

## FLOATING PONTOONS STRONG

### STRONG 240 - TECHNICAL CHARACTERISTICS

MARCIANA MARINA	6,40x2,40 m	8,40x2,40 m	10,40x2,40 m	12,40x2,40 m
length.:	6,40 m	8,40 m	10,40 m	12,40 m
width:	2,40 m	2,40 m	2,40 m	2,40 m
displacement:	1.400 kg	1.750 kg	2.150 kg	2.600 kg
capacity:	about 230 kg/m <sup>2</sup>	about 230 kg/m <sup>2</sup>	about 230 kg/m <sup>2</sup>	about 230 kg/m <sup>2</sup>
height out of water:	0,80 m	0,80 m	0,80 m	0,80 m
free board:	about 0,60 m	about 0,60 m	about 0,60 m	about 0,60 m
draft:	about 0,20 m	about 0,20 m	about 0,20 m	about 0,20 m
n. mooring eye-bolts:	4	4	4	4
n. floats:	21	27	33	42
transversal stability:	residual freeboard is 0,37 m under uniform live load of 1,5 kN/m <sup>2</sup> (150 kg/m <sup>2</sup> ) applied to one-half pontoon width on the deck, such freeboard being far greater than 0,05 m as specified by AIPCN Recommendations for marinas design.			

The modules are made according to the AIPCN regulations for the pleasure harbours.

The steel frame consists of IPE 240 beams, UNP 240 heads, transversal profiles and diagonal stiffening crosspieces.

Each frame is equipped with eye-bolts, consisting of 35 mm dia. solid steel rod, "Omega" shaped, directly welded to it.

The hot dip zinc-plated process is made in compliance with EN ISO 1461 standard; it protects the structure from the marine corrosion.

The contiguous modules are connected by joint knees, 790 kN (80 ton.) failure strength, working on polyamide self-lubricating bearings. Joint-cover is placed on top of the joint knees.

The buoyancy is provided by plastic floats, filled by self-extinguishing expanded closed cell polystyrene, CE marking in compliance with the applicable European Directives and Regulations. The floats are assembled in group of 3 by means of marine aluminium alloy profiles.



The pontoons are supplied with double row of fenders at each longitudinal side. The fenders are injection moulded by co-polymer polypropylene or other polyolephinic resin, UV resistant, and elastomeric compound to improve shock resistance.

Every module is equipped with mooring rings in hot moulded steel. The rings are hot dip zinc-plated and assembled to the frame by means of 2 M10 bolts.

The pontoons are equipped for water and power supply.

The deck consists of whole panels or it is equipped with service ducts.

#### *Whole panels*

The deck consists of a series of panels made of "Similteck" resin staves, 2.00 m long, 2.00 m wide.

#### *Deck with service ducts*

The deck consists of a series of panels made of "Similteck" resin staves, the central ones 2.00 m long, 0.96 m wide, and the lateral ones 2.00 m long, 0.52 m wide.

The staves are supported by aluminium alloy profiles, equipped with nylon female screws. Fixation of the staves by means of stainless screws.

It is therefore very easy to remove and to re-install the staves or the lateral duct panels in order to inspect the services underneath.

