

KEY FEATURES

- Suitable for Zone 1 and 2 installations
- Available in marine alloy with flexible fixing options - offshore environment resistant
- Stainless steel fixing hardware
- Non-slip coating
- Modular system for ease of installation
- State of the art LEDs with a long operating life
- Standard system with failure monitoring and indication
- Custom solutions to meet clients' requirements available
- Standard system comprised of:
 - System controller
 - The Touch Down / Position Marking circle
 - The Heliport Identification Marking "H"

CERTIFICATION:

ATEX Certificate: 16ATEX 0187X

IECEX Certificate: IECEX EXV 17.0001X

Coding: II 2 G Ex eb ib mb op is IIB T4
Tamb -40°C ≤ +55°C Gb

STANDARDS:

Complies with CAA-UK CAP 437;
Offshore Helicopter Landing Areas

MECHANICAL SPECIFICATION:

Dimensions (L x W x H):

510 x 120 x 25mm per segment

Weight: 2KG per segment.

ELECTRICAL SPECIFICATION:

Input Voltage: 90V-250V AC; 12/24V DC

Average Power Consumption: 63W

(Typical system including control panel)

Available Colours: yellow & green in accordance with CAP437 requirements

Monitor and Control: failure monitoring & indication (standard); customisable

OVERVIEW

The Pharos Marine Automatic Power PharoDeck™ Touch Down and Perimeter Marking (TD/PM) Circle and "H" Lighting System provides a complete Zone 1 and Zone 2 system solution to CAA-UK CAP 437 and ICAO Annex 14 requirements.



The lighting system is suitable for installation and operation within hazardous area zones 1 & 2 (ATEX certified II 2 G Ex eb ib mb op is IIB T4 Gb -40°C ≤ Tamb ≤ +55°C).

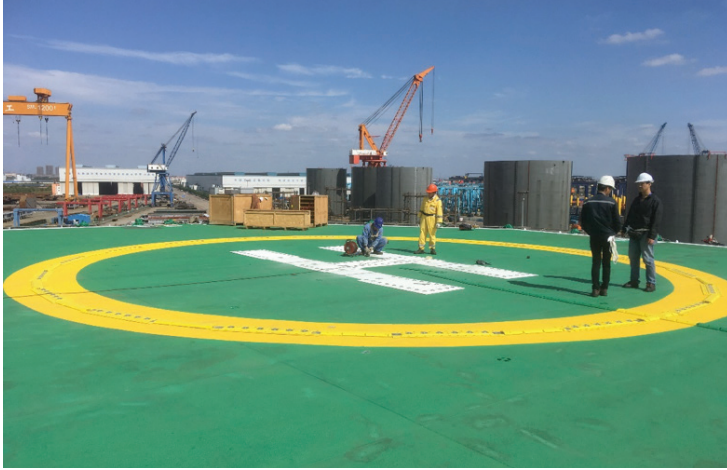
The PharoDeck™ lighting system comprises of segments ("Circle" mark) and subsections ("H" mark) consisting of groups of LED elements which are yellow and green in colour. The segments have been developed to accommodate varying helideck sizes.

The LED elements are mounted on laminated aluminium deck plates, which along with the segments and subsections are friction coated. The segments and subsections are fully encapsulated Ex "m" LED driver boards, which supply an intrinsically Ex "I" safe LED circuit. These are pre-mounted to the laminated aluminium base plates in pairs and internally connected to a junction box, which is mounted on the deck plate. This construction method provides an increased mechanical protection to the internal connections.

The segments and subsections are electrically connected through the laminated aluminium base plates using an integrated Ex "e" terminal housing. The junction boxes are connected using halogen free, low smoke and flame retardant light system cable and protected by low profile aluminium cable covers.

An extensive range of loading tests consistent with CAP 437 requirements has been conducted on the Pharos Marine Automatic Power PharoDeck™ lighting system. They are described in a detailed test report from Imperial College, where the tests were performed. No evidence of damage to the strip was recorded despite the fact that the pressure on the glass lens appeared to be somewhat higher than required, balanced by lower pressure remote from the lens.

IN HOUSE DESIGN & INSTALL



The system is designed to provide our customers with a cost effective offering that can be easily maintained as a long term solution to Helideck lighting.

The modular design allows for accelerated installation time due to the interconnection of the cables being incorporated into preassembled deck plates.

- Minimal on-deck connection time
- Accelerated Installation

SERVICEABILITY & MAINTENANCE



The segment design is engineered such that in the unlikely event that a failure of element segment/sub-section is encountered, a replacement segment can be readily fitted by means of accessing the internal junction box to remove the connections, then removing the segment from the mounting plate and replacing the segment.

- Reduction in costs for system replacement parts, and System O&M
- Simplistic change outs, with recommended spares as part of system package

