

The TIDAL™ 1.22m CAN buoy is a high visibility marker buoy capable of carrying large chain moorings. Available in CAN and CONICAL versions, it is an economical buoy for marking channels, marine works and aquaculture leases in deeper coastal waters where greater visibility is required.

KEY FEATURES

- High Visibility Marker Buoy
- Rugged Polyethylene Construction
- Ideal for deeper water and coastal swells
- Threaded inserts for attaching solar powered lantern
- 100% Recyclable after a long service life

MANUFACTURED TO LAST

Virgin colour compounded UV-20 polyethylene designed and tested to provide long-lasting colour fade and impact resistance. Completely foam filled to prevent water ingress if the buoy is damaged.

INTERNAL RADAR REFLECTOR

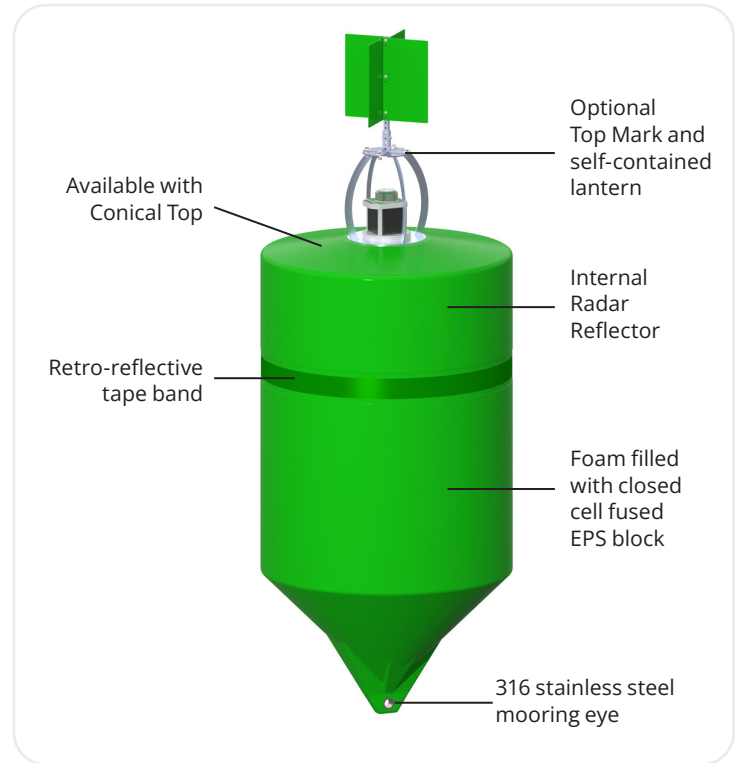
The upper section of the buoy contains a 24m² RCS (avg) large internal radar reflector that Coast Guard clients have confirmed has a 1.15+ NM range.

LARGE MOORING CAPACITY

The conical shaped hull performs well in coastal swells and storms, the large diameter and reserve buoyancy are suited to deeper water deployments.

COLOUR CONFIGURATION

Available to meet the requirements of all IALA Colour / Configuration Recommendations with top marks and self-contained lanterns.



RECYCLING AND REUSE

All TIDAL™ buoys are manufactured solely with materials that are readily recyclable; items like the radar reflector are designed and secured so they can be re-used. Call to discuss how you or TIDAL™ can recycle your buoys.



GENERAL SPECIFICATIONS

Diameter	48.0 in	1.22 m
Height	92.0 in	2.34 m
Mass	282 lbs	128 kg
Hull Floatation Volume	74.4 ft ³	2.108 m ³
Submergence (Freshwater)	65.5 lbs/in	11.7 kg/cm
Max. Mooring & Ballast Mass (Air Weight)	1,102 lbs	500 kg
Min. Mooring & Ballast Mass (Air Weight)	441 lbs	200 kg
Draught (at Min. Mooring Mass)	29.8 in	0.76 m
Reserve Buoyancy (at Maximum Mooring Mass)	2,288 lbs	1,038 kg

PERFORMANCE SPECIFICATIONS

Focal Plane Height (at Min. Mooring Mass)	74.4 in	1.89m
Visible Height (at Min. Mooring Mass)	101.2 in	2.57 m
Visual Area / Surface (at Max Visible Height)	23.5 ft ²	2.18 m ²
Distance of Recognition (at Max. Visible Height)	1.59 NM	2.95 Km
Radar Range	1.15 NM	2.13 Km
Internal Radar Reflector (RCS: Peak / Average over 360°)	24 m ²	

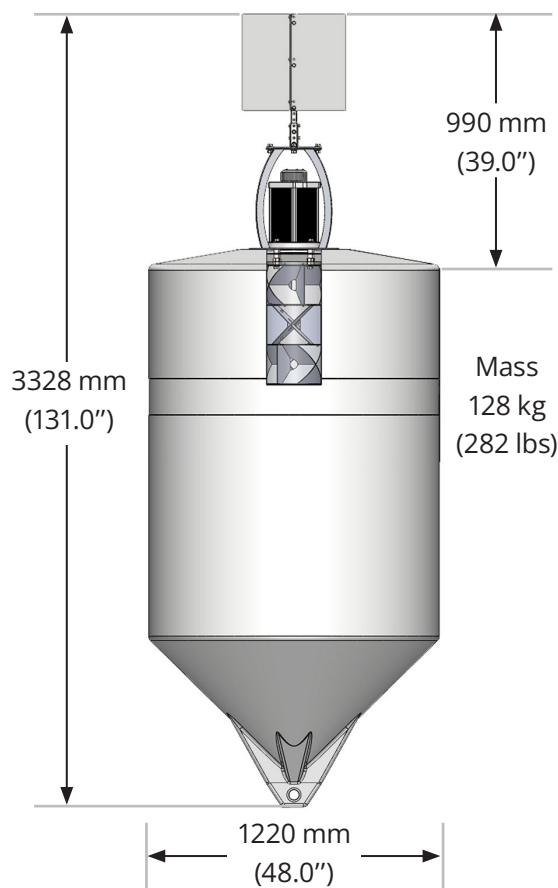
MATERIAL SPECIFICATIONS

Topmark	Conical top version available
Buoy Hull	Virgin MDPE with UV20 protection package
Wall Thickness	3/8 in 10 mm
Foam Filling	Closed cell EPS fused in situ block
Mooring Eye	316 stainless steel
Colours	Compliance with IALA Recommendation R0108
IALA Compliance Testing	Independent laboratory test results available
Colourfastness Test Procedure	Xenon Arc Accelerated Weathering per ASTM D-2565
Colourfastness Testing	Independent test results available per ASTM D-2244
Product Life Expectancy	15 - 20 years
Warranty	5 years

Mooring Line Design

- Mooring design to optimize the performance of each buoy.
- Advanced 3D dynamic analysis of the mooring line and buoy.
- Supply of custom mooring lines with proven components.
- Catenary, inverse-catenary, chain, and synthetics.

Our advanced modelling software can perform dynamic analysis of the interaction between the mooring line and the buoy in normal "operating" conditions to assess and optimize buoy performance. Importantly, this dynamic analysis is also used to assess performance across a range of "survival" conditions.



We carry a wide range of self-contained and externally powered lights for navigation buoys from world leaders such as Sabik, Sealite, Ekta, and Vega.

Depending on the size and use of the buoy, we offer options such as AIS Type I or Type II, Remote Monitoring & control, and on-board solar power systems.

PERFORMANCE SUMMARY

