The SB-2.2 and SB-3.0 are some of the latest additions to Tideland's range of buoy products. With more than 60 years of experience, Tideland is able to offer varying solutions for specific customer requirements.

This unique design utilises the latest materials in float construction. The design is rugged with exceptional performance and is designed for minimal maintenance and long life.

**Characteristics**

- **TOUGH POLYETHYLENE** float sections (Quantity 4) form the heart of the buoy. Colour pigment is compounded into virgin polyethylene which is further enhanced by Tideland's unique, UV18 stabilizer. Results are outstanding in terms of colour retention and physical strength that resists damage. Unique mould design and control process ensure a homogeneous profile with an increased thickness in high stress areas. This polyethylene also assists in repelling marine growth.

- **A SINGLE COUNTER WEIGHT** manufactured from cast steel, is fixed to the base by a strong, yet simple, technique. This allows counterweight attachment within minutes during buoy deployment.

- **HULL FRAME** is manufactured from galvanised steel and is fitted with four lifting eyes and two mooring eyes. The design allows each of the hull sections to be easily fitted and quickly replaced if damaged. As an option, the hull frame is also available in stainless steel.

- **TOP SUPERSTRUCTURE** comprises several options including:
  - A simple galvanized frame with an integral ladder rated for over 200kgs
  - A galvanized steel frame clad in polyethylene panels to improve day time visibility
  - A complete polyethylene tower

There are also pre-designed holes for mounting solar panels and battery boxes in the base. Options include painting the superstructure to match hull float sections, as well as a stainless steel version. The superstructure can be removed from the core for maintenance purposes.

- **OPTIONS** include day marks, top marks, solar panels, battery box and battery pack, AIS AtoN, racon, along with a buoy monitoring system utilising VHF, GSM, or satellite communication links.
## Technical Details

### Diameter
- **2.2 Steel Tower**: 86in (2200mm)
- **2.2 Polyethelene Tower**: 118in (3000mm)
- **3.0m Steel Tower**: 90.6in (2306mm)
- **3.0m Polyethelene Tower**: 160in (4060mm)

### Foam Filling
- 2lbs/ft3 (32kg/m3)

### Tower Height
- **2.2 Steel Tower**: 119in (3023mm)
- **2.2 Polyethelene Tower**: 90.6in (2306mm)
- **3.0m Steel Tower**: 193in (4994mm)
- **3.0m Polyethelene Tower**: 160in (4060mm)

### Nominal Freeboard
- **2.2 Steel Tower**: 24in (610mm)
- **2.2 Polyethelene Tower**: 29in (736mm)

### Draft
- **2.2 Steel Tower**: 72in (1828mm)
- **2.2 Polyethelene Tower**: 102in (2590mm)

### Nominal Focal Plane Height
- **2.2 Steel Tower**: 150in (3810mm)
- **2.2 Polyethelene Tower**: 130in (3302mm)
- **3.0m Steel Tower**: Up to 239in (5260mm)
- **3.0m Polyethelene Tower**: Up to 206in (5225mm)

### Hull Construction
- **2.2 Steel Tower**: Galvanized Steel
- **2.2 Polyethelene Tower**: Rotationally moulded polyethylene, 12.5mm thick
- **3.0m Steel Tower**: Galvanized Steel
- **3.0m Polyethelene Tower**: Rotationally moulded polyethylene, 12.5mm thick

### Float Construction
- **2.2 Steel Tower**: Galvanized Steel
- **2.2 Polyethelene Tower**: Polyethylene
- **3.0m Steel Tower**: Galvanized Steel
- **3.0m Polyethelene Tower**: Polyethylene

### Visual Area
- **2.2 Steel Tower**: 37.68ft² (3.5m²)
- **2.2 Polyethelene Tower**: 34.44ft² (3.2m²)
- **3.0m Steel Tower**: 43ft² (4m²)
- **3.0m Polyethelene Tower**: 38.7ft² (3.6m²)

### Air Weight
- **2.2 Steel Tower**: 4,322lb (1,960kg)
- **2.2 Polyethelene Tower**: 4,233lb (1,920kg)
- **3.0m Steel Tower**: 7,114lb (3,227kg)
- **3.0m Polyethelene Tower**: 6,894lb (3,127kg)

### Submergence
- **2.2 Steel Tower**: 215lbs/in (38.4kg/cm)
- **3.0m Steel Tower**: 406lbs/in (72kg/cm)

### Radar Reflector
- **2.2 Steel Tower**: 10m2 (X-band)
- **3.0m Steel Tower**: 10m2 (X-band)

### Colour
- All IALA colours available

### Maximum Mooring Load
- **2.2 Steel Tower**: 5,163lbs (2,342kg)
- **2.2 Polyethelene Tower**: 10,950.7lbs (4,967kg)

### Maximum Current
- Up to 7 Knots

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**NOTE:** Specifications are subject to change. All dimensions are nominal.

### SB-3.0 (3000mm)

![SB-3.0 Diagram](image-url)