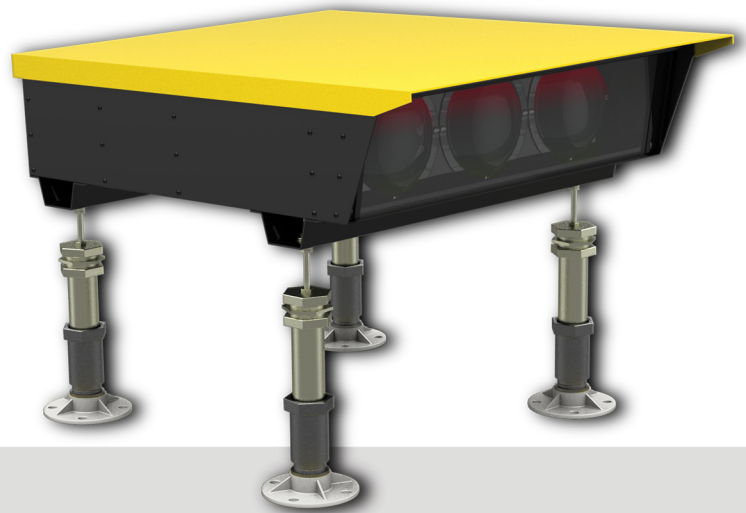


HALO Precision Approach Path Indicator



**FIXTURE FOR
AIRPORTS-HELIPORTS
HALOGEN LAMPS**

**LOW MANAGEMENT
COSTS
LOW MAINTENANCE**

The PAPI 401 fixture is the basic component of the visual indicator system of gradient approach. The PAPI 401 units produce a red and white light beam with an appropriately calibrated net transition.

The light unit installed on board of the PAPI 401 has been designed to simplify the installation and maintenance and can be powered with the traditional CCR through series circuit.

The support system with four supports provides maximum stability to the light fixture. The breakable coupling system ensures the frangible coupling of the supports in case of impacts.

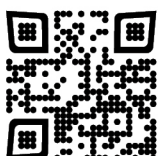
Annex 14 - Volume I (Paragraph 5.3.5) **ICAO**

Manual of Standards Part 139 **CASA**

Stanag 3316 **NATO**

Airport Construction Regulation **ENAC**

ocem

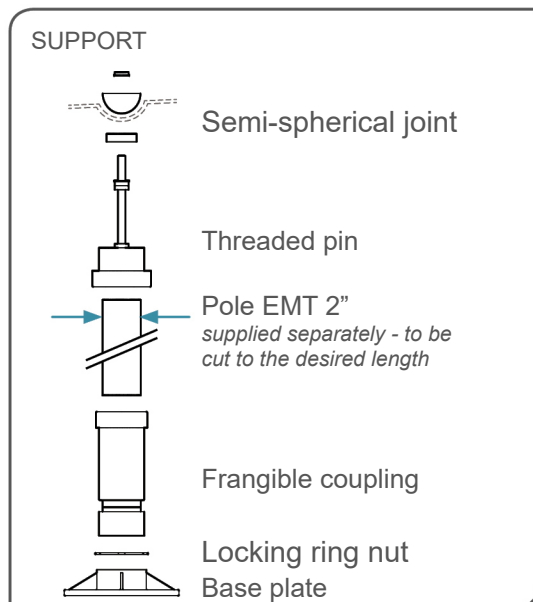


ocem.com

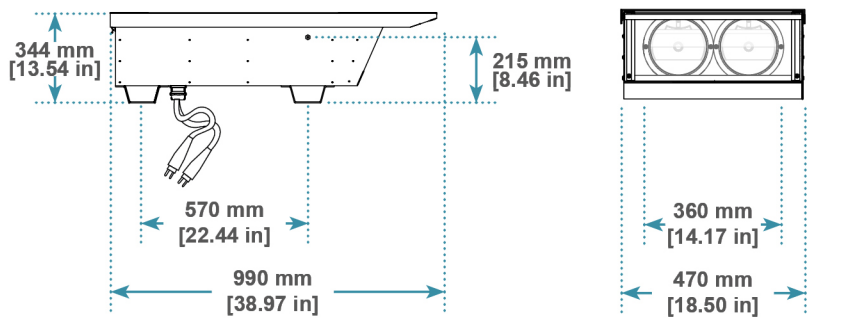
TECHNICAL DRAWINGS

Support height	C/M	H
Minimum	145 mm [5.71 in]	145 mm [5.71 in]
Standard	500 mm [19.68 in]	500 mm [19.68 in]
Maximum	645 mm [25.39 in]	645 mm [25.39 in]

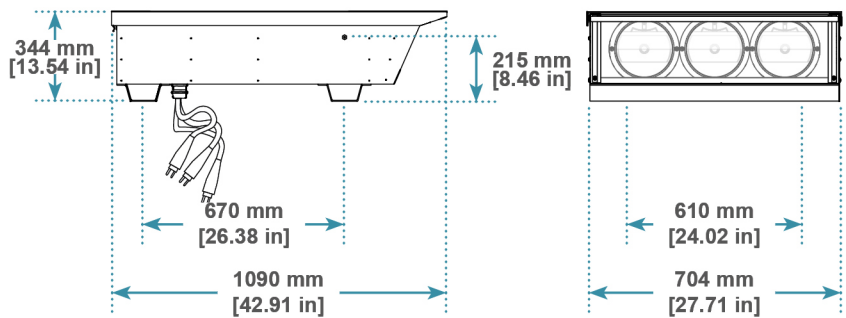
	2 LAMPS	3 LAMPS
Weight	19.0 kg [17.8 lb]	29.0 kg [25.0 lb]
Volume	0.220 m ³ [7.76 ft ³]	0.330 m ³ [11.65 ft ³]



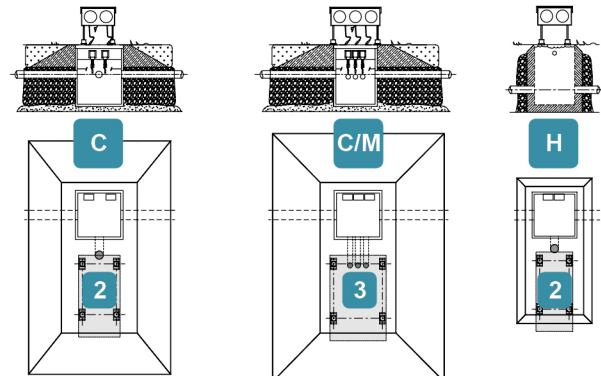
PAPI 401C/H (2 lamps version)



PAPI 401C/M (3 lamps version)



BASE EXAMPLES



FEATURES

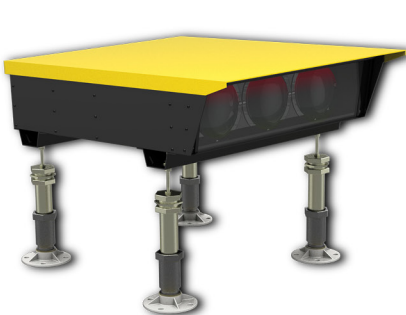
- **Body**
The body of the fixture is made up of a folded aluminium box. A front glass protects the optical lenses. A folded aluminium casing is locked to the body by means of padlockable lever locks.
- **Halogen lamp conforming to FAA**
The use of halogen lamps ensures low maintenance costs. The long lasting halogen lamps are flicker-free and are resistant to vibrations.
- **Optics**
The optics, made up of a reflector system, a filter element and a lens is designed to offer the red/white rapid transition to provide the pilot with an accurate reporting on the glideslope approaching the runway.
- **Support system**
The PAPI 401 fixture is provided with four legs, each equipped with breakable coupling system. The threaded upper rod allows the unit to be correctly dimensioned and levelled.
- **Designed for commercial or militar applications**
The PAPI 401 fixture allows the pilots to receive informations on the glideslope approaching the runway by means of traditional RED/WHITE fixtures both for commercial applications and for militar use.
- **Mounting accessories**
To make installation procedures easier, specific equipments are available in the catalogue. Using a template (optional) is possible to quickly and accurately lay the masonry or threaded flanges required for the installation of the fixtures. For levelling and orientation of the unit are available (optionals) a level gauge and a precision clinometer.

HOW TO ORDER

example: 401CP - 2 - 20 - 18-16				
Standard C = ICAO/CASA M = NATO* H = Heliport (ICAO)**				
System P = PAPI system (4 units) A = A-PAPI system (2 units) U = Single unit				
Number of lamps 2 = Two lamps unit 3 = Three lamps unit				
Type of installed lamp 10 = 100 W 6.6 A PK 30/d* 20 = 200 W 6.6 A PK 30/d				
Option 16 = Front glass (always present) 18 = Flexible sheathing for power cable protection ANT = Anti-condensation heater				

* NATO system configurable only with 3 lamps unit
** Heliport system (ICAO) configurable only with 2 lamps unit
* Lamp 100 W available only for PAPI systems for Heliport

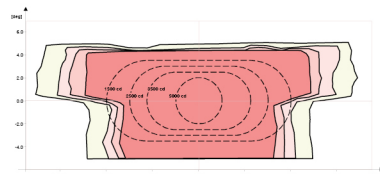
In the example **401CP - 2 - 20 - 18-16**: 4 light units PAPI system for airports compliant with ICAO standard. 2 200 W lamps fixtures (6.6 A PK 30/d), equipped with protective front glass and adaptable support system (note: Pole EMT 2" not provided, to be ordered separately). System equipped with flexible sheathings for power cable protection.



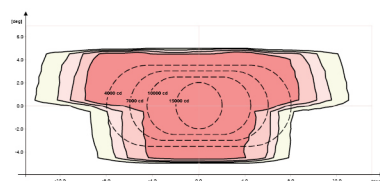
TECHNICAL FEATURES

	C - ICAO	M - NATO	H - Heliport
Electrical specifications			
Supply current	6.6 A	6.6 A	6.6 A
Absorbed power	2 x 200 W 3 x 200 W	2 x 200 W 3 x 200 W	100 W (lamp type: 10) 200 W (lamp type: 20)
Physical characteristics			
Body of the fixture	Aluminium frame with black (body) and yellow (cover) epoxy painting. Other colours available (on request)		
Frame	Stainless steel and anodized aluminium		
Optics	Aluminium reflector and lens in optical glass		
Installation	Fixed on concrete base		
Environmental factors			
Temperature	from -55 to +55 °C [-67 to 131 °F] - Environment from -55 to +80 °C [-67 to 176 °F] - Storage		
Protection index	IP 44		
Certification and Conformity			
ICAO	Compliant Annex 14 Volume 1 paragraph 5.3.3 PAPI (4 units)		Compliant Annex 14 Volume 2 A-PAPI (2 units)
NATO		STANAG 3316	
ENAC (Italian Civil Aviation Authority)	Airport Construction Regulation		Heliport Construction Regulation and Operation
EASA	CS-ADR-DSN compliant		
CASA	MOS139 compliant		
Photobiological Safety Standard	In reference to the Table 1 IEC 62471-2/TR:2009 standard, the PAPI 401 unit is classified as “risk-free” in compliance with the criteria for all the risk categories in the test from 20 cm distance, with the corresponding exception of the blue light hazard, so it complies with criteria of Risk Group 1.		
Intellectual property			
Patents			
Warranty	OCEM PAPI 401 systems are guaranteed free from mechanical and physical design and manufacturing faults for a period of 12 months from the date of shipping or 24 months from the date of shipping.		
Available options	• Flexible sheathing for power cable protection • Anti-condensation heater		

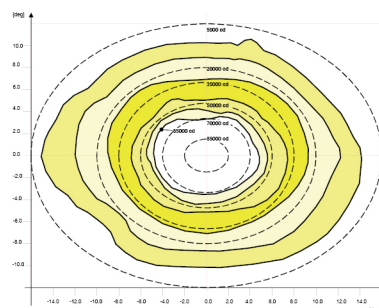
PHOTOMETRIC PERFORMANCE



A-PAPI ICAO system Fig. A2-23 (White/Red)



PAPI ICAO system Fig. A2-23 (White/Red)



PAPI NATO system Fig. A1 (White)

The Manufacturer reserves the right to modify or update the technical parameters at any time without prior notice to Customer.

