

Fli-Pod

Airport Ground Staff Sound Haven



Fli-Pod™

The Fli-pod is a world-first, multi-purpose, acoustic ground operations environment. It enables faster and more efficient aircraft turnaround by bringing all ground operations under one roof closer to where they are needed. The exceptional noise reduction provided by the Fli-pod structure provides an acceptable people environment even when deployed adjacent to aircraft stands and in close proximity to taxiing aircraft. When used as part of an integrated ground operations strategy, Fli-pods can help operators realise significant efficiency savings.

Each Fli-pod is delivered ready for use, pre-wired for network data and comms. Each unit is designed to accommodate a mains service, laptops and fixed computers.

Functional Description

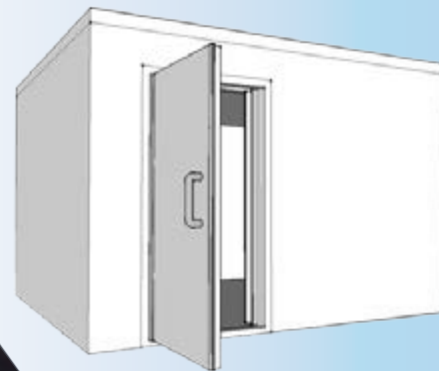
The Fli-pods' primary use is for Head of Stand Operations by ground staff. Alternative uses can include monitoring in close proximity to aircraft.

Delivery & Installation

Fli-pods are designed to be delivered on the back of a low loader and lifted into position by a fork or crane. Each of the support legs incorporates adjustment legs for levelling. Access steps, landings and all external works are excluded from our supply.

Functional Highlights

- Portable working environment for airport ground staff – to speed up aircraft turnaround
- High sound reduction allows deployment close to aircraft
- Weatherproof fire resistant housing, air conditioning, workstations and cupboards, lighting, data com wiring, access control and lockable tool storage
- Custom engineered or standard versions available



Specification

Design Requirements

The Fli-pods will be constructed as self-contained prefabricated units and include a structural steel frame, noise control, weather proofing, thermal control, internal finishes, external finishes, small power, communication and data capability, lighting, air conditioning, doors and windows – generally as per the following specification.

The pod is designed to be lifted and positioned with minimal on-site connections. IAC Acoustics will fabricate and assemble each Fli-pod at the factory and demonstrate compliance before shipping to site. They are designed to have a working life of 20 years.

Acoustic Requirements

The completed composite system, including walls, floor, roof, external cladding, windows, doors and ventilation system will achieve the following sound insulation levels:

Frequency	63	125	250	500	1k	2k	4k	8k	Hz
D _{2M,NT}	16	18	35	35	40	40	40	40	dB

Environmental Control

The air conditioning system will comprise internal evaporator units and condenser units. The system will be assembled and installed at our factory. Within the Pod there will be a digital thermostat to set the temperature.

Door and Windows

Standard pods have 1 no. single leaf acoustic access door, STC-54 acoustic rating, providing a clear opening of 0.85m wide x 2.0m high – additional doors available on request. The acoustic door will be polyester powder coated, finish painted both inside and out matching the colours requested. They will include stainless steel hinges, slam latch handles, threshold, window and kick plates. The lock will be 5 pin cylinder mortice lock set in a steel frame all weather seal.

Double glazed acoustic windows, again STC-54 acoustically rated, will be provided as shown on the enclosed drawings. They will be thermally broken aluminium sections polyester powder coated outside with hardwood timber painted frames inside. The glazing will be hermetically sealed insulating units. Please note that the doors and windows may also incorporate a half hour fire rating on request. Venetian blinds will be installed inside to cover the windows.

Internal Finishes

After completion of the structure build, the pod will be finished, before being delivered to site, in the following manner:

Floor: 2mm thick Altro non-slip vinyl

Walls: finish painted RAL 9010

Ceiling finish painted RAL 9010

Doors: finish painted Goose-wing grey - BS 10 A 05

High Bench Desks: Dexion speedframe or Desks as per your request

Key box: with mechanical digital lock

Mechanical and Electrical

Internal M&E services will be as required and as standard shall generally include the following:

- Heating, cooling and ventilation
- Electrical services (power and lighting)
- Data and communication services
- Fire and intruder alarms
- All trunking and cable trays are provided within our scope

Full testing of all electrical circuits will be carried out, certificates will be issued for each unit. Pressure testing and reports for the air conditioning will also be issued for each unit.

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