

Top Marine

Floating Marina Installations



Heavy Duty Pontoon



Heavy Duty Pontoon



CHAIN ANCHORING SYSTEM

- The strong and robust anchoring shafts are connected to reinforced concrete forming a strong and stable fixing system for the pontoon;
- Simple and user friendly chain locker plate.

HDP CONNECTING SET 800KN

- Silent flexible rubber bolted joints. Bolt M48, property class 8.8 bolts with lock nuts.

HEAVY DUTY PONTOON

- Hydrotechnical fiber reinforced concrete C40/ 50, watertight W6, environment class XS2, frost resistance XF4 and KK4 according to EN 206-1;
- Reinforcement 6mm fully hot dip galvanized C4 according to ISO 1461 standard;
- Expanded polystyrene: density 19kg/m³, strenght $\geq 100\text{kPa}$, water absorption $\leq 3\%$.

SOS PEDESTAL

- Ladder;
- Life buoy with throw line;
- Hook;
- Fire extinguisher and cabinet as extra.

SAFETY LADDER

SERVICE PEDESTAL

- Electricity and water supply for boats;
- Lighting for the floating pontoon.

GANGWAY

- Metal gangway up to 12m;
- Timber gangway up to 6m.

PILE ANCHORING SYSTEM 40KN

- An alternative solution for chain mooring;
- Has been designed for piles $\varnothing 400\text{-}500\text{mm}$;
- The design pile load is 40 kN;
- Strong hot dip galvanized steel structure;
- Flexible rubber bolted joints

TIMBER DECKING

- Impregnated softwood anti-slip decking 28x120mm.

BOAT BOOM

- Boat Booms with hinge connection;
- With or without timber decking.

TIMBER FENDER

- Planed timber fender 95x95 mm or 95x145 mm or 145x145 mm or 70x195 mm.

MOORING FINGER

- Mooring Fingers with rubber connection.

FINGER CONNECTING RAIL

- Insures flexible and strong connection between concrete pontoon and mooring fingers;
- Finger position are horizontally adjustable.

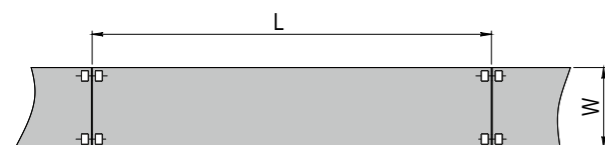
MOORING BOLLARD

- The in-moulded T-bollard geometrical construction ensures better distribution of the internal forces.

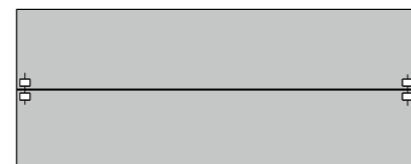
SERVICE DUCTS

- Inside concrete, not visible;
- Can be installed on both sides or in the middle;
- Duct diameter 110 mm or 160 mm.

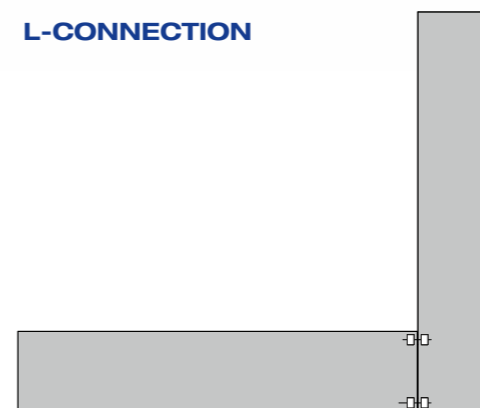
END CONNECTION



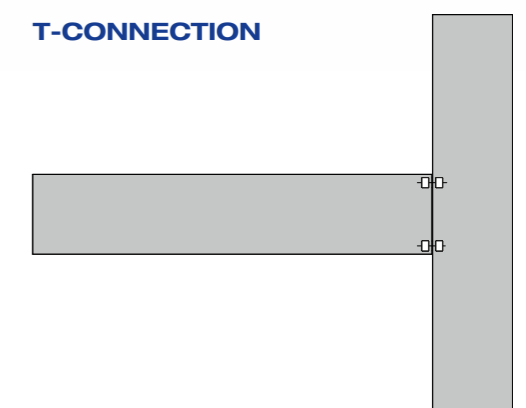
SIDE CONNECTION



L-CONNECTION



T-CONNECTION



Heavy Duty Pontoon

Heavy Duty Pontoon	High-stability, strong, maintenance free, for year-round use, long service life.
Intended use	Floating landing stages and floating bridges. As breakwaters, for floating houses and for other marina structures.
Connection options	End connection, side connection, L- connection, T-connection.
Structural design	Hydrotechnical fiber reinforced concrete with EPS inside, heavy-duty rubber-bolt joints.
Anchoring system	Anchoring by chain or elastic rope. Anchoring by piles.
Accessories	Timber decking, fenders, finger connection rails, mooring fingers, boat booms, mooring bollards, service ducts, safety equipment.

Technical Data of the Heavy Duty Pontoon

Item code		08 10 00	08 12 00	08 14 00	08 20 00	08 22 00	08 24 00	08 30 00	08 32 00	08 40 00	08 42 00	08 42 00	08 44 00	08 50 00	08 52 00	08 54 00
Dimensions (m)	Length	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	18.0	20.0	20.0	20.0
	Concrete width	2.4	3.16	4.16	2.4	3.16	4.16	2.40	3.16	4.16	2.40	3.16	4.16	2.40	3.16	4.16
	Overall width	2.7	3.5	4.5	2.7	3.5	4.5	2.7	3.5	4.5	2.7	3.5	4.5	2.7	3.5	4.5
	Height	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Freeboard (m)		0.49	0.54	0.58	0.54	0.58	0.62	0.56	0.61	0.64	0.58	0.62	0.65	0.58	0.63	0.66
Designed load capacities (kN/m ²)		4.7	5.1	5.4	5.1	5.5	5.9	5.4	5.8	6.1	5.6	6.0	6.3	5.6	6.0	6.3
Designed load capacities (tons)		10.1	14.6	20.4	15.0	21.3	29.7	19.7	27.9	38.8	24.5	34.6	47.9	27.5	38.8	53.7
Weight (tons)		11.9	14.3	17.4	14.9	17.9	21.8	17.9	21.4	26.1	20.9	25.0	30.5	23.0	27.6	33.6
Allowed max. wave height	0.5 m															
Allowed current speed	1 m/sec															
Allowed ice condition	Allowed static ice load. ice moving is not allowed															
Anchoring systems	Chain	Ø 20 mm, Ø 22 mm														
	Concrete anchors	2000 kg, 3000 kg														
	Pile	Ø400-600 mm, 40kN														
Boat mooring	Mooring buoys, boat booms, mooring fingers, mooring bollards															
Boat sizes	Small- craft up to 24m (80 feet)															

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Download our product CAD details from the ProdLib library.

Top Marine is a continuously developing firm and may at its sole discretion revise or amend this product catalog without notice.



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