



A complete range of solutions to industrial and environmental noise problems

- Comprehensive product range includes machinery enclosures, test facilities, factory offices, acoustic barriers, doors, sound absorption systems, silencers, louvres and hearing screening booths
- All products fully tested to give guaranteed on-site performance
- Complete design, manufacture and installation service
- Over forty years international experience in all types of production and processing environments
- BS EN ISO 9001 quality registered



industrial noise control

A WORLD LEADER

IAC is among the world's leading providers of solutions to industrial noise problems.

A comprehensive and thoroughly proven range of products is effective both in combating workplace noise problems - to ensure compliance with health and safety legislation - and in eliminating noise pollution from manufacturing sites.

IAC provides a complete service including:

- Noise surveys and acoustic evaluations
- Customised design solutions with proper provision for maintenance access, ventilation, cleaning etc
- Manufacture of all components/structures to agreed specifications
- Delivery, installation and commissioning



One of 7 Moduline® acoustic enclosures controlling generator transformer noise emissions at Didcot Power Station (UK).



Large Noise-Lock® acoustic doors for a turboshaft engine test facility.



Ceiling-hung Varitone® sound absorptive panels reduce noise and reverberation in a Coca-Cola bottling plant.



Large Moduline® engine test cells for British Gas.

PRODUCT RANGE

- Acoustic Barriers and Screens
- Sound-Absorptive Wall Linings and Ceiling Baffles
- Acoustic Doors and Windows
- Silencers and Louvres for Ventilation Plant
- Hearing Screening (Audiometry) Booths and Rooms
- Modular Acoustic Enclosures for Noise-Making Plant and Machinery
- Soundproof Rooms for Product Testing
- Factory Offices and Control/Observation Rooms
- Partial Acoustic Enclosures and Sliding Covers

Front Cover Picture:
Moduline acoustic enclosure for the UK pump and motor production plant of Kawasaki Precision Machinery.

ANSWERS TO ALL YOUR INDUSTRIAL AND ENVIRONMENTAL NOISE PROBLEMS



Large, one-piece, pre-assembled Noishield® acoustic enclosure for British Gas.

Acoustic Enclosures to house almost any type of noise-making plant and machinery, from printing presses to compressors, motors, pumps and standby generating sets.



Noishield® acoustic barrier at Teesside Power Station.

Acoustic Barriers offer an effective shield from machinery noise and are often used to protect local communities from noise pollution.



Metadyne® semi-anechoic component test room for IBM (Germany).

Soundproof Testing Rooms are used to evaluate the noise emissions of many products, from photocopiers to loudspeakers, washing machines, telephones and motor vehicles.



Varitone® sound-absorptive wall linings for a water pumping station

Sound Absorptive Wall Linings and Ceiling Baffles have been used extensively to prevent the build-up of noise and reverberation in buildings such as water pumping stations and bottling/food processing plants.



An Oasis personnel noisheiter®.

Factory Offices and Control/Observation Rooms provide employees with real protection from the risk of hearing damage and a proper, quiet, working environment.



Noise-Lock® double-leaf acoustic doors at a BP fuel development centre.

Acoustic Doors and Windows are used in all types of buildings, both to contain and exclude noise emissions from production areas.



Noishield® acoustic louvres provide ventilation to the plant inside this IAC acoustic enclosure.

Acoustic Louvres and Silencers reduce noise pollution from all types of buildings, including power stations, cooling towers, chemical treatment plants and boiler rooms



Quiet-Duct® silencers and Noishield® acoustic louvres have numerous industrial applications.

QUALITY COUNTS

IAC designs and builds acoustic products and structures in accordance with numerous international technical specifications and standards. The company's internal operations have also been assessed and accredited with the ISO 9001 quality standard.



IAC is a BS EN ISO 9001 quality registered company



IAC's best selling hearing testing booth, the 250 Mini Sound Shelter®.

Hearing Screening Booths

provide a quiet environment in which employers can undertake proper, regular checks on the hearing of workers exposed to workplace noise.

CLIENTS

These are just some of the companies who have used IAC products to overcome their noise problems:

IBM
 Ford Motor Company
 GKN Westland
 Shell
 Coca-Cola
 British Gas
 Express Newspapers
 Sony
 Nissan
 SmithKline Beecham
 Transco
 Kawasaki Precision Machinery
 BP
 Panasonic
 British Airways
 Siemens
 BMW
 Rank Xerox
 Paxman Diesels
 Enron Power Corporation
 Nokia
 Jaguar Cars

THE IAC MODULINE SYSTEM

The Proven, Cost Effective Method for Creating Acoustic Structures

Moduline® is a range of high-performance acoustic panel systems from which IAC has successfully created complete acoustic structures and walls for over forty years. Features Include:

- **Guaranteed Acoustic Performance**
- **Simple, Rapid Assembly**
- **Full Demountability**
- **Combined Sound Transmission Loss (STL) and Sound Absorption**
- **Strong, Durable Construction**
- **Doors/Windows and Ventilation Systems Readily Incorporated**
- **Fire Resistant**

For each individual project it is possible to choose a panel design which has the required sound transmission loss (STL) and sound absorption ratings (as shown below).

SOUND TRANSMISSION LOSS, dB

SOUND ABSORPTION COEFFICIENTS

| Octave Band Centre Freq, Hz | SOUND TRANSMISSION LOSS, dB | | | | | | | | | | Wt, kg/m ² | SOUND ABSORPTION COEFFICIENTS | | | | | | | | |
|--------------------------------|-----------------------------|-----|-----|-----|----|----|----|----|-----|--------------------------------|---------------------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|------|--|
| | 63 | 125 | 250 | 500 | 1K | 2K | 4K | 8K | STC | Octave Band Centre Freq, Hz | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | NRC | |
| Noishield Regular | 20 | 21 | 27 | 38 | 48 | 58 | 67 | 66 | 40 | 39 | Noishield Regular | 0.89 | >0.95 | >0.95 | >0.95 | >0.95 | >0.95 | 0.93 | 0.95 | |
| Noise-Lock I | 25 | 27 | 31 | 41 | 51 | 60 | 65 | 66 | 44 | 46 | Noise-Lock I, II & Super-NoiseLock | 0.94 | >0.95 | >0.95 | >0.95 | >0.95 | >0.95 | >0.95 | 0.95 | |
| Noise-Lock II | 27 | 30 | 32 | 41 | 50 | 59 | 67 | 71 | 45 | 51 | | | | | | | | | | |
| Super-NoiseLock | 31 | 34 | 35 | 44 | 54 | 63 | 62 | 68 | 48 | 73 | NoiseLock III | 0.49 | 0.37 | 0.83 | 0.96 | 0.99 | 1.00 | - | 0.80 | |
| Noishield Hard | 22 | 33 | 45 | 52 | 58 | 68 | 75 | 65 | 56 | 46 | | | | | | | | | | |
| Noise-Lock III | 20 | 36 | 51 | 68 | 75 | 83 | 84 | 73 | 59 | 54 | | | | | | | | | | |
| Gemini Regular | 34 | 48 | 58 | 69 | 75 | 82 | 86 | 76 | 70 | 103 | | | | | | | | | | |

Data in complete accordance with ASTM E 90 (Transmission Loss) and E143 (Sound Absorption).



Sliding acoustic pit covers for a British Gas regulator station.



A 15m x 13m x 6m high Moduline® acoustic enclosure houses three 1MW gas engine generator sets.

Close-fitting Moduline® barriers control noise emissions from newspaper printing presses.



Modular Oasis® personnel office/control rooms give effective protection from factory noise.



IAC'S

EUROPEAN

HEADQUARTERS

IAC's European Headquarters are located at Winchester in Hampshire, UK, approximately 110 kilometres (70 miles) from London. The company's manufacturing operations are housed in a modern, purpose-built factory of almost 8,700m² (94,000ft²) - the large white building in centre of photo with offices just a few metres away.

IAC has become Europe's largest industrial and commercial noise control specialist, now employing over 250 people. Operating with the slogan 'Making the World a Quieter Place' expansion has been achieved through diversification; the company now designs and builds everything from aero-engine test facilities to TV and radio studios, hearing testing (audiology) rooms, enclosures for noisy machinery, road barriers, anechoic test rooms, acoustic partitions, doors and windows, air handling units (AHU's), air conditioning and power plant silencers and silencing systems for warships



supplies rooms to schools for music practice and to the police for interviewing crime suspects.

IAC's clients include such names as British Airways, Ford, the BBC, National Power, Sony, Rolls-Royce, IBM, Glaxo Wellcome, British Gas and Bovis Construction.

The company is a practised exporter, supplying equipment to over 50 countries throughout Europe, Africa, the Middle East and Pacific Rim. It is also registered to the international BS EN ISO 9001 quality standard.



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TECHNICAL REPRESENTATION IN PRINCIPAL CITIES WORLDWIDE

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