

# Top Marine

Floating Marina Installations



## Mooring Buoy



# Mooring Buoy Construction



## THE UPPER GRIP RING

- Used for heavy duty mooring;
- Large size and heavy duty construction.

## MOORING NUMERATION, LIGHT REFLECTOR (optional)

## BUOY ROD

- Strong and durable construction. Hot-dip galvanized, according to ISO1461.

## EPS FOAM

- The buoy float is filled with closed cell Expanded Polystyrene (EPS);
- Unsinkable.

## INNER TUBE OF FLOAT

- The in-moulded hermetically sealed inner tube prevents the buoy from sinking.

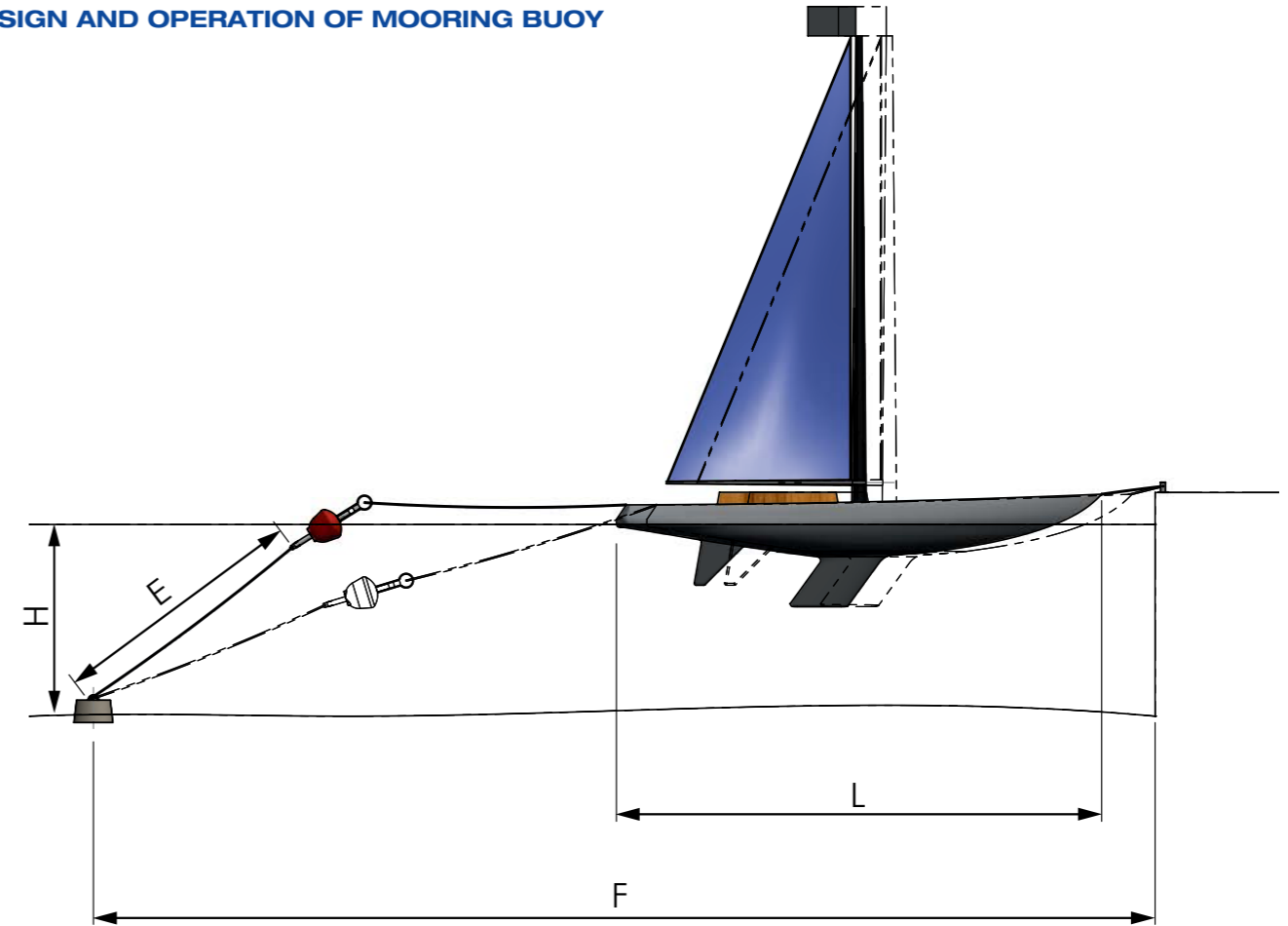
## BUOY BODY

- Roto-moulded from Polyethylene (PE) and filled with EPS. Protected against UV-radiation and winter frost. Maintenance free, for year round usage. Standard colour red. Other colours available on request.

## SHACKLE-FREE ATTACHMENT

- Quick and easy to install;
- Fitted with hot dipped M22 bolt.

## DESIGN AND OPERATION OF MOORING BUOY



Dimensions of boat			Mooring buoy kit			
Length, L		Width, m	Weight, t	Mooring Buoy	Concrete Anchor, kg	Chain/Shackle, mm
Feet	m					
15	4.6	2.0	1.0	Mooring Buoy 40 l	500	10 / 13
20	6.1	2.4	2.0	Mooring Buoy 40 l	500	13 / 16
25	7.6	2.8	3.3	Mooring Buoy 60 l	500	13 / 16
30	9.1	3.2	4.8	Mooring Buoy 60 l	1000	16 / 20
35	10.7	3.6	6.5	Mooring Buoy 120 l	1000	16 / 20
40	12.2	4.0	8.5	Mooring Buoy 120 l	1000	16 / 20
45	13.7	4.4	10.8	Mooring Buoy 120 l	2000	20 / 22

**Distance of Mooring Buoy from the quay** = length of boat + triple water depth

**Length of chain for Mooring Buoy** = maximum water depth + 1 m

**Length of chain for Open Sea Mooring Buoy** = minimum triple water depth

$$F = L + 3 \times H$$

$$E = H_{max} + 1 \text{ m}$$

$$E = 3 \times H$$

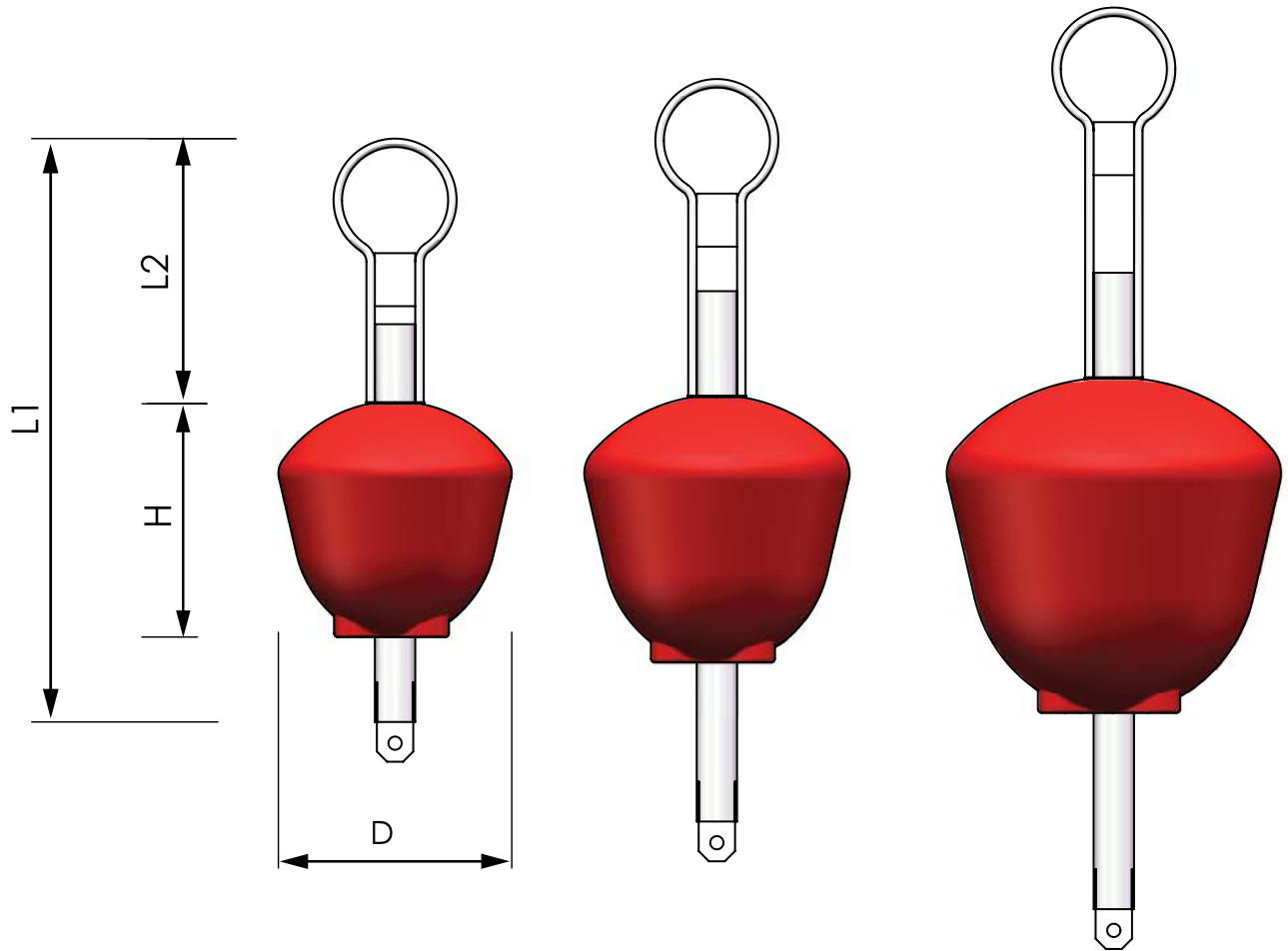
Values provided in the table apply to normal conditions only. Add additional weight in the case of unprotected mooring point.

MantaRay or Screw Pile anchoring systems may be used instead of a concrete anchor.

The Mooring Buoy should not be sunk below 2/3 of its height upon mooring.

The condition of chain and shackles of the Mooring Buoy are checked upon installation and annually thereafter.

## Technical Data of Mooring Buoys



Item code		11 10 00	11 20 00	11 30 00
Product name		Mooring Buoy 40 l	Mooring Buoy 60 l	Mooring Buoy 120 l
Weight, kg		9	12	16
Net capacity, kg		31	48	104
Dimensions, mm	D	440	500	630
	H	440	500	630
	L2	500	600	700
	L1	1100	1400	1700

The Open Sea Mooring Buoy is also available in a short rod version.  
200, 300 and 400 litre mooring buoys are available on special order.

Revision date 1 January 2020

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



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