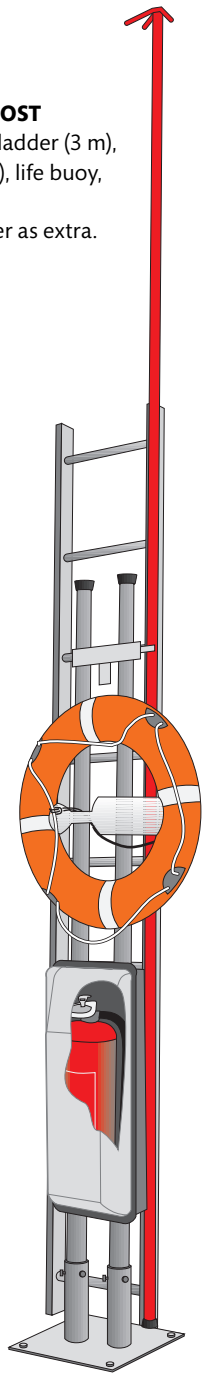


SWIMMING LADDER
Type 1: 4 hardwood steps
Type 2: 6 hardwood steps
Type 3: 8 hardwood steps
Frame: Stainless steel (A4)

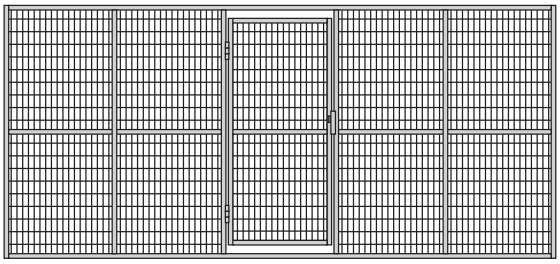
SAFETY LADDER
Height: 1,7 m
Width: 0,53 m
Hot dip galvanised with yellow epoxy coating



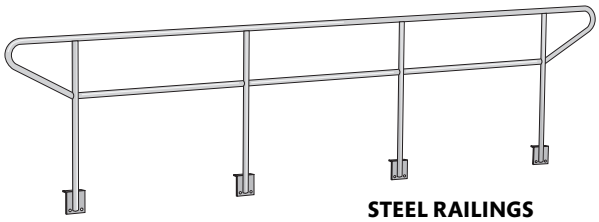
LIFE SAVING POST
Post, pedestal, ladder (3 m), boat hook (4 m), life buoy, throwing line.
Fire extinguisher as extra.



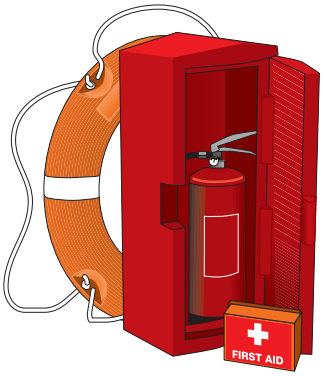
S.O.S BOLLARD
Light, life buoy, line (10 m),
fire extinguisher (2 kg),
first aid kit
Height: 1,15 m
Colour: red



SECURITY GATE
Type 1: 3,6 x 2,2 m
Type 2: 4,8 x 2,2 m
Hot dip galvanised steel
(lock not included)



STEEL RAILINGS
Type 1: Length 5,0 m
Type 2: Length 6,0 m
Height: 1,0 m
Hot dip galvanised steel



S.O.S STATION
Life buoy, line (10 m),
fire extinguisher (6 kg),
first aid kit
Height: 0,75 m
Colour: red

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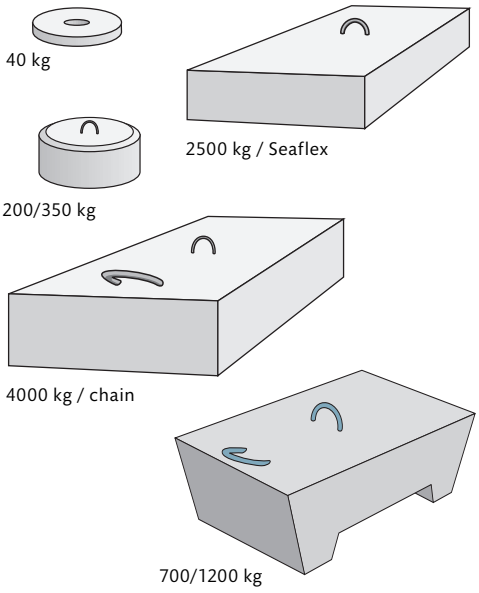
MARINETEK
More than Surface

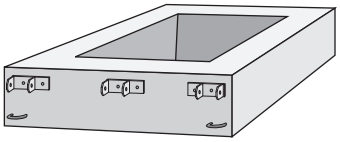
Concrete products

SINKERS



CHAIN MOORING		SEAFLEX MOORING	
40 kg			
200 kg	hot dip galvanised bar 16 mm		
350 kg	hot dip galvanised bar 16 mm	1200 kg	A2 bar 20 mm, rope 18 mm
700 kg	hot dip galvanised bar 25 mm	2500 kg	A2 bar 20 mm, rope 18 mm
1200 kg	hot dip galvanised bar 25 mm	3750 kg	A2 bar 20 mm, rope 24 mm
2000 kg	hot dip galvanised bar 25 mm	5000 kg	A2 bar 20 mm, rope 24 mm
2500 kg	hot dip galvanised bar 25 mm	6250 kg	A2 bar 20 mm, rope 32 mm
3000 kg	hot dip galvanised bar 32 mm	7500 kg	A2 bar 25 mm, rope 32 mm
4000 kg	hot dip galvanised bar 32 mm	10000 kg	A2 bar 25 mm, rope 32 mm
5000 kg	hot dip galvanised bar 32 mm	12500 kg	A2 bar 25 mm, rope 32 mm

SHORE SUPPORT ELEMENTS



MARINA PONTOONS		VILLA PONTOONS	
1500x2000x400 mm 1600 kg		**1300x1200x300 mm 600 kg**	
Type 1	timber bridges, 1,3 x 4,0-5,0 m	Type 1	timber bridges
Type 2	timber bridges, 1,3 x 6,0 m	Type 2	steel bridges
Type 3	timber bridges, 1,9 x 5,0-6,0 m		
Type 4	steel bridges, 1,2 x 4,0-12,0 m		
Type 5	steel bridges, 1,8 x 4,0-12,0 m		

RAMP ELEMENT

ELEMENT	
Dimensions	2400x3500x150 mm
Weight	2960 kg
Permitted wheel load	50 kN
Permitted axle load	100 kN

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