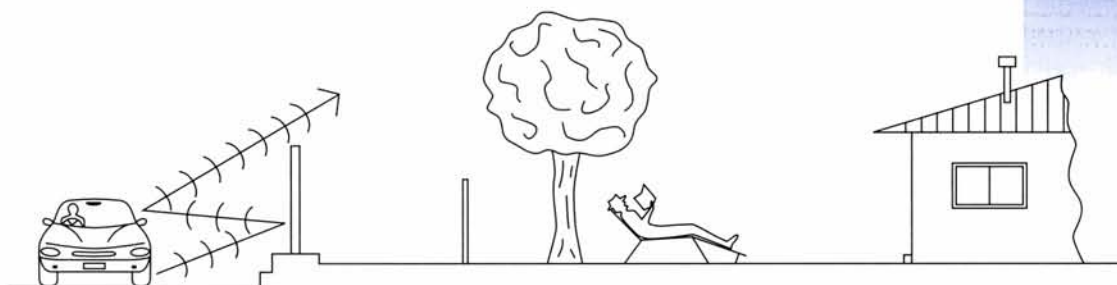


# NAP Noise Barriers

With new freeways, railways or arterial roads passing through high density residential or environmentally sensitive areas, the effect of increasing noise levels is of major concern.



In response, NAP Silentflo has developed a range of noise barriers to suit a wide variety of applications. NAP 'Soundbar' barriers come with absorptive faces. Reflective faces are also available upon request.

Absorptive barriers are more economical and effective than concrete reflective type barriers. Unlike timber and concrete barriers, the absorptive surface prevents reflection of sound. The barriers can be supplied in galvanised steel sheet to provide excellent weather resistance and guaranteed long life.

## Special Features

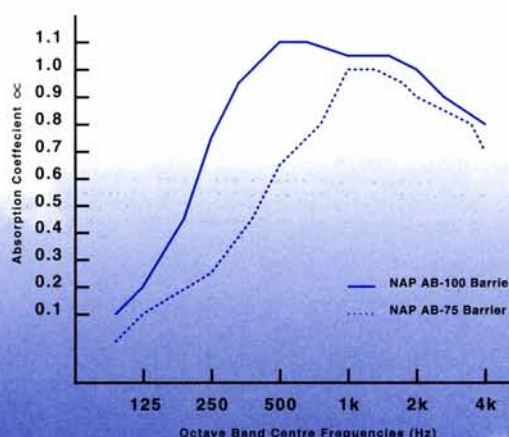
- Excellent absorption characteristics
- Solid and durable
- Excellent weather and corrosion resistance
- Modular design - ensures easy replacement
- Non combustible
- Vermin and vandal proof
- Meets wind loading regulations
- Attractive architectural finishes
- NATA Laboratory tested independently
- Minimal noise leakage due to special interlocking system

## Performance

NAP 'Soundbar' barriers provide high transmission loss to ensure that sound does not pass through. Additionally, the performance of an absorptive barrier depends on the sound absorption coefficient of the absorptive lining. An impervious membrane is used to protect the acoustic infill from the effects of weather.

The quoted absorption coefficients have been obtained from laboratory tests carried out at the CSIRO. All tests have been carried out in accordance with AS1045-1971.

Absorption Coefficient  $\alpha$  vs Third Octave Band Centre Frequency



## Applications

- Freeways
- Elevated Roadways and Overpasses
- Tunnels
- Railways
- High Speed Trains
- Airports
- Noise from Industrial Sites





# NAP Noise Barriers

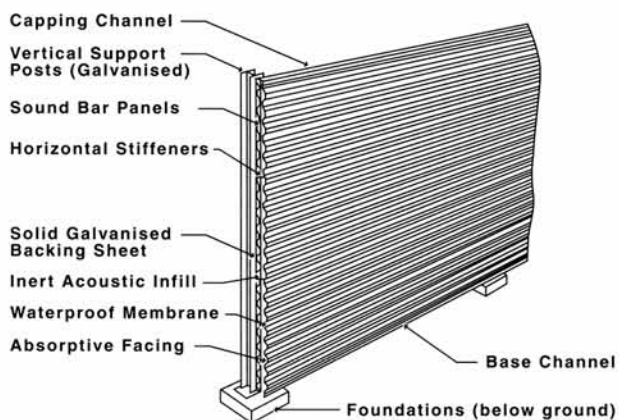
## Construction

The standard surface finish consists of galvanised steel sheet with a unique profiled rib that provides increased strength and acoustic performance whilst ensuring that the barrier is aesthetically pleasing.

Standard barrier panels are manufactured from heavy gauge sheet to ensure strength and rigidity and contain an inert and fire resistant acoustic infill.

All finishes are supplied powder coated and are available in an attractive range of colours. Special finishes, such as aluminium and stainless steel are also available.

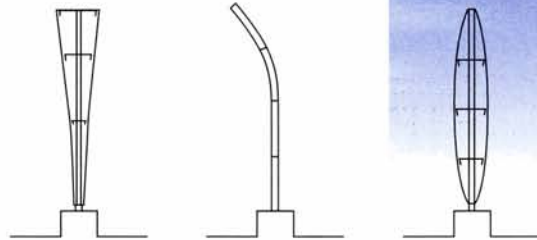
### Typical Barrier Construction



## Special Architectural Designs

A range of special architectural configurations are also available for sensitive residential areas where minimum environmental impact is required.

### Typical Architectural Barrier Profiles



Barriers containing geometric patterns and contrasting colours can be supplied. Panel sizes can also be varied to suit difficult terrain or land profiles.

Custom designs are also available to suit special or difficult applications.

## Options

In applications where the height of the barrier is to be kept to a minimum, for aesthetic or practical reasons, an optional absorptive capping can be provided.

The absorptive capping can significantly reduce the required barrier height. Additionally, the capping can be retro fitted to the standard NAP barrier if additional acoustic performance is subsequently required.

NAP Silentflo is the leading designer and manufacturer of noise control equipment in the Southern Hemisphere. For further details on NAP Soundbar Noise Barriers, including the range of material, technical details and specific applications, please contact NAP Silentflo.

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