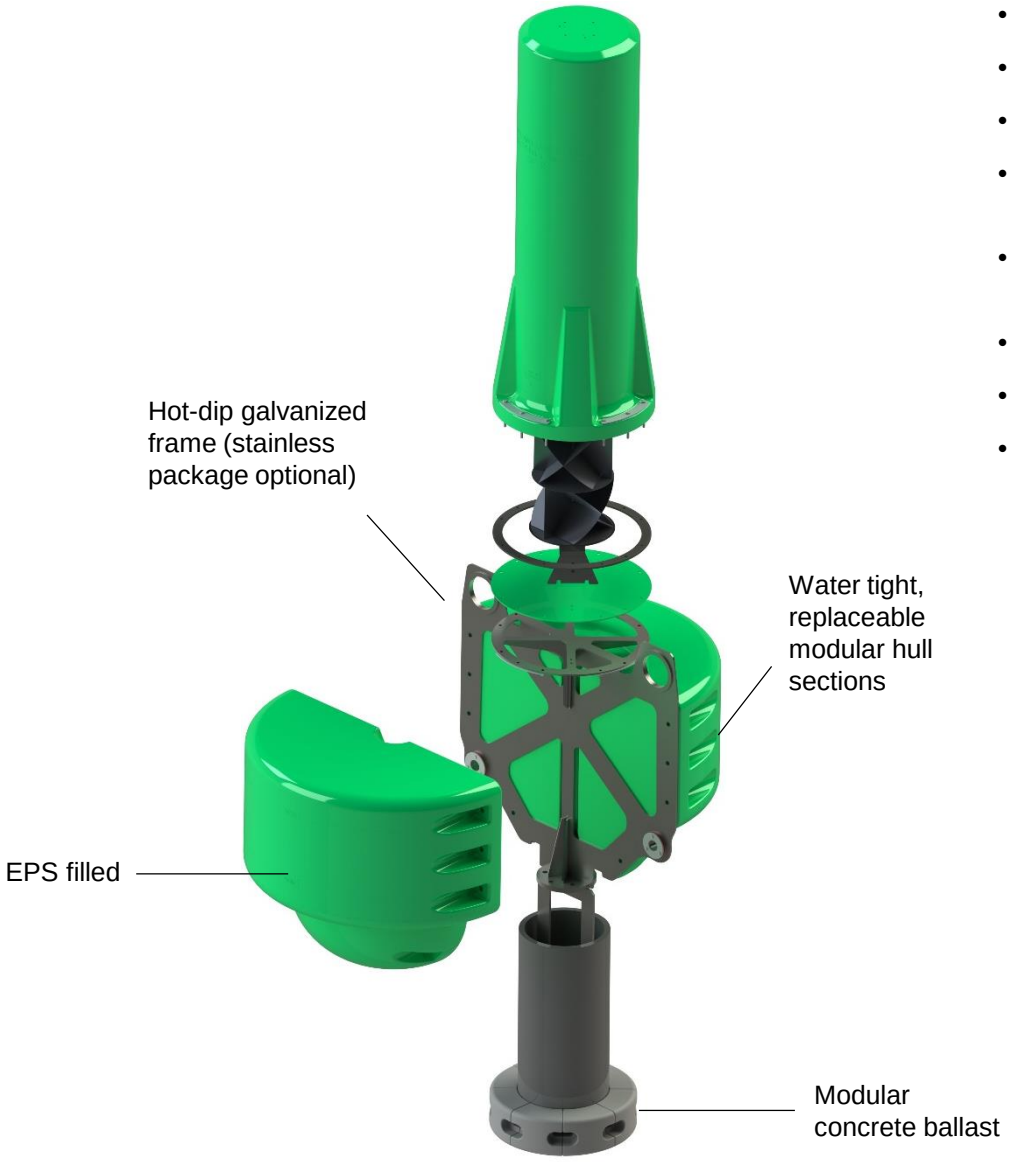
TDL 1.5 Coastal

NAVIGATION

FEATURES & BENEFITS

- Modular construction allows cost-effective replacement of sections when damaged and simplifies end-of-life recycling
- Extremely stable in peak operating conditions
- High quality, UV20+ stabilized polyethylene with uniform wall thickness ensures a robust life expectancy of 20+ years
- Seamless one-piece construction provides a watertight product
- Low temperature impact resistance expands suitability to harsh environments
- Refined EPS foaming process with over 30 years of experience significantly reduces risk of sinking and environmental contamination
- Keel orientation improves ease of transport, maintenance, and deployment
- Free of internal voids prevents significant water ingress and produces superior structural integrity



Optional Features:

- IALA colours & markings
- Conical top
- Solar lantern
- Tamper proof attachment points
- Control symbols & lettering
- Radar reflector
- Reflective tape
- Stainless steel modular lifting and mooring bushings

Note: actual radar reflector may differ from the radar reflector used in the rendering.

CONTACT US

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www.tidalbuoys.com

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IALA

TDL 1.5 Coastal

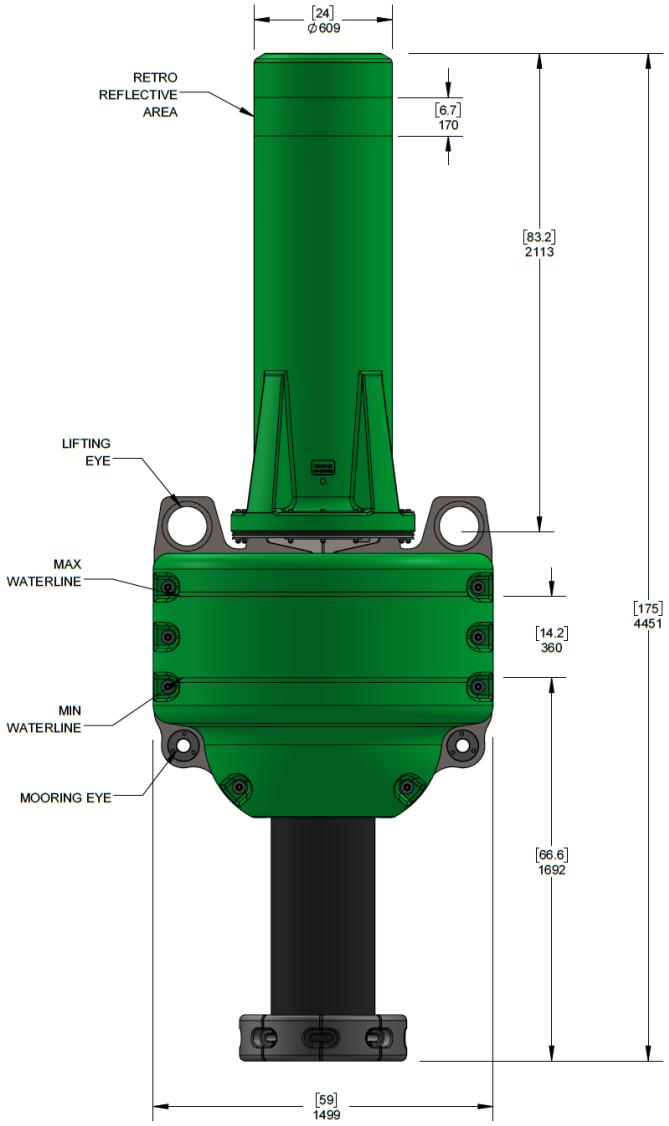
NAVIGATION

Buoy Construction	
Hull / Superstructure	Polyethylene
Surface Finish	High Gloss
Foam Fill	16 kg/m3 Polystyrene
Retroreflective Area	Yes
Optional Radar Reflector	NPL RR20
Life Expectancy	20+ Years
Warranty Period	3 Years

General Specifications	
Overall Height	445 cm / 175.2"
Hull Diameter	149 cm / 58.7"
Tower Section Diameter	60.9 cm / 24"
Air-Weight	500 kg / 1,102.3 lbs
Operational Reserve Buoyancy	36 cm / 608 kg - 36" / 1,340.4 lbs
Mooring Eye Internal Diameter	5.9 cm / 2.3"
Mooring Eye Width	6.0 cm / 2.4"
Lifting Eye Internal Diameter	15 cm / 5.9""
Retroreflective Area	17 cm / 6.7"

Performance Specifications	
Min Visible Height / Min Focal Plane Height	238 cm / 93.7"
Visual Range	10 NM
Max Operational Buoy Tilt Angle (10m Depth)	< 3 degrees
Max Operational Buoy Tilt Angle (22.5m Depth)	< 3 degrees
Min Mooring Load	200 kg / 440.9 lbs
Max Mooring Load	800 kg / 1,763.7 lbs
Optional Radar Cross Sectional Area	32 m2 / 344.5 sq. ft.

Environmental Conditions	
Air Temperature	-2 C / 28.4 F to +50 C / +122 F
Water Temperature	-40 C / -40 F to +40 C / 104 F
Operational Wind Speed	0 to 30 knots
Survival Wind Speed	80 knots
Operational Current Speed	0 - 4.0 knots
Survival Current Speed	10.0 knots
Exposure to Ice	Light
Ice Accumulation	< 20 Kg
Marine Growth - Operational	< 20 Kg



Note: actual radar reflector offered may differ from the radar reflector shown in drawings/renderings.

Material Specifications	
Buoy Shell	Rotationally Moulded Compounded Polyethylene with UV20+ Protection Package
Modular Frame	Hot-Dip Galvanized per ASTM A123 (Optional Stainless Steel Package Available)
Lifting Break Load	Available Upon Request
Foam Fill	Closed Cell Polystyrene Fused In Situ Block with 16 kg/m3 Density
Colour Options	Standard IALA Colours Available in Accordance with IALA Specification E-108
Fasteners, Bushings and Inserts	Stainless Steel
Mooring and Lifting Attachment Points	Galvanized (Stainless Steel Optional)
Internal Ballast	Concrete (Cast Iron Optional)

All figures are based on pre production CAD drawings and are rounded values. Moulded features are subject to a +/- 1.5% tolerance.

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