



Air Absorb - data sheet

High performance acoustic barrier system



Air Absorb is a market-leading acoustic barrier system combining exceptional noise reduction with sustainability. Built with recycled PVC housings and mineral wool infill, and designed for a lifespan of up to 40 years, Air delivers proven performance, faster installation, and minimal environmental impact across highways, rail, utility, and industrial projects.

Key applications



Highways



Utilities



Industrial



Railways

At a glance



Sound Absorption (DL α):
8 dB



Sound Insulation (DLR):
29 dB



Panel Size:
2970 × 250
× 50 mm



Design lifespan:
40 years



Sustainability:
Recycled PVC, mineral wool infill, 40-year design life.

Technical performance

Mechanical Results:

- **Wind load:** 1.1 kN/m²
- **Vertical load:** 2.28 kN/m
- **Brush fire:** Class 1
- **Resistance to impact from stones:** Passed
- **Durability:** salt spray & oil resistance verified

Acoustic Results:

- BS EN 1793-1 DL α = 8 dB;
- BS EN 1793-2 DLR = 29 dB (Category B3)

Physical characteristics

- **Panel dimensions:** 2970 × 250 × 50 mm
- **Mass per unit area:** 18.7 kg/m²
- **Construction:** PVC housing + mineral wool infills
- **Connection system:** Tongue & groove, quick stack
- **Finish:** Absorptive face (perforated)

Installation guidance

- Mounted in steel U/I posts with timber packers
- Tongue & groove connection for rapid installation
- EPDM sealing strips reduce leakage
- Lightweight panels simplify handling on site

Compliance & certification



- BS EN 1793-1:2017 (Sound absorption) — $DL\alpha = 8$ dB
- BS EN 1793-2:2012 (Airborne sound insulation) — $DLR = 29$ dB (Category B3)
- BS EN 1794-1/2:2011 (Mechanical performance)
- BS EN 14388:2005 (Noise barrier CE/UKCA standard)
- UKCA & CE marking supported by BSI Report No. 30249272

Air by GenAcoustic changes the landscape through softer sound. Independently certified to BS EN 1793 standards, Air achieves $DL\alpha = 8$ dB (sound absorption) and $DLR = 28-29$ dB (airborne sound insulation), delivering reliable acoustic performance in a design that blends naturally into its surroundings. Made from recycled PVC housings with mineral wool infill, it is engineered to last up to 40 years with minimal performance loss reducing waste, replacement frequency, and carbon impact. The unique quick slot system ensures faster installation, reduced site disruption, and lower project costs. Resistant to rot, corrosion, salt spray, and oil spills, Air is proven to perform in the UK's most challenging environments. From highways to rail, utilities to industrial facilities, Air is the trusted choice for projects where sustainability, performance, and durability are essential.



Air Reflect- data sheet

High performance acoustic barrier system



Air Reflect is a reflective acoustic barrier engineered for demanding infrastructure projects. Manufactured from recycled PVC housings with a smooth reflective face, it provides certified airborne sound insulation performance, durability, and a 40-year design life.

Key applications



Highways



Utilities



Industrial



Railways

At a glance



Sound Insulation (DLR):
28 dB



Panel Size:
2970 × 250
× 50 mm



Design lifespan:
40 years



Sustainability:
Recycled PVC, mineral wool infill, 40-year design life.

Technical performance

Mechanical Results:

- **Wind load:** 1.05 kN/m²
- **Vertical load:** 2.28 kN/m
- **Brush fire resistance:** Class 1
- **Resistance to impact from stones:** Passed
- **Durability:** salt spray & oil resistance verified

Acoustic Results:

Airborne Sound Insulation (BS EN 1793-2:2012): DLR = 28 dB (Category B3)

Physical characteristics

Panel dimensions: 2970 mm length × 250 mm height × 50 mm thickness

Mass per Unit Area: 17.7 kg/m²

Construction: Recycled PVC housing (smooth reflective surface, hollow chamber design)

Connection system: Tongue & groove, quick stack

Finish: Reflective face (non-perforated)

Installation guidance

- Mounted in steel U/I posts with timber packers
- Tongue & groove connection for rapid installation
- EPDM sealing strips reduce leakage
- Lightweight panels simplify handling on site

Compliance & certification



- BS EN 1793-2:2012 (Airborne sound insulation)
- BS EN 1794-1/2:2011 (Mechanical performance)
- BS EN 14388:2005 (Noise barrier CE/UKCA standard)
- UKCA & CE marking supported by BSI Report No. 30249272

Air by GenAcoustic changes the landscape through softer sound. Independently certified to BS EN 1793 standards, Air achieves $DL\alpha = 8$ dB (sound absorption) and $DLR = 28-29$ dB (airborne sound insulation), delivering reliable acoustic performance in a design that blends naturally into its surroundings. Made from recycled PVC housings with mineral wool infill, it is engineered to last up to 40 years with minimal performance loss reducing waste, replacement frequency, and carbon impact. The unique quick slot system ensures faster installation, reduced site disruption, and lower project costs. Resistant to rot, corrosion, salt spray, and oil spills, Air is proven to perform in the UK's most challenging environments. From highways to rail, utilities to industrial facilities, Air is the trusted choice for projects where sustainability, performance, and durability are essential.

Air Absorb v Air Reflect

Standard	Air Absorb	Air Reflect
BS EN 1793-1:2017 (Sound Absorption)	DL α = 8 dB	N/A (reflective panel, no absorptive layer)
BS EN 1793-2:2012 (Airborne Sound Insulation)	DLR = 29 dB (Category B3)	DLR = 28 dB (Category B3)
BS EN 1794-1/2:2011 (Mechanical Performance)	Passed (MFPA Leipzig tests: vertical load 2.28 kN/m, wind load 1.1 kN/m ² , fire resistance Class 1, impact resistance)	Passed (MFPA Leipzig tests: vertical load 2.28 kN/m, wind load 1.05 kN/m ² , fire resistance Class 1, impact resistance)
BS EN 14388:2005 (Noise barrier CE/UKCA standard)	Compliant	Compliant
Certification Body	BSI Approved Body No. 0086 (Report No. 30249272)	BSI Approved Body No. 0086 (Report No. 30249272)
Test Laboratories	University of Salford (UKAS No. 1262), MFPA Leipzig (DAkkS accredited)	University of Salford (UKAS No. 1262), MFPA Leipzig (DAkkS accredited)