



Eco-Barrier

ENVIRONMENTALLY FRIENDLY NOISE BARRIERS



With new freeways, roads and railways passing through high density urban areas and noise sensitive residential areas the increasing noise levels of environmental noise is of major concern.

NAP Silentflo's Eco-Barriers have been specifically developed with this problem in mind. They are designed for use in a wide range of applications and conditions.

Unlike many commonly used barriers that also reflect unwanted noise the Eco-Barriers come with absorptive faces to reduce unwanted reflected noise. They are a highly effective high performance absorptive type barrier.

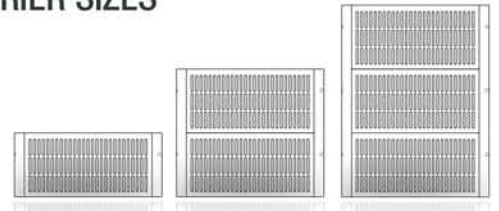
A wide range of colours and patterns is available.

CONSTRUCTION

NAP Silentflo's environmentally friendly Eco-Barriers are fabricated using recycled plastic waste in high density polyethylene/polypropylene. The modular panels feature a high performance inert fire resistance acoustic infill.

A range of patterns, colours and visual effects are available to ensure that the panels are aesthetically pleasing and blend in with the environment. The unique construction results in high structural strength and rigidity.

TYPICAL BARRIER SIZES



SPECIAL FEATURES

NAP Silentflo's unique Eco-Barriers have a number of advantages:

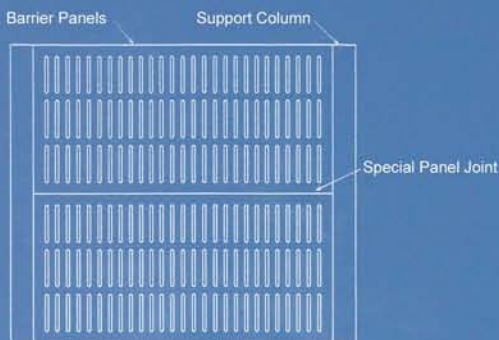
- Environmentally friendly, made from recycled materials
- Do not absorb moisture
- Resist most chemicals
- Will not swell, rot or delaminate
- Excellent weather and corrosion resistance
- High UV resistance
- Does not promote mould or bacterial growth
- Anti-graffiti
- Low maintenance
- Easy clean, non-stick surface
- Colour fully impregnated
- Excellent absorption characteristics
- Minimal noise leakage due to special interlocking system



APPLICATIONS:

- Highways and Freeways
- Elevated Roadways and Overpasses
- Railways
- High Speed Train Lines
- Light Rail Lines
- Tunnels
- Airports
- Industrial Sites
- Materials Conveyors

TYPICAL BARRIER CONSTRUCTION:



ECO - BARRIER PERFORMANCE:

NAP Eco-Barriers provide excellent transmission loss performance to ensure that noise does not penetrate the barrier. They also have high acoustic absorption performance, this ensures that unwanted noise is not reflected by the barrier.

The barriers have been tested in an independent government laboratory in accordance with nationally recognised standards.

The performance of the standard barrier is as follows:

| Frequency (Hz) | 125 | 250 | 500 | 1k | 2k | 4k | O/All | |
|------------------------|------|------|------|------|------|------|-------|-----|
| Transmission Loss | 15 | 17 | 27 | 38 | 43 | 44 | 31 | STC |
| Absorption Coefficient | 0.28 | 0.88 | 0.89 | 0.43 | 0.25 | 0.11 | 0.61 | NRC |

Alternatively custom barriers can be supplied with improved performance or specific performance characteristics to suit special applications.



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ECO - BARRIER OPTIONS:

The barriers are available in a range of sizes and colours to suit almost any application. Special patterns and even images can also be applied to the front face of the barrier.

The barriers can be configured to suit difficult terrain patterns or land profiles. Custom designs are also available to suit difficult or unique applications.

NAP Silentflo is the leading designer and manufacturer of noise control equipment in the Southern Hemisphere. For further details on NAP Eco-Barriers, including specifications, options, technical details and specific applications please contact your nearest NAP Silentflo representative

Represented by:

