**Purchase Specifications for a
1250mm diameter Navigation Buoy**

**Overview**

This specification is for a 1250mm diameter navigation buoy.

The buoy shall have a 1.25 meter float diameter.

The buoy shall be rotationally-moulded using UV-stabilized, virgin polyethylene.

The buoy shall be of modular design consisting of three 2 parts; floatation section, and top section.

**1.0 General Characteristics**

The buoy shall be available in red, green, white or yellow as per IALA Recommendations.

The buoy shall have a focal plane height up to 1180mm (46.5inches).

The buoy shall have a total float volume of 610 litres

The buoy shall have a nominal freeboard of 335mm

The buoy shall have a nominal draft of 550mm

The buoy shall have a reserve buoyancy of 155kgs.

The maximum mooring load of the buoy shall be 155kgs

The buoy shall have a maximum draft of 675mm.

The buoy shall have a minimum freeboard of 210mm.

The buoy shall have a submergence of 12.5kg/cm (70lb/inch).

The visual area of the buoy shall be 0.8m.

**2.0 Physical Characteristics**

The buoy shall be rotationally-moulded using UV-stabilized, virgin polyethylene.

The float section of the buoy shall have a wall thickness of 9 mm.

The float section of the buoy shall be filled with closed-cell polyurethane foam.

The buoy shall have a height of 1730 mm.

The buoy shall have a width of 1250

The buoy shall have a mass of 70kg.

The life expectancy of the buoy shall be >12 years.

**3.0 Options**

The buoy shall be offered with the following options available from the manufacturer:

* Mould-in graphics
* Day marks
* Top marks
* Suitable marine lanterns
* Radar Reflector

**4.0 Certifications**

The manufacturer shall be ISO9001:2008 certified.

**5.0 Warranty**

The buoy shall have a five (5) year warranty.