

Ransford's project profile

Ransford's sound barriers make for good corporate neighbours in Shaw

The Client

The client is a major player in the catalogue sales and logistics fields, with sites at Shaw, near Oldham and Hadfield, near Glossop. The site at Shaw includes two former cotton mills (Lilac & Briar Mills) along with an existing warehouse and associated buildings.

The Project

It is intended to extend the operations on this site in the future with an additional warehouse, and, in anticipation of this extension, a new car park is needed to replace parking areas which will be lost to the proposed development. However, the new car park is close to existing dwellings and other small businesses located nearby. The requirement for a noise barrier fence was a condition of the planning approval, along with some landscaping and the provision of a buffer zone adjacent to the River Beal Tributary along the southern perimeter of the site.

There were a number of interesting/logistically difficult aspects to the works. The land proposed for the car park had a significant amount of well established Japanese Knotweed which had to be dealt with in advance of any construction work taking place, and the water table on the site was reported to be at or about the formation level for the car park. With bulk excavation works programmed to commence in January/February this was, to say the least, of concern. However, the most logistically difficult element was that the access into the new car park is off the only access road into the client's site, which operates 6am–10pm on 364 days of the year and has HGV and other transport seeking access and egress. It was necessary to plan activities (including the removal of some 20,000m³ of excavated material and the importation of a similar volume of MOT Type 1 & Type 3 sub base materials) without having any significant effect on the client's operations.

Globe Construction (www.globeconstruction.co.uk) which has built a huge reputation for successful collaboration with blue-chip clients, was the main contractor for this project with respected specialist fencing contractor Termstall Ltd (www.termstalltd.co.uk) securing the installation work for the fencing.

The Ransford Solution

A Single Sided Reflective Environmental Noise barrier standing 4.05m in total height was pre-fabricated at our production facility in Bishop's Castle using carefully selected home grown sawn and pressure treated softwoods. This specific system was tailor made to the exact requirements of the client to ensure ease and best practice of installation with acoustic performance being of paramount concern. State of the art sawmilling technology at Ransfords ensured that each specific component was produced exactly to specification within tolerances of just 2-3mm! During fabrication each of these components underwent further stringent quality control procedures to ensure maximum acoustic performance and longevity of the barrier.

Although all of our acoustic systems can take many forms of configuration to suit post installation, it was preferred by the client in this instance, for both robustness and ease of installation, that the barrier sat front face fixed onto the posts with the structural components of the barrier sitting on pre-welded cleats to the front face of the post. This meant, through high levels of customer liaison and detailed confirmation prior to fabrication, that specific and precise spacing of the structural components was adhered to, ensuring an exact fit with the steel cleats when they arrived on site.

The barrier was also fabricated in two equal parts per bay enabling them to be easily transported to site in on articulated vehicles and in turn enabling Termstall to make light work of hoisting them up onto the front face of the steel posts.

At Ransfords, we were all delighted with the way the project was carried out by all parties and proud of the aesthetics of the system once *in situ*.

The end result

On projects like this there are always a number of parties to please. First and foremost the planning authorities need to be convinced that the proposed solution will work and that the desired noise abatement will be achieved. **Ransfords acoustic panels are independently tested to ensure that they comply with or exceed all current regulations.** Then there's the client. Globe reports that they have been very impressed by approaches to the work. Termstall, who specified Ransford from long acquaintance with both us as a business and with the products, report that we did our bit with materials arriving when they should and as specified to make work on site go smoothly. So, the end result is that a business operation in a sensitive area close to houses and other businesses can undertake much needed expansion, and can do so without inflicting unwanted noise pollution on its neighbours. Job done!



Wherever you're working, Ransfords has an environmentally sound solution to reduce noise pollution.

Whether it's motorway, railway, industrial or a domestic development we have a system tested to standards recognised by the Highways Agency that will suit your needs. Recognising noise problems, Ransfords has taken natural home grown materials and turned them into effective noise reduction screens for use in noise prone environments. Our offer includes:

Single Sided Reflective System

- The most widely specified system in the UK.
- Sustainable, environmentally friendly timber construction.
- A bespoke system that can be adapted to design requirements
- Flexible system where varying heights and widths can be provided
- Meets stringent Highways Agency requirements
- Up to 29Db noise* reduction
- Easy to install
- Suitable for uneven or sloping ground

For use in

Highways • Railways • Industrial • Residential • Schools /sports venues

Technical data

Category = B3

Laboratory tested Sound Reduction up to 29Db

Superficial mass ranges available in this system (6.9kg/m² up to 11.66kg/m²) if required

Category Rating according to BS EN 1793-2: 1998

Soundwall Reflective System

- Attractive horizontally clad timber construction
- Utilizes a unique interlocking profile designed to maintain acoustic integrity
- Environmentally friendly timber construction.
- Meets stringent Highways Agency requirements
- Anti-Climb Design incorporating hidden structural components thus reducing the risk of intrusion very popular in environments where there is heavy pedestrian presence such as in the vicinity of Railways, Schools and Public Houses.
- Up to 28Db noise reduction
- When combined with steel posts better suited to high wind loading

For use in

Residential • Schools/sports venues • Highways • Railways • Industrial

Technical data

Category = B3

Laboratory tested Sound Reduction up to 28Db

Standard superficial mass 16.96 kg/m²

Category Rating according to BS EN 1793-2: 1998

Double Sided Reflective System

- Sustainable, environmentally friendly timber construction
- Meets stringent Highways Agency requirements
- A heavier and more robust system than the popular Single Sided Reflective System, the Double Sided system is very popular in industrial applications to minimise noise pollution
- Reflects noise on both sides of the barrier
- Anti-Climb Design incorporating hidden structural components thus reducing the risk of intrusion very popular in environments where there is heavy pedestrian presence such as in the vicinity of Railways, Schools and Public Houses
- Up to 33Db noise reduction
- When combined with steel posts the double sided reflective system is better suited to high wind loading situations

For use in

Highways • Railways • Industrial • Residential • Schools /sports venues

Technical data

Category = B3

Laboratory tested Sound Reduction up to 33Db

Standard superficial mass 23.32 kg/m²

Category Rating according to BS EN 1793-2: 1998

Noise Absorbent System

- Specialist dual purpose system with enhanced reflective properties on first face and a noise absorbent face on the second
- Meets stringent Highways Agency requirements

For use in

Highways • Railways

Technical data

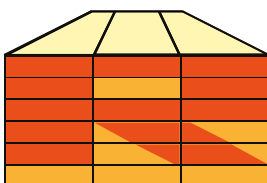
Absorptive rating according to BS EN 1793 Part 1: 1998; A4

Laboratory tested Sound Absorption up to 12DL_a

Reflective rating according to BS EN 1793 Part 2: 1998; B3

Laboratory tested Sound Reduction up to 37DL_r

Visit our website to find out more - or contact our sales team direct



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