

# Top Marine

Floating Marina Installations



## Medium Duty Pontoon



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## 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.

## RUBBER CONNECTING SET

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

## SERVICE DUCTS

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

## FINGER CONNECTING RAIL

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

## SOS PEDESTAL

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

## SAFETY LADDER

## SERVICE PEDESTAL

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

## TIMBER DECKING

- Impregnated softwood decking 28x120 mm.

## GANGWAY

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

## PILE ANCHORING SYSTEM 40KN

- An alternative solution for chain mooring;
- Has been designed for piles Ø400-500mm;
- The design pile load is 40 kN;
- Strong hot dip galvanized steel structure;
- Flexible rubber bolted joints

## BOAT BOOMS

- 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.

## MOORING BOLLARD

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

## MEDIUM 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/m<sup>3</sup>, strenght ≥100kPa, water absorption ≤3%.

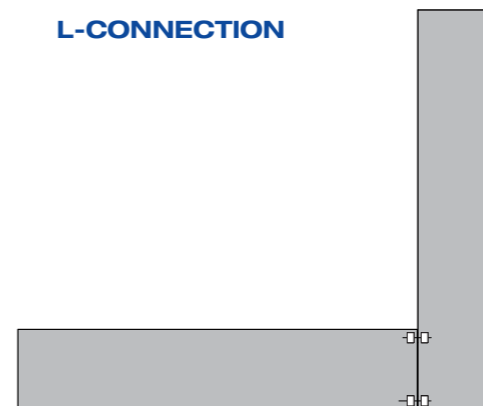
## END CONNECTION



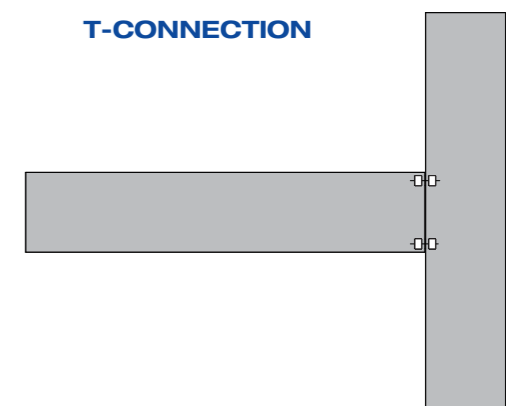
## SIDE CONNECTION



## L-CONNECTION



## T-CONNECTION



## Medium Duty Pontoon

<b>Medium Duty Pontoon</b>	High-stability, strong, maintenance free, for year-round use, long service life
<b>Intended use</b>	As landing stages, for floating houses and for other marina structures
<b>Connection options</b>	End connection, side connection, L- connection, T-connection
<b>Structural design</b>	Hydrotechnical fiber reinforced concrete with EPS inside, heavy-duty rubber joints
<b>Anchoring system</b>	Hydrotechnical fiber reinforced concrete with EPS inside, rubber joints
<b>Accessories</b>	Wood or plastic decking, fenders, finger connection rails, mooring fingers, boat booms, mooring bollards, service ducts, safety equipment

### Technical Data of Medium Duty Pontoon

Item code		08 10 00	08 12 00	08 20 00	08 22 00	08 30 00	08 32 00
<b>Dimensions of pontoons (m)</b>	<b>Length</b>	9	9	12	12	15	15
	<b>Concrete width</b>	2.4	3.0	2.4	3.0	2.4	3.0
	<b>Overall width</b>	2.7	3.3	2.7	3.3	2.7	3.3
	<b>Height</b>	0.85	0.85	0.85	0.85	0.85	0.85
<b>Freeboard (m)</b>		0.4	0.43	0.44	0.47	0.46	0.49
<b>Designed load capacity (kN/m<sup>2</sup>)</b>		3.8	4.1	4.2	4.5	4.4	4.7
<b>Designed load capacity (tons)</b>		8.3	11.8	12.3	17.3	16.2	22.8
<b>Weight (t)</b>		9.4	11.4	11.6	14.1	13.9	16.8
<b>Allowed max. wave heighth</b>		0.5 m					
<b>Allowed current speed</b>		1 m/sec					
<b>Ice condition</b>		Allowed static ice load, ice moving is not allowed					
<b>Anchoring systems</b>	<b>Chain</b>	Ø 20 mm					
	<b>Concrete anchors</b>	2000 kg					
	<b>Pile</b>	Ø 400...600 mm, 40 kN					
<b>Boat mooring</b>		Mooring buoys, Boat Booms, Mooring fingers, Mooring bollards					
<b>Boat sizes</b>		Boat size up to 15.2 m (50 feet)					

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

Revision date 01.01.2021



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