

## FEATURES & BENEFITS

### FEATURES

- Manufactured to stringent Coast Guard requirements
- Capable of withstanding high current conditions
- Design disperses mooring loads throughout structure
- Rugged 10mm wall thickness in MDPE
- Proprietary IALA E108 Compliant colour with UV-20 protection package
- Foam filled core, will not sink if punctured or damaged
- 316 Stainless steel inserts for Top Marks and Lantern attachment
- 316 Stainless steel mooring eye
- Conformance to IALA Recommendations
- Available in Lateral, Cardinal, Isolated Danger, Safe Water and Special Mark

### BENEFITS

- Ideal low cost option for marking inshore channels & hazards to navigation
- Durable single float construction
- Conical bottom provides superior performance in swells
- Designed to withstand harsh Canadian weather conditions
- Good inshore Visual Target Area with a 1.10 NM visible range
- Good inshore Radar Detection [10m<sup>2</sup> (Avg at +/- 3 deg.)]
- Optional Top Marks and Lantern attachment
- No mooring points for recreational boaters can be an advantage
- Can be deployed from a small vessel
- Deployment and retrieval by mooring chain
- Ultra-low maintenance and does not require sand-blast and painting

# SPECIFICATIONS

## GENERAL SPECIFICATIONS

|                |           |
|----------------|-----------|
| Diameter       | 0.90 m    |
| Overall Height | 2.75 m    |
| Mass           | 65 kg     |
| Submergence    | 7.1 kg/cm |

## PERFORMANCE SPECIFICATIONS

|                                 |                       |
|---------------------------------|-----------------------|
| Focal Plane Height (Maximum)    | 1.93 m                |
| Draught (Minimum)               | 0.82 m                |
| Reserve Buoyancy (at max FP)    | 600 kg                |
| Minimum Mooring Weight          | 100 kg                |
| Maximum Mooring Weight          | 300 kg                |
| Visual Area/Surface (at max FP) | 1.00 m <sup>2</sup>   |
| Visual Range (at max FP)        | 1.2 NM                |
| Radar Reflector (Optional)      | Double 12" Octahedral |
| Radar Range                     | 1.50 NM               |

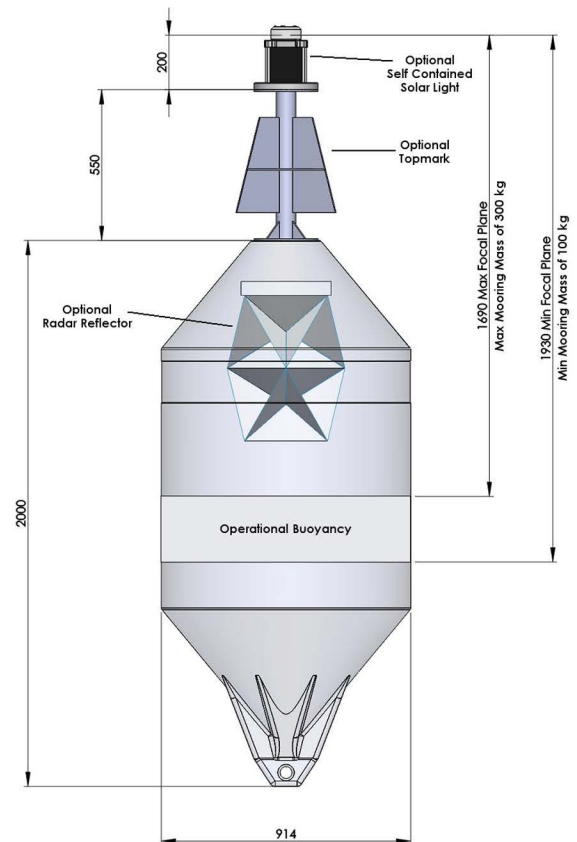
## OPERATING CONDITIONS

|                         |                |
|-------------------------|----------------|
| Air Temperature Range   | -40 C to +50 C |
| Water Temperature Range | -2 C to +50 C  |
| Operational Current     | 0 to 2 knots   |
| Survival Current Speed  | 10 knots       |
| Operational Wind Speed  | 0 to 30 knots  |
| Survival Wind Speed     | 80 knots       |
| Operational Wave Height | 3.00 m         |
| Survival Wave Height    | 9.00 m         |

## MATERIAL SPECIFICATIONS

|                               |  |
|-------------------------------|--|
| Topmark (Optional)            | Marine grade aluminum with 7 stage high performance paint        |
| Daymark Structure             | N/A  |
| Core Structure                | N/A  |
| Lifting and Mooring Structure | 316 stainless steel mooring lug                                  |
| Lifting Break Load            | N/A  |
| Buoy Hull                     | Rotationally molded virgin MDPE with UV20 protection package     |
| Wall Thickness                | 8 mm   |
| Foam Filling (Optional)       | Closed cell EPS fused in situ block                              |
| Colors                        | IALA compliant colors in accordance with IALA Specification E108 |
| IALA Compliance Testing       | Independent laboratory test results available                    |
| Colorfastness Test Procedure  | Xenon Arc Accelerated Weathering per ASTM D-2565                 |
| Colorfastness Testing         | Independent lab test results available per ASTM D-2244           |
| Product Life Expectancy       | > 20 years   |
| Warranty                      | 5 years  |

## GENERAL ARRANGEMENT



Ask about our full line of topmarks and self-contained solar lanterns!



Proud member of the International Association of Lighthouse Authorities.

IALA aims to foster the safe and efficient movement of vessels through the improvement and harmonisation of marine aids to navigation worldwide, and by other appropriate means.