

Uniq-Acoustics

noise barrier systems

Uniq Noise Reflective Panels

Part of an extensive range of Uniq-Acoustics noise barrier systems, our noise reflective panels offer a fast, easy and cost-effective means of creating noise reduction barriers in a wide variety of situations, such as motorways, trunk roads, railways, distribution depots, industrial sites and residential developments.



Comprising a range of modular polymer composite panels, locked securely between vertical steel support posts, Uniq noise reflective panels offer excellent versatility in application and installation, enabling schemes to be designed and constructed whilst taking into account site specific issues, such as access and ground conditions.

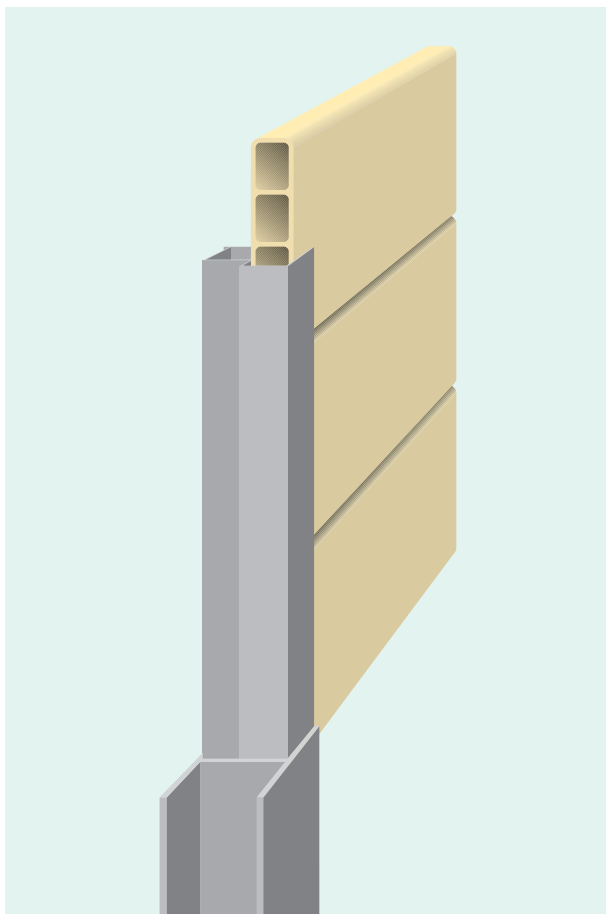
In use, Uniq noise reflective panels offer excellent levels of performance and acoustic tightness. Durability of the system is assured

by the panels' extruded composite construction, which creates a rigid panel that will not warp or shrink, is rot proof and highly resistant to aggressive environments and compounds, such as salt spray, oils, solvents and acids, all without the need for additional surface treatments throughout its life.

The Uniq noise reflective panel system offers a wide range of benefits in scheme design, ease of installation, performance, durability and low maintenance that make it suitable for infrastructure, industrial and commercial applications:



Uniq Noise Reflective Panels



Prefabricated reflective panel option

Uniq noise reflective panels are available in a pre-assembled format consisting of panel elements fastened into an extruded aluminium frame. This convenient format allows the panels to be slung into their final positions with the minimum of effort, providing very fast installation times, of particular importance in projects where traffic management is required. Independently tested in accordance to BS EN 1793 and BS EN 1794, Uniq prefabricated reflective panels are available in 45mm and 65mm panel widths. They are available in spans of up to 4 metres, offering the potential to reduce the number and frequency of vertical steel supports and, consequently, saving costs in installation and material.

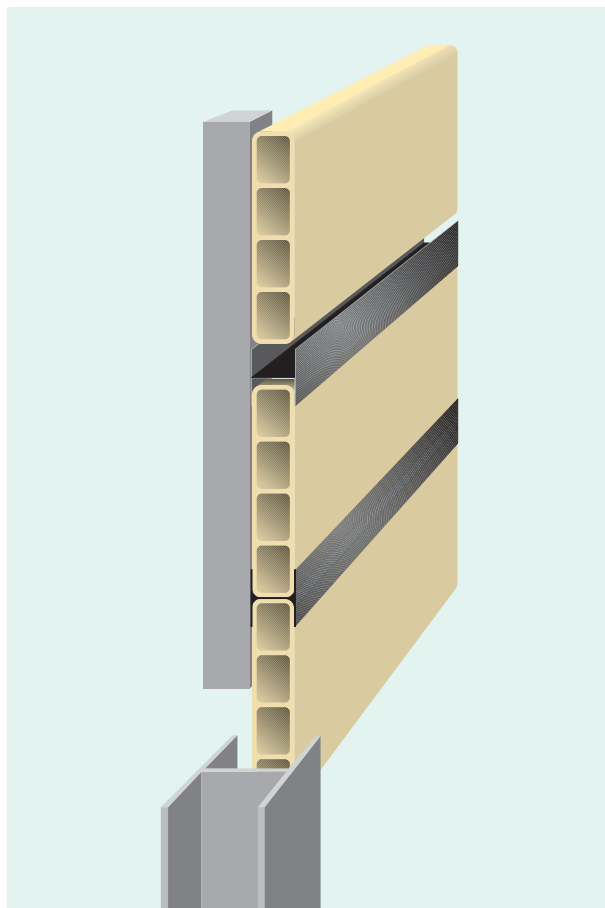
Modular reflective panel option

Uniq noise reflective panels are also available in a modular format to be assembled on site. Each panel element is secured within the steel supports using specially-designed locking sections.

The modular reflective panel is designed with ease of installation in mind, elements fit together without the need for cutting or use of hand tools and the overall number of components is kept to a minimum.

The modular reflective panel option is ideally suited to projects where crane access is not an option, such as barriers being installed a distance away from vehicular access.

Independently tested in accordance to BS EN 1793 and BS EN 1794, Uniq pre-fabricated reflective panels are available in 45mm panel depths and spans up to 3 metres.



Technical appraisal

As part of Uniq Acoustics commitment to providing materials of the highest performance and quality, Uniq noise reflective panels have undergone a rigorous range of independent performance tests in accordance with the very latest European standards for noise barriers.

BS EN 1793-2

Airborne sound insulation Category B3

BS EN 1794-1 :2003-07

Stability under wind and dynamic loads Pass

BS EN 1794-1:2003 App C

Resistance to stone impact Pass

BS EN 1794-2:App A

Resistance to brush fire Class 2

* Test certificates available on request

In addition, Uniq Acoustics noise reflective panels are manufactured in accordance with ISO 9001:2000.

System benefits

The Uniq noise reflective panel system offers a wide range of benefits in scheme design, ease of installation, performance, durability and low maintenance that make it suitable for a variety of infrastructure, industrial and commercial applications:

- Exceptionally durable, providing years of maintenance-free performance without further treatments
- High density composite surfaces assure consistent acoustic performance throughout the length of the barrier
- Materials will not warp or shrink, ensuring acoustic tightness of the barrier is not compromised
- Panels contain a minimal number of components allowing quick installation by crane or hand.
- Panels can be combined with the full range of high performance systems available in the Uniq Acoustics range

Architectural appraisal

Uniq noise reflective panels are available in an extensive selection of standard stock colours, including a range of natural brown shades, black and grey. In addition, Uniq Acoustics noise reflective barriers can be manufactured to bespoke colour schemes, allowing barrier designers to develop novel architectural features.

Uniq noise reflective panels can also be faced with a range of high absorbent materials or used in conjunction with clear acrylic panels, all available within the Uniq-Acoustics product range, to create a variety of alternative noise barriers or to achieve desired aesthetic effects.

Composite materials utilised in the manufacture of Uniq noise reflective panels are based on recycled polymers, allowing designers and architects to develop sustainable construction projects.





HEAD OFFICE

John Dean House
Wellington Road
Burton upon Trent
Staffordshire DE14 2TG
Tel: 01283 515677 Fax: 01283 516126
www.ischebeck-titan.co.uk
E-mail: sales@ischebeck-titan.co.uk

**NORTHERN REGIONAL OFFICE
& DESIGN OFFICE**

Hollinwood Business Centre
Albert Mills Albert Street
Hollinwood Oldham OL8 3QP
Tel: 0161 682 4732 Fax: 0161 684 3603
E-mail: technical@ischebeck-titan.co.uk

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