

SIGNALING BUOYS



Cosema has a large range of **signaling buoys** available, of various dimensions and performances; they can be fitted with appropriate lanterns, daymarks, topmarks, radar reflectors, to comply with any of the IALA Buoyage System Recommendations, and be powered by dry or rechargeable batteries or solar panels systems.

The standard range includes the **CSB Series**, buoys with tube ballast suitable for medium and deep waters; the stability is guaranteed by the ballast being immersed in deep water, therefore not excessively affected by the wave motion. With this ballast system it is possible to reach greater focal heights.

Reinforced sheet steel is used for the construction of the buoys.

Various types of buoys can be constructed in addition to the standard range, in accordance with customer's special requirements.

Mooring is composed as follows: bridle assembly united by shackles to the mooring lugs situated under the floating body, junction link, swivel, suspended chain and sleeping chain. The sizes and lengths of the chains vary according to the type of buoy and prevailing site conditions.

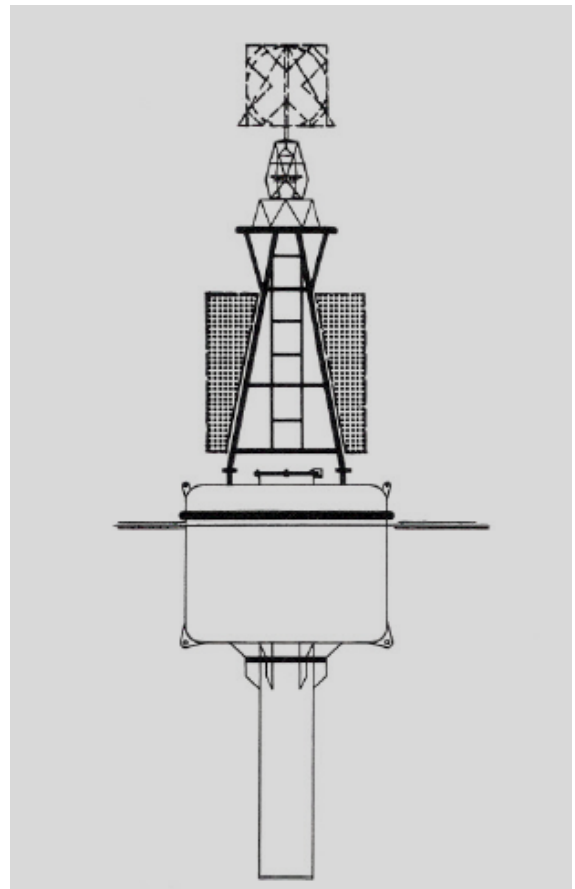
The float ends are always convex to ensure a high degree of robustness. The interior is also reinforced with stiffening ribs to give extra resistance.

The superstructure is made of "L" bars that are both lightweight and robust.

Each buoy is equipped with a **rubber fender** just above the waterline.

All weldings subjected to water pressure are doubled (internal and external) and are checked in the workshop during construction. An optional polyurethane closed cell filling could be added for further security, thus making the buoy unsinkable.

The painting cycle includes: sandblasting SA 2.5, zinc primer, two coats of finish with paints suitable for the marine environment, anti-fouling for the immersed parts.



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Type	Location	Total buoya. Kg	Unit. displac. Kg/cm	Body diam. mt	Focal height mt	Draft mt	Body plate thickness mm	Recomm. Mooring chain	Weight conc. sinker Kg	Buoy weight Kg
CSB 10	Harbours	920	7,85	1	1,5	2	4	14	1.000	450
CSB 12	Harbours, shelter. areas	1.430	11,3	1,2	1,8	2,5	5	18	1.500	490
CSB 15	Harbours, shelter. areas	2.480	17,7	1,5	2,3	3	5	22	2.500	1.680
CSB 18	Partially shelter. areas	4.900	25,4	1,8	3	4	6	26	3.000	3.700
CSB 20	Moderate open sea	5.800	31,4	2	3,5	4	6	28	4.000	4.000
CSB 23	Open sea	10.300	41,5	2,3	4,5	5,5	8	35	6.000	7.000
CSB 30	Exposed open sea	15.700	70,7	3	6	7	10	38	10.000	9.800

Mooring chains

Chain size mm	Weight Kg/mt in air	Weight Kg/mt in water
10	2,1	1,8
12	3	2,6
14	4,1	3,6
16	5,3	4,6
18	6,7	5,8
20	8,3	7,2

Chain size mm	Weight Kg/mt in air	Weight Kg/mt in water
22	10	8,7
24	12	10,4
26	14	12,2
28	16	13,9
35	27,9	24,3
38	32,6	28,3

COSEMA reserves the right to modify the characteristics of their products without previous notice