Noise and its insidious effects on workplace and home environments are becoming much more widely appreciated. The need to protect people from these effects is beyond question and is now enshrined in codes of practice and design guidelines in industries such as road and rail.

Tilon Industrial provides a wide range of environmental noise barrier solutions for use in infrastructure and industrial developments where noise reduction is of paramount importance. Whatever your project requirements we are confident we can provide you with the ideal solution from our range of high performance noise reflective and absorbent barrier systems.

Tilon Environmental Noise Barrier Systems are manufactured from high strength reinforced polymers totally negating the use of timber together with its inherent issues within their construction.

Our systems consist of highly durable rigid panels that will not warp or shrink, are rot proof and resistant to aggressive environments and compounds such as salt spray and oils all without the need for additional surface treatments throughout their operational life.

All our panels are manufactured off site at our UK production facility ensuring Tilon Noise Barrier panels are produced exactly to design and delivered directly to site for immediate no fuss installation, greatly reducing installation time.
System Benefits

**Longevity**
The materials of construction utilised in our environmental noise barrier systems are exceptionally durable, providing years of maintenance free performance without further treatment.

**Performance**
Whether selecting reflective or absorbent options, high density composite surfaces in conjunction with high density mineral infill panels ensure consistent high acoustic performance throughout the length of the barrier. All designs are certified to the very latest European standards.

**Stability**
Composite materials of construction will not warp or shrink ensuring acoustic tightness of the barrier is not compromised over its operating life.

**Quality**
Tilon Environmental Noise Barrier panels are manufactured in the UK and delivered to site pre-assembled to our exacting quality standards.

**Productivity**
Panel prefabrication allows for very quick installation on site giving realisable productivity gains.

**Environmental**
Composite materials utilised in the production of the Tilon Environmental Noise Barrier System are based on recycled polymers allowing clients to develop sustainable construction projects.

System Options

**Reflective or Absorptive**
Tilon Environmental Noise Barriers are available in noise reflective and noise absorbent options. Both options are tested in accordance to European specifications and achieving B3 and A4 ratings respectfully.

**Variable span**
Tilon Industrial TENB45 and TENB65 system options offer allowable maximum spans of 3000 mm and 4000 mm respectfully.

**Design Flexibility**
Non standard and raked panels of varying angles can be accommodated for individual projects.

**Colour Scheme**
Available in a range of standard colours including brown, grey and black. Panels can also be manufactured to bespoke colour schemes allowing barrier designers to develop novel architectural features or designs sympathetic to the immediate environment.
Tilen Noise Reflective barriers consist of glass fibre reinforced beams utilised in conjunction with locking sections to create the desired panel height. The materials of construction, in conjunction with the uncomplicated system design ensure high levels of acoustic tightness and mechanical performance. Panels can be delivered to site prefabricated making for high speed installation or alternatively delivered in kit format for projects set back from road access.

**Material Specification**

**Composite Backing Panel**
Glass fibre reinforced polypropylene inner core with UV stabilised HDPE outer co-extrusion

**Locking sections**
Exterior grade extruded uPVC profile

**Fixings**
Weatherlex exterior grade screws

**Performance**

**Acoustic Reflectance**
Category B3 according to BSEN1793-2:1998 Intrinsic characteristics of Airborne Sound Insulation

**Mechanical performance**
Maximum span of 3000 mm according to BSEN1794:2003-7 Stability under Wind and Dynamic Loads
Tilon Noise Reflective barriers consist of glass fibre reinforced beams utilised in conjunction with locking sections to create the desired panel height. The materials of construction, in conjunction with the uncomplicated system design ensure high levels of acoustic tightness and mechanical performance. Panels can be delivered to site prefabricated making for high speed installation or alternatively delivered in kit format for projects set back from road access.

**Material Specification**

**Composite Backing Panel**
Glass fibre reinforced polypropylene inner core with UV stabilised HDPE outer co-extrusion

**Locking sections**
Exterior grade extruded uPVC profile

**Fixings**
Weathertex exterior grade screws

**Performance**

**Acoustic Reflectance**
Category B3 according to BSEN1793-2:1998 Intrinsic characteristics of Airborne Sound Insulation

**Mechanical Performance**
Maximum span of 4000 mm according to BSEN1794:2003-7 Stability under Wind and Dynamic Loads
Tilon Noise absorbent barriers are a natural extension to our reflective barrier systems. Glass fibre reinforced beams are utilised to provide the mechanical performance required from the barrier system and combined with mineral fibre infill panels providing high levels of noise absorbency.

**Material Specification**

**Composite Panel**
Glass fibre reinforced polypropylene inner core with UV stabilised HDPE outer co-extrusion

**Mineral Fibre Panel**
Mineral Wool fibre with fibreglass tissue face

**Protective Membrane**
Woven HDPE 130gsm membrane

**Fixings**
Anti-vandal exterior grade screws

**Performance**

**Acoustic Absorption**
Category A3 according to BSEN1793-1:1998 Intrinsic characteristics of Airborne Sound Absorption

**Mechanical performance**
Maximum span of 3000 mm according to BSEN1794:2003-7 Stability under Wind and Dynamic Loads