

Clearway Guidance Signs

The clear approach
to airports







Introduction

Clearway Taxiway Guidance Signs are manufactured by atg airports ltd at our Warrington headquarters where, the previous designs of the Smiths Airfield Equipment (SAFE), have been developed into market leading products that are operational at sites across the globe.

This well proven design has been further developed by atg airports ltd to improve reliability and maintainability whilst helping to reduce overall life cycle energy costs.

It is this experience of the global airport industry that has helped in the development of many atg airports products, including our variety of airfield signs.

It is this experience that allows atg airports to provide signs covering all airfield applications including:

- ▶ Mandatory and Information Signs
- ▶ Double-Sided Signs
- ▶ Stand Number Indicator Boards
- ▶ Illuminated Runway Distance Markers
- ▶ Rotary Hydraulic Arrestor Gear Marker

As well as an extensive range of applications, atg airports signs are available using a variety of different light sources, including the latest LED technology.



Specification

Cabinet

Extruded aluminium profile – up to 6.2m long anodised and powder coated in RAL 1007 aviation yellow.

Weather Proofing

To IP55 Rating, front panel
Shatter proof 4mm polycarbonate.

Cabinet Fixings

Non oxidising stainless steel clips and fixings.



Information Sign



Information Sign



Mandatory Sign



Irdm Sign

Mandatory Signs

White characters on a red background are used to advise pilots (and vehicle drivers) of an airfield location beyond which they must not proceed unless authorised by air traffic control.

Information Signs

Yellow characters on a black background (location signs) or black characters on a yellow background (destination signs) are used to provide additional guidance to pilots manoeuvring aircraft on the ground.

Rhag Markers

These are used in military applications. This sign indicates the position of the arrestor cable across the runway.

Stand Number Indicator Boards

As an addition to the range of signs available, Stand Number Indicator Boards are also manufactured in our workshop and meet similar criteria to standard signs.

Irdm's

Illuminated Runway Distance Markers indicate the distance to the end of the active runway to the pilot. The units are available as a single sided or double sided sign.

Double Sided Signs

Double sided illuminated signs are also available in the clearway™ range. The signs are incorporated into a single framework and for continuity between the two types of signs the same fascia extrusion and fixing methods are utilised.

Construction

The main body of the Clearway Sign cabinet is manufactured from corrosive resistant aluminium extrusion which is interlocked with cross members and side panels.

This creates a secure, sealed unit which is strong enough to deal with harshest airport environments around the world.

The fascia framework is also manufactured from corrosive resistant aluminium extrusions, painted black and lined with a neoprene rubber gasket to ensure all Clearway Signs have a weatherproof seal of the complete unit to a rating of IP55.

The fascia is mounted and secured onto the front of the sign by the use of a quick release stainless steel clasps, which, coupled with the hinge mounting to the main casing, provides quick and easy access to the inside of the sign for maintenance staff. The whole sign fascia can easily be lifted ree from the unit to provide full and unrestricted access to the sign if necessary, as part of an airports continuous maintenance program.

All Clearway Sign fascias comprise of four layers. The main layer is opaque in colour and manufactured from UV stabilised 4mm polycarbonate, exceeding industry standards preventing it from shattering or cracking when hit by flying objects, i.e. stones or ice picked up

in a jet blast wash. The remaining layers make up the colours and characters of the sign front, all covered in an anti-vandal, non glare translucent fascia.

The homogenous nature of the fascia is kept clear of any non compliant complications such as sign or fascia joints creating unwanted delineators in the sign front. It enables all Clearway Signs to boast superior levels of ingress protection against the harshest of elements over the entire length of the sign. Sizing of sign characters and the spacing is directed by the appropriate International standards; therefore, the length of individual signs is directly related to the display legend and are available in 14 different lengths.

The trifold mounting is atg's preferred method of mounting for Clearway Signs. The trifold can be secured to a concrete or black top surface with the poles inserted into the frangible coupling which is screwed directly into the trifold mounting.

Other ground mounting options are available upon further contact with atg airports.



Clearway Signs

Following a principle of continuous development, the signs have progressed into market leading products that are operational at sites across the globe

A well proven design has been developed further by atg airports to improve reliability and maintainability whilst helping to reduce overall life cycle energy costs. All Clearway Signs are supplied with LED technology as its primary light source, providing all LED customers with:

- ▶ a reduction in energy consumption
- ▶ a reduction in maintenance costs due to the increased typical life span of the light source
- ▶ an improvement in legibility of the sign during all visibility conditions

The life expectancy of a Clearway LED Sign typically exceeds 75,000 hours and, coupled with the multi-redundant LED configuration, will maintain compliant sign performance in the event of individual LED failure. Clearway Signs can also be supplied with tungsten halogen lamps.

Due to the rapidly changing requirements of airfields and the long life of the clearway signs from time to time it may be necessary to make changes to airfield sign layouts. The intelligent design of the clearway unit makes such upgrades and changes simple to implement without the need to purchase complete new signage.

The kit, which can be supplied to fit Clearway signs of any size that are currently utilising either tungsten halogen, fluorescent or cold cathode technology, and now offer the same lower power consumption and higher efficiency benefits of existing LED signs. The easy to install, 'plug and play' design will allow for seamless transition between existing and new installations without the need for any specialist tooling.

Clearway signs are designed to operate over the current range from 2.8 – 6.6 Amp standard AGL circuit via a suitable series isolating transformer or, optionally, 230V mains supply signs can be either 50 or 60 Hz operation or alternatively from 24V with the ballast converting the 240V mains supply.

Standard series circuit transformers can be used for 6 or 12 amp circuits. An external FAA style moulded plug is supplied as standard for connection to AGL circuits.

atg airports have a wealth of experience, providing quality airfield lighting products and services to airports around the world.





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