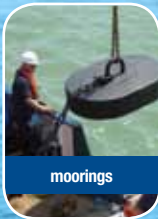


data buoy platforms



moorings



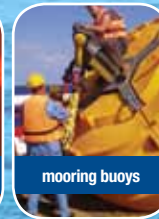
navigation buoys



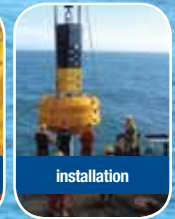
hydrosphere



navigation lights



mooring buoys



installation

the UK's leading supplier of aids to navigation

Mobilis ES 450

spar buoy



MOBILIS

The Mobilis ES 450 is a lightweight, low cost, spar buoy suitable for use in nearshore and river locations where a buoy with a low waterplane area is required.

The rotationally moulded spar is made from high density polyethylene (HDPE) giving the buoy a very strong but lightweight structure that enables it to be handled by small craft without the use of lifting equipment.

Due to its low mass its mooring and sinker weights can be light, making this spar buoy particularly suitable for seasonal or short-term deployment.

The ES 450 is available as a green conical model for Starboard Lateral marking or in a red cylindrical model for Port Lateral marks. The buoy can also be fitted with light mountings for the Carmanah M650 or Vega VLB-2 navigation lights, which will provide a visible range of up to 2 miles, and a typical focal plane of 1.3m.



navigation buoys

features:

- Available as Port and Starboard Lateral mark configurations
- UV stabilised HDPE construction - retains colour within IALA guidelines for more than 15 years
- Virtually no maintenance
- Lightweight moorings and sinkers
- Suitable for 2NM self contained light
- Easy to deploy
- Highly suitable for seasonal or short-term use
- Built-in radar reflector

buoy configurations

Lateral



Mobilis ES 450

specifications and applications

construction

Hull	HDPE
------	------

physical

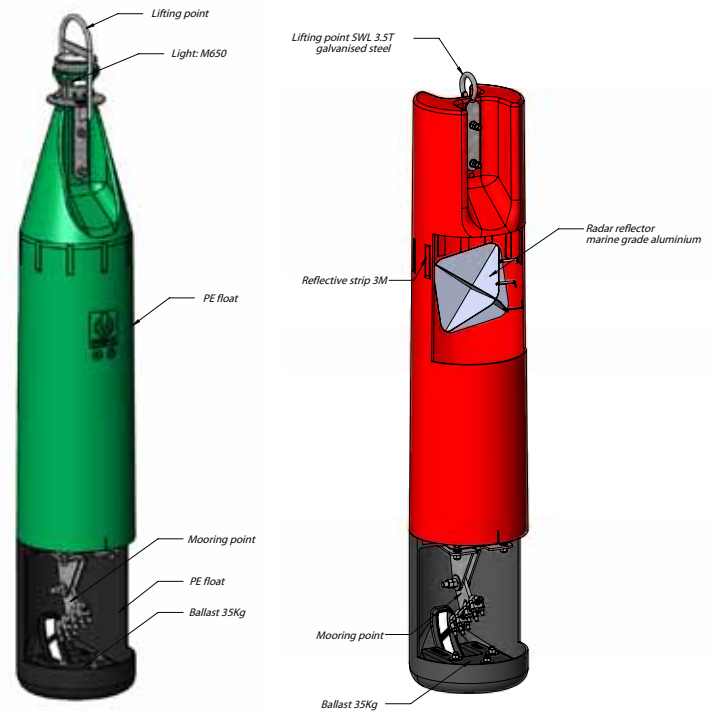
Diameter m	0.45
Max Kg	81
Mass Kg	46
Max Ballast Kg	35
Gross Buoyancy Kg	235
Reserve Buoyancy Kg	119
Focal Plane m	1.3
Draft m	1.0
Overall Height m (exc. topmark)	2.4

application

Inshore	✓
Estuary	✓
Coastal	
Offshore	

mooring

Type	Single point synthetic/light chain
Chain mm	14 - 20
Sinker Kg	Site dependent



the right buoy for the job

To make sure you get the right buoy for your requirements consider all the factors that will affect the visibility and stability of the mark including: depth of water; sea conditions and current; lighting and range of light required; shape and topmarks; and focal plane.

mooring tips:

The mooring is an integral part of the system that will affect the performance and reliability of the buoy. On problematic locations we recommend a detailed mooring study be carried out to maximise reliability and minimise future maintenance costs.



hydrosphere

about Hydrosphere

Hydrosphere is the UK's leading supplier of aids to navigation and has been providing cost-effective solutions to the marine industry for more than 18 years. We offer a wide range of navigation and mooring buoys, LED navigation lights, sector lights, rotating beacons, leading lights, jetty masts, beach and zone marking products and associated moorings. Rental, installation and maintenance services are also available for all our products and systems.

For more information please contact us.

data buoy platforms | moorings | navigation buoys | navigation lights | mooring buoys | installation

t: +44 (0)1420 520374

www.hydrosphere.co.uk

e: sales@hydrosphere.co.uk

Compliant with all IALA recommendations.

