



Tideland Buoys for Khalifa Port

Page Europa S.p.A. has awarded Tideland Signal Limited, a British-based member of the Tideland group of companies, a major contract to supply and install over 30 buoys, jetty and breakwater beacons for the new port of Khalifa, Abu Dhabi.

The approaches to the new port will be marked by a Tideland SB-285P fairway buoy, while eighteen SB-2200P buoys will provide port and starboard marks along the channel into the harbour, where five SB-98P buoys mark the basin itself.

In addition, there are two port and starboard breakwater beacons, three navigation beacons indicating port and starboard mounted on the jetties and a further nine special mark beacons marking the environmental breakwater and other areas. The channel and basin buoys are all equipped with Tideland's SolaMAX 140/6 self-contained LED lantern, while the on-shore lights are provided by the Tideland MaxLED-200 LED lanterns with a range of 10 NM. All the buoys and beacons were installed by Tideland's Middle East subsidiary Safe Sea Services.



A Tideland SB-2200 buoy equipped with a SolaMAX 140 self-contained LED lantern on station.

The largest single item is the fairway buoy, which carries a Tideland MaxLED-200 LED lantern with a range of 10 NM, a SeaBeacon 2 System 6 frequency-agile X- and S-band racon together with solar power and mooring systems. The same lantern was also chosen for the marker buoys. MaxLED-200 is one of a range of compact, long-range LED

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lanterns constructed in rugged, corrosion-resistant marine aluminium. Proven high-intensity LED technology, together with power conditioning circuitry provides extremely high reliability and long service life, making the MaxLED range ideally suited for buoy mounting, beacons, offshore and other solar-powered applications.

The Tideland SB-2200P, SB-285P and SB-98P are all rotationally moulded polyethylene buoys with a solid core of expanded polystyrene foam. Their innovative mould and fill manufacturing process prevents significant ingress of water in the event of a puncture. Before moulding, the polymer is compounded with UV inhibitors and pigment so that the wall thickness is evenly UV stabilised and colour is uniform throughout. As a result, painting is never necessary. In addition, the buoy is unsinkable, corrosion-resistant and resists marine growth.

Khalifa Port is designed to replace Abu Dhabi's largest existing port, Mina Zayed, which will be redeveloped as a residential and commercial area. The new port will include a container handling terminal and piers for raw and bulk cargos. It will have two separate areas including free zones, offering 100% foreign ownership to companies and individuals. Page Europa, a General Dynamics company, is a subcontractor to Bechtel Corporation, which is managing the project on behalf of the Abu Dhabi Port Company.

Founded in 1954, Tideland Signal Corporation is committed to meeting and exceeding the requirements for marine aids to navigation to the maritime industry.

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