

Semi-Flush Stopbar and Runway Guard Light



Compliances: ICAO Annex 14
 FAA : Approved AC 150/5345-46
 L852G-L852S

Applications

TWSBF semi-flush stopbar light is medium intensity, unidirectional, inset, steady burning type; these fixtures are designed for installation in taxiway stop bar (L-852S) and provide photometric performances in compliance with FAA AC 150/5345-46 specification.

TWGLF semi-flush runway guard light is medium intensity, unidirectional, inset, flashing type; these fixtures are designed for installation in runway guard light (L-852G) and provide photometric performances in compliance with FAA AC 150/5345-46 and ICAO Annex 14, Appendix 2, Figures 2-12 e 2-20 specification.

Fixtures described in this manual are manufactured to be powered through isolating transformers by series circuits, fed by constant current regulators.

Characteristics and location of the fixtures shall be in compliance with:

FAA AC 152/5340-30.

Features

Each light assembly mainly consists of a removable light unit and a shallow base receptacle. The light assembly is waterproof and designed to withstand aircraft impact and roll-over loads without damage.

On request, a suitable adaptor ring (base mounted, option R) is available to allow the installation on, 12" diameter, base, type L-868, size B, as per FAA AC 150/5345-42, thereby permitting replacement of any inset fixture without removing the deep base from the pavement.

The **removable light unit** mainly consists of a dome, a lower cover and the optical assembly.

The **dome** is made by treated drop-forged aluminium and includes one window to seat the prism. In correspondence of the window, the dome is outside provided with identification letter "A".

How to order

T W F - - - - - -

Type: _____
 SB = stopbar (FAA only)
 GL = guard light

Compliance: _____
 F = FAA
 I = ICAO Cat. III

Colour: _____
 R = Red (stopbar only)
 Y = Yellow

Lamp Type: _____
 100 = 105W 6,6A reflectorized

Mounting Assembly: _____
 B = Standard Shallow Base
 R = 12" Adaptor ring
 O = No Mounting Assembly

Options: _____
 F = Fuse cutout (stopbar only)
 E = Electronic Cutout Relay (stopbar only)

 : FAA Approved, ETL certified.

The dome is provided with two through holes for fastening the light unit to the base and two dead holes for matching two studs mounted on the base, so to prevent the rotation of the light unit due to aircraft wheel impact/roll over. It is also provided with two suitable slots, in opposite position, to make easy the light unit removal by using two suitable lifting tools. As alternative, two screwdrivers can be used.

The **lower cover** consists of a treated

aluminium casting. Inside the lower cover the lamp, on the lampholder, is connected to the insulating strip. The cover is outside provided with one cable lead with one cable lead with plug L-823, a grounding screw with yellow-green cable lead (with male faston terminal) and a valve (with removable cap) for leak test.

The **optical assembly** consists of one prism, one lamp and one coloured filter. The lamp is of tungsten-halogen type,

105 W, 6,6 A, 1000 hour rated life, with dichroic reflector and cable leads (with male faston terminals). Just one optical assembly is available for this fixture (P/N 152.1570) infact TWSBF and TWGLF haven't particular beam toes, in compliance with FAA 150/5345-46 and ICAO.

The light unit is supplied with one cable lead with plug and bush.

Features continues:

The **shallow base** consists of a treated aluminium casting containing an electrical feed-thru system to connect the power cables, consisting of one cable lead with receptacle incoming inside the base through one cable glands. The cable lead with receptacle consists of two single-pole teflonleads, size 2.5 sqmm, 0.770 m long, with FAA L-823 receptacle.

The letter "A" is printed inside the base for cable lead identification.

The base is equipped with an internal grounding screw.

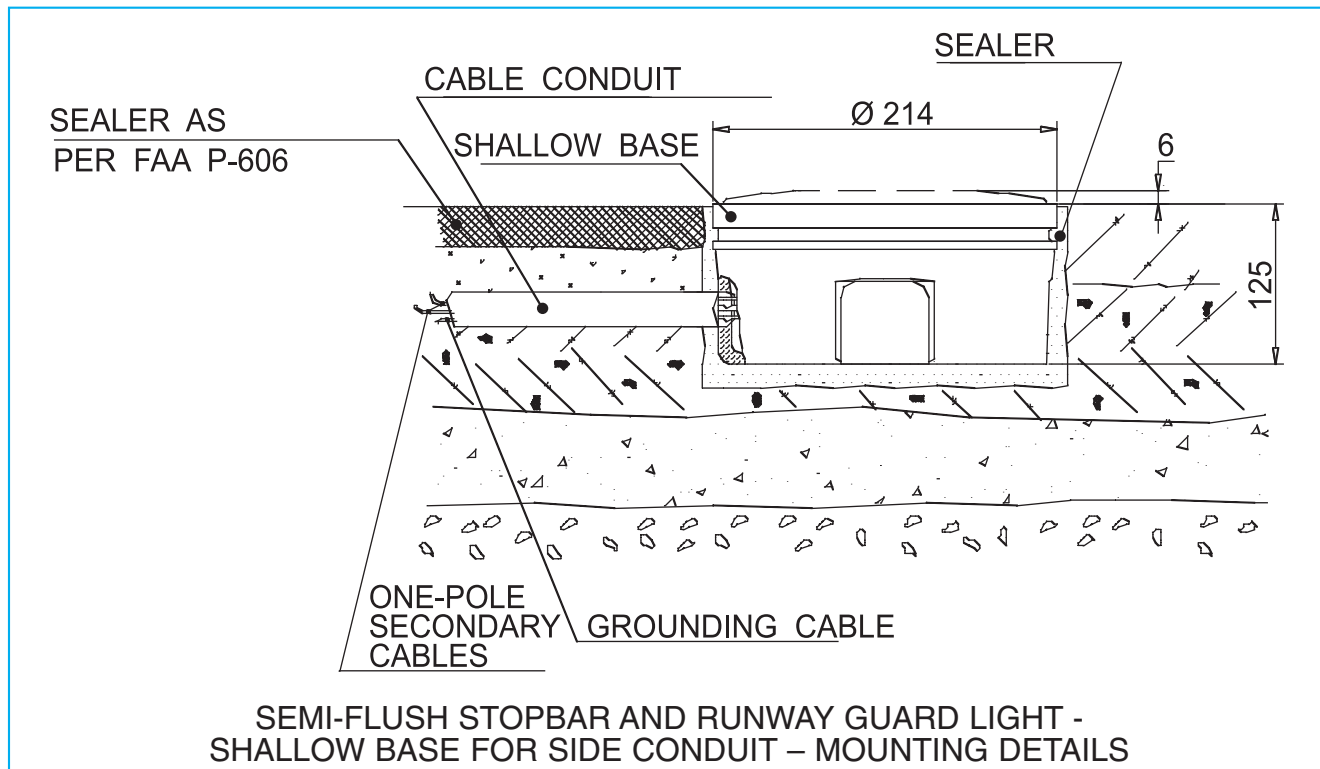
The shallow base is designed for cementing in place in a hole drilled in the pavement.

The light unit is fastened to the base by means of two screws. Each locking screw is complete with external lockwa-

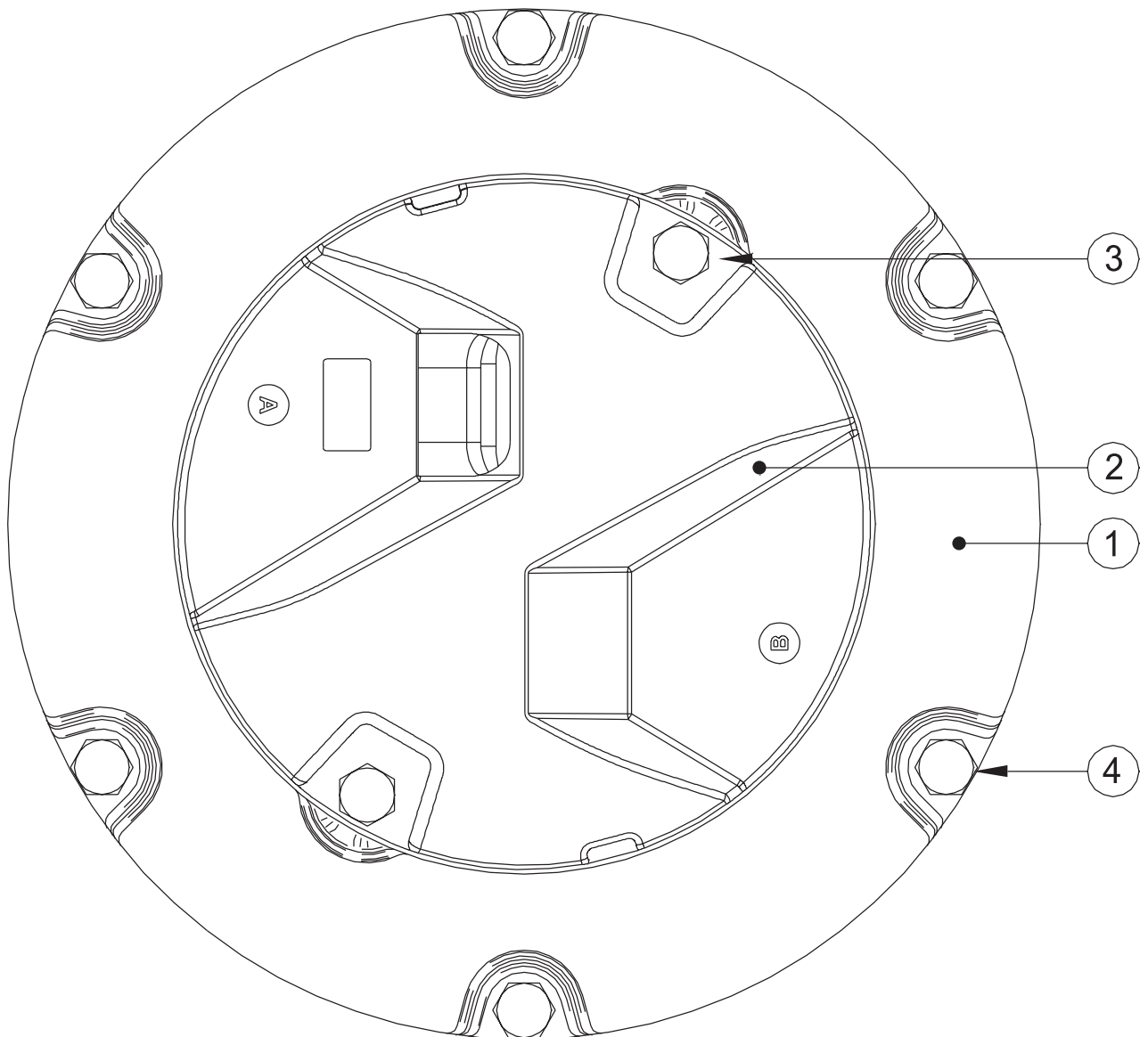
sher and nylon washer. Two studs are provided in the base to prevent rotation of the light unit due to aircraft wheel impact/roll over.

The shallow base is 214 mm in diameter and 125 mm high.

On request, special bases without cable leads can be supplied, provided with holes suitable for conduit connections.



SEMI FLUSH STOPBAR AND RUNWAY GUARD LIGHT UNIT WITH ADAPTOR RING (MOUNTING SYSTEM R)



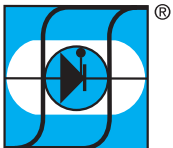
- 1 - Adaptor ring (mounting system R)
- 2 - Removable light unit
- 3 - Hardware to fasten the light unit to the adaptor ring
- 4 - Hardware to fasten the adaptor ring to the 12" base

Instruction manual : UT-MT-409

	Light unit	Shallow Base	Light Unit & Shallow base	Light Unit & Adaptor Ring
Shipping Weight	2,9 kg	3,2 kg.	5,75 Kg.	6,05 Kg.
Shipping Volume	0.007 cu.m	0.007 cu.m	0.007 cu.m	0.013 cu.m

Renewal Parts:

Code (P/N)	Description
303.2470	Unidirectional dome
152.5300	Lower cover with a cable lead with plug and bush and internal connections cables
152.1570	Lampholder
152.5320	Vibration.damping block with hardware
760.2190	105 W tungsten-halogen, 6.6 A, with dichroic reflector
318.3075	Dichroic yellow filter
318.3066	Dichroic red filter
318.1250	Borosilicate prism
325.0431	Prism gasket
758.2120	O-ring 4600 silicone
758.2014	O-ring 4775 silicone
758.2008	O-ring 4625 silicone
758.2040	O-ring 4362 silicone
000.1466	Fuse cutout
329.3025	Insulating strip for fuse cutout with hardware
786.7045	Pressare valve
329.0050	L-823 two-pole plug with cable leads and bush
712.0025	Lower anaerobic adhesive, 50 cc
752.0003	Screw paste, 100 gr
712.0004	Medium anaerobic adhesive, 50 cc
152.6045	Shallow base fixing hardware, dia 8": 700.2228 - screw HH M10x30 stainless steel (2) 706.1106 - elastic washer M10 stainless steel (2) 706.5206 - washer M10 nylon (2)
152.8060	Shallow base fixing hardware (with adaptor ring), dia 12": 700.2228 - screw HH M10x30 stainless steel (6) 706.1106 - elastic washer M10 stainless steel (6) 706.5206 - washer M10 nylon (6)



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