

Fig. 1



HPI Shallow bases and accessories

ADB
Airfield Solutions

Compliance with Standards

FAA: Designed and tested in compliance with requirements of AC 150/5345 – 46 and 42 (current edition) for direct mounting of inset lights (class 1).

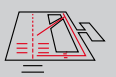
Uses

- Shallow bases are used to install inset lights in flexible and non-flexible pavements, by means of the glue-in method.
- The mounting accessories provide a user-friendly solution for an easy and foolproof installation.

Features

- With the ADB inset light mounted on top, the base forms a mechanically solid system for both, runway and taxiway applications.
- Withstands highest possible mechanical forces and stresses, often far in excess of standard requirements.
- Optimised thermal dissipation has a positive influence on the lifetime of the components of the fitting mounted on top.
- The depth of the shallow bases is the result of an optimum compromise between the fitting height and the thickness of most pavement constructions.
- Patented plug-in feed-through contact saves one secondary connector kit and reduces connection time shallow-base-to-circuit to a minimum.
- Multiple entry arrangement allows optimisation to site wiring system.
- Light weight eases handling in the field.
- No galvanic reactions. Made of the same durable aluminium alloy as the ADB inset lights.
- Can be obtained for various M10 fixing arrangement.
- Designed for shortest possible installation time.
- For use in wet or dry systems.

Fig. 2



Construction (Fig. 3 and Fig. 4)

The HPI shallow base is a gravity-cast aluminium alloy base out of one piece. All bases are provided with earthing facility outside and inside. The standard availability is with either one or two side entries for the cable, via the ADB patented feed-through contact plugs integrated in the side wall of the base, or by means of compression glands. In the first case the base is equipped with 0,5 m long pigtail wires for an easy (crimping) connection to the wires in the saw cuts.

For wet systems the central 100 mm hole in the bottom is another possibility. All bases are supplied with their fixing hardware consisting of M10 screw, or studs and self-locking nuts. The hardware is fitted into stainless steel helicoils.

Fig. 3/4



Dimensions

Nominal diameter	Dimensions (mm)					
	A	B	C	D	h	H
8"	240	216	207	186	115	125-130

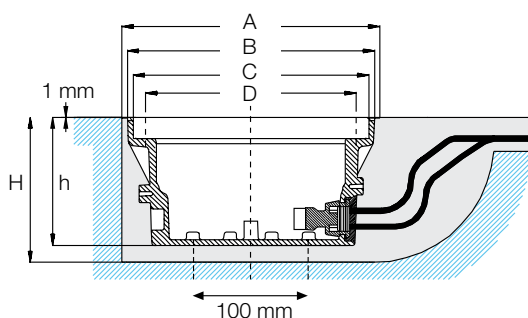


Fig. 5



Installation (Fig. 5)

The 8" dia. base is sealed by means of an appropriate resin that maintains a certain flexibility after having cured ($\pm 2,1 \text{ dm}^3$ per base). A dedicated jig with sighting telescope allows for a correct positioning and levelling of the base with or without the light fitting mounted on top. The secondary wires between the light and the isolating transformer are installed in saw cuts in the pavement filled with resin. 2-Core secondary cabling can be run in conduits.



Fig. 6

Fig. 7

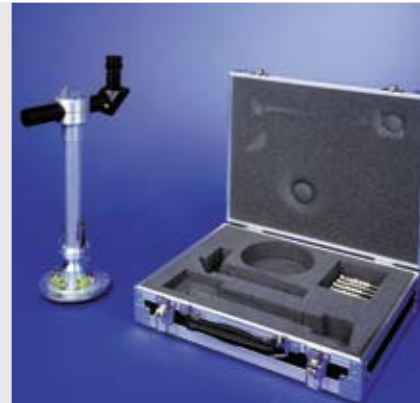


Fig. 8

Accessories

Covers:

- Blind wooden cover for temporary installation of the bases, without their fittings: 4071.86.050
- Blind aluminium cover for a durable watertight protection of the base: 1411.19.950

Installation jigs:

- High Precision installation jig (Fig. 8)
 - for bases with M10 screw fixing kit 1411.17.030
 - for bases with M10 stud fixing kit 1411.17.020
- Simplified installation jig (Fig. 6) 1411.19.260
- Sighting telescope with support for mounting onto the precision installation jigs. The telescope can be moved from one jig to another, only one required for a number of installation jigs (Fig. 7) 1411.19.251

Executions

Type of entry (-ies)

Identification	Type of entry	Nbr. of entries	Figure Nbr.
E1	Side entry with L823 Feed-through 2-pole receptacle	1	3-4
E2	Side entry with L823 Feed-through 2-pole receptacle	2	3-4
E3	Central hole of 100 mm dia. in bottom	1	4
E4	Side entry with compression gland PG16	1	-
E5	Side entry with compression gland PG16	2	-

Fixing hardware

Identification	Bolthole type	Fixing hardware
F1	blind	M10 Screws
F2*	passing	M10 Screws
F3	blind	M10 Studs & self-locking nuts

(*) only with bottom entry

Ordering code

HPI 08 E1 F3 S

Shallow "HPI"-base _____

Nominal diameter
8": 08 _____

Entries according to table X above _____

Fixing hardware according to table Y above _____

Special requests:
please describe in full text and contact the factory _____

Weight and volume

The HPI is either packed individually or, for larger quantities, individually protected in larger cardboard boxes.

Base type	Condition	Volume (mm)	Weight (kg)
8" HPI	unpacked	dia 216 x 115	1.6
	packed per pce	225 x 225 x 120	2.0

Registered Office:

ADB
Airfield Solutions
Leuvensesteenweg 585
B-1930 Zaventem
Belgium

Phone: +32 (2) 7221711
Fax: +32 (2) 7221764
info.adb@adb-air.com
www.adb-air.com