

LANTERN DOME FOR LIGHTHOUSES

LANTERN ROOMS

Lantern rooms manufactured by Almarin have been designed for long service life using modern materials and technologies whilst maintaining a classic look.

This range is composed by three basic configurations based on the shape of the glass panels: rectangular, triangular and rhomboidal.

Glass panels are manufactured using the float process, curved using custom moulds and then tempered. The glass panels fit into screwed housings and are sealed into place using high quality sealants. Replacing glass panels is possible by removing the screwed fairings and cutting away the old sealant.

It is possible to manufacture lantern rooms in modules with a limited weight to facilitate transport and installation.

CHARACTERISTICS AND ADVANTAGES

Strength	Designs are verified using finite element structural analysis in accordance with Eurocode 1 and the location
Resistance to corrosion	Stainless steel structure
Design	Various standard designs available
Installation	Modular design to facilitate transport and installation
Flexibility	Customised design according to the requirements of the location
Quality	According to ISO 9001, ISO 14001 standards

FEATURES

Temperature	From -40°C to +80°C
Manufacturer certificate	ISO 9001:2015, ISO14001:2015, IALA industrial member
Service life	Galvanised steel: 25 years Stainless steel: 50 years

OPTIONS

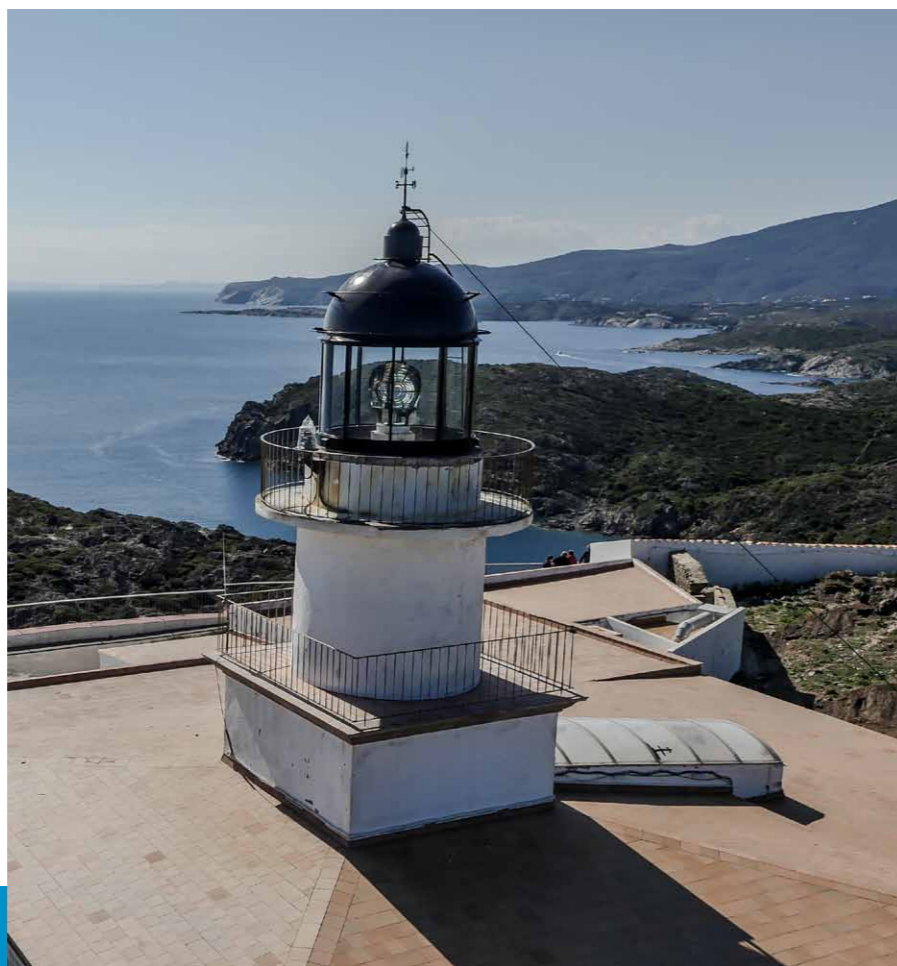
Material	Galvanised steel
Models	Vertical columns - Rectangular glass panels Diagonal columns - Triangular glass panels Rhomboidal columns - Rhomboidal glass panels
Others	Modular construction to limit weight Steel pedestal Access door to outside platform

CONSTRUCTION & QUALITY

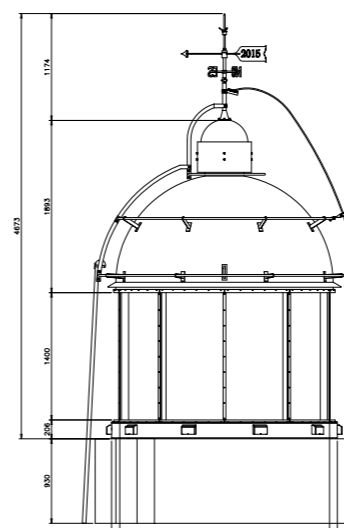
Structure	Upper dome with breathing vents, wind vane and lightning conductor attachment point. Main dome with handrail and optional ladder access. Internal drip tray. Columns with removable fairings allow for the replacement of glass panels. Lower frame with vents
Fixing	Stainless steel anchor bolts
Material	Stainless steel structure Curved, tempered glass Elastomer sealant
Paint	Metal components are painted to C5-M according to ISO 12944 for marine environments, using an epoxy primer scheme and aliphatic polyurethane top coat
Standards	Eurocodes 1 and 3
Recycling	The components are easily recycled with a direct re-use rate nearing 100%

APPLICATIONS

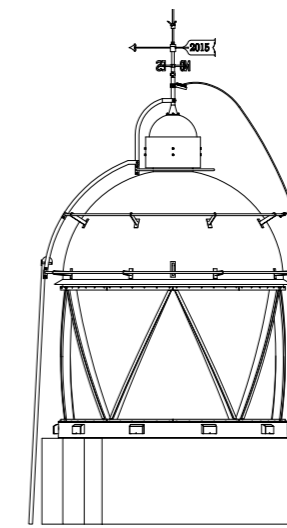
- New lighthouse construction
- Renewal of historical lighthouses
- Lighthouses with rotating beacons



RECTANGULAR



TRIANGULAR



RHOMBOIDAL

