

ABOUT US

Established in 1949, IAC is the world's largest provider of noise and acoustic control products, structures and test facilities. Employing over 550 people, the company has major research and development centres in the USA and France and manufacturing plants on four separate sites in the UK, France, Denmark and the USA. IAC's Global Headquarters are located in Winchester, UK, approximately 110km (70 miles) from London.

In addition to the facilities directly owned and operated by the company, IAC works in close partnership with several other manufacturing organisations, notably in eastern Europe and Asia. It also has a large network of technical sales engineers, agents and distributors, offering advice and assistance to customers around the world. Several of these manufacture IAC products under license.



IAC's production plant at Winchester, UK

OUR PRODUCTS

- acoustic air handling units (AHU's)
- acoustic baffles
- acoustic doors
- acoustic enclosures
- acoustic louvres
- acoustic partitions
- acoustic rooms
- acoustic test facilities
- acoustic windows
- aero-engine test facilities
- aircraft hush houses and run-up pens
- anechoic chambers
- audiology rooms
- broadcasting studios
- duct silencers
- engine silencers
- gas turbine noise control packages
- industrial silencers
- language training facilities
- moveable walls
- music practice rooms
- noise absorbers
- noise barriers
- power plant silencers
- recording studios
- reverberation rooms
- sound absorption systems
- turboshaft test cells
- translation booths
- ventilation silencers
- vibration isolators
- voice-over booths



IAC is registered to the international BS EN ISO 9001 quality standard and BS EN ISO 14001 environment management.



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Functional Highlights:

- Portable working environment for airport ground staff – to speed up aircraft turnaround
- High sound reduction allows deployment close to aircraft
- Features include: 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



Airport Ground Staff Sound Haven

The Fli-pod is a world-first, multi-purpose, acoustic ground operations environment. It enables faster and more efficient aircraft 'turn around' 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.

Manufactured at IAC's European HQ in Winchester, 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.



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POD CONSTRUCTION

The pod will be constructed using a combination of materials to obtain all of the design requirements. Our solution is based on the 'panelised' system as outlined below.

The structural base will be constructed using steel members and acoustic panels. The base will be designed to support the pod weight and spread the loads onto support piers (provided by others).

The acoustic/structural floor would be designed for a standard 3kN/m² load.

The structure would be designed to BS EN ISO 5950 – 2000.

The wall and roof structure will use certified acoustic panels supported from the base 'ring' beam. The panel system has a 90 minute fire rating for stability and integrity with insulation to 30 minutes.

The external surfaces will be clad to prevent water ingress and provide an aesthetic finish and the roof is covered in an EPDM single ply system.

The internal surfaces of the unit will be finish painted galvanised mild steel sheets, together with internal fit-out elements if required.

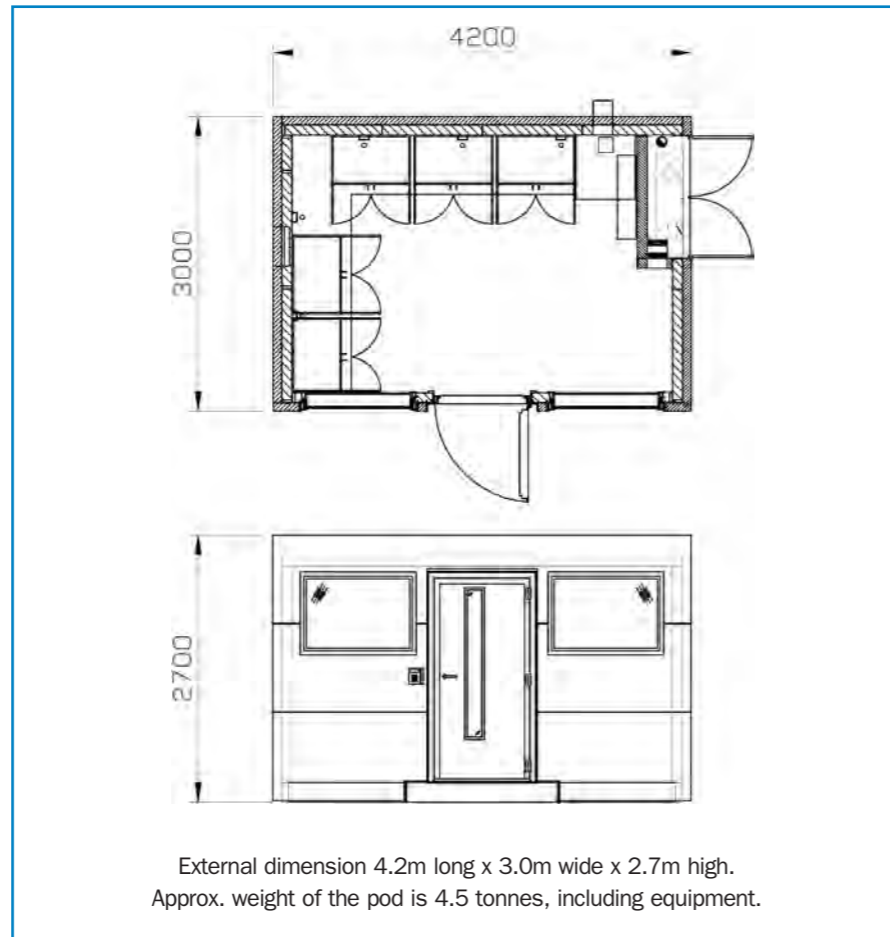
Functional Description

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

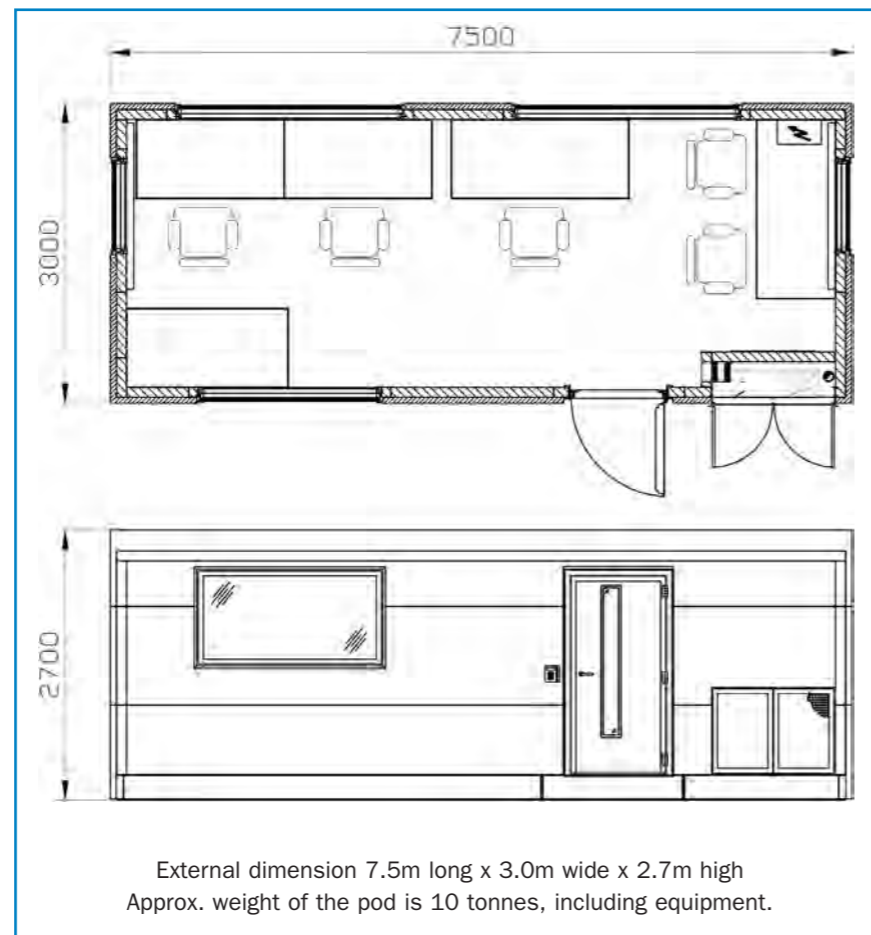
Delivery and Installation

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.

FLI-POD 101



FLI-POD 102



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

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, STC54 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 STC54 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. Window sizes will be as per the attached drawing. 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 be issued for each unit also.