



Galvanised steel or Aluminium | Free-draining | Lightweight |
Easily installed | Sound absorptive | Weather tested finishes |
Demountable and relocatable | Freestanding or add-on cladding |
Horizontal or vertical installation



Applications

- Data Centres
- Suitable for an extensive range of applications including:
- Screening Mechanical Plant such as
- Generators, Compressors and Chillers
- Roads and Railways
- Car Washes / Drive Thru's

- Aircraft Pens and Airport Boundaries
- Power Stations
- Electricity Transformers
- Factories and other Manufacturing Sites
- Loading Bays
- Railways

A Complete Range of Barrier Systems

Absorptive

Free standing barrier systems - Type FS and SFS - are sound absorptive on one or both sides, offer excellent sound transmission loss (STL) characteristics and are rapidly assembled from prefabricated components. Panels are simply stacked between steel posts to achieve the desired height.

Louvre Screens

Our range of Noishield™ and Slimshield™ louvres provide highly effective, stylish acoustic screens for mechanical services plant (such as pumps, compressors and chillers) and are particularly suitable when ventilation air must pass freely through the barrier (see the complete range in our acoustic louvres catalogue).

Acoustic Barriers

A COMPLETE RANGE OF
CERTIFIED, HIGH
PERFORMANCE SOLID AND
LOUVRED ACOUSTIC BARRIERS
TO SOLVE A WIDE VARIETY OF
ENVIRONMENTAL NOISE
POLLUTION PROBLEMS

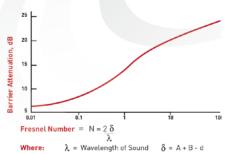
- POLLUTION PROBLEMS
 Guaranteed, proven, sound reduction
- Sound absorptive surfaces minimize reflected noise
- Rugged, abuse-resistant, long lasting steel construction
- Weather resistant and almost maintenance-free
- Wide choice of finishes to blend with individual landscapes

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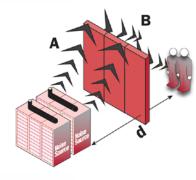
Free-standing Solid Barriers

Barrier Attenuation

Theoretical attenuation, provided by solid barriers, is shown on the graph below. In practice, the maximum barrier attenuation cannot be greater than the barrier's sound transmission loss (STL).



Sound absorptive surfaces reduce reverberant build-up between parallel barriers and other reflective surfaces and increase the ability of barriers to attenuate noise.



Sound Absorptive Coefficients

1/1 Octave Band Centre Frequency, Hz	125	250	500	1k	2k	4k	8k	NRC
FS/S FS/A & FSt/S	1.12	1.12	1.10	1.01	0.89	0.76	0.57	1.05
SFS/S & SFS/A	0.49	1.04	1.14	1.05	0.96	0.95	0.87	1.05
C12/S & C12/A	0.48	1.08	1.10	0.99	0.92	0.83	0.78	1.00
C38/S & C38/A	0.68	1.19	1.10	1.03	0.90	0.81	0.76	1.05

Test Report 723-20f-95, 723-20o-95 & 723-21e-95 refers. All data in accordance with ISO standard 354, ASTM C 423 and E 413 with 11.15m^2 test sample in 262m^3 reverberation room. Coefficients greater than 1.0 result from edge diffraction effects. Do not use sound absorption values greater than 0.95

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Acoustic Performance

All IAC Acoustics Noishield™ barriers offer exceptional transmission loss characteristics and incorporate proven, sound absorbing materials which prevent noise reflections. Detailed, laboratory-tested acoustic ratings for free standing barriers appear in this page's table.

Applications

IAC Acoustics Noishield™ barrier systems give communities effective protection from a large range of noise pollution sources. These include:

- Utilities: Power Stations, Electricity Transformers, Gas Regulator Centres, Water Pumping Stations
- Transport: Railways, Roads and Airports

- Mechanical Plant: Generators, Compressors, Pumps, Motors and Chillers
- Manufacturing and Distribution: Factories and other Industrial Facilities, Loading/Unloading Bays, Building Construction Sites

Acoustic Barriers

Installation & Maintenance

We offer a full design, delivery and installation service, which can also include all necessary structural steelwork. Barriers can be erected by IAC's own, trained personnel. Alternatively, they can be installed by others (contractors, end users etc), preferably under the supervision of an IAC Acoustics engineer. All IAC Acoustics barriers have guaranteed, rust-proof finishes. Periodic cleaning can be undertaken using water/mild detergent. More stubborn stains and graffiti can be removed using harsher cleaning chemicals, though we only recommend these are applied to Polyester Powder Coated (PPC) surfaces..

Finishes

IAC Acoustics Noishield™ barriers are available in a wide range of standard finishes and colours. These include:

- Galvanised Steel
- Aluminium
- Polyester Powder Coating (PPC)
- Vinyl Coated Steel

Special, optional finishes are also available. For example, barriers can be faced with brick, stone, wood, slate and other materials.

Features & Benefits

- Proven, certified, sound transmission loss (noise reduction)
- Sound absorption to minimise reflected sound
- Tough, abuse-resistant steel/aluminium construction
- Weather-resistant, rust-proof, durable finishes which blend sympathetically with the surrounding landscape
- Very low maintenance and easy to clean
- Assembled from prefabricated components for fast on-site installation
- Structural steelwork included on request

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IAC has worldwide offices and manufacturing plants in the UK, Australia, Canada, China, Malaysia, Indonesia, Thailand, Philippines Denmark, France, Germany, Italy, Spain, UAE - Dubai, USA Houston, USA Lincoln, USA - New York.

