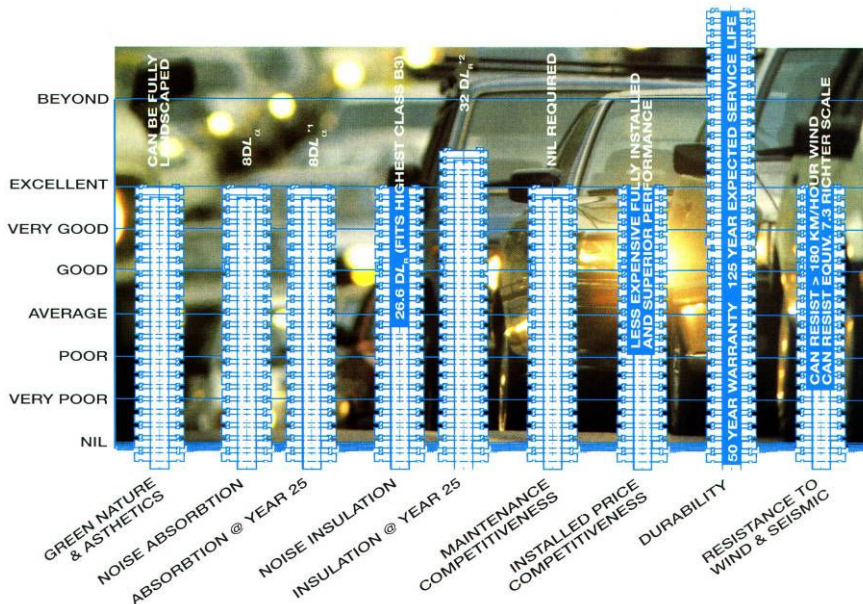
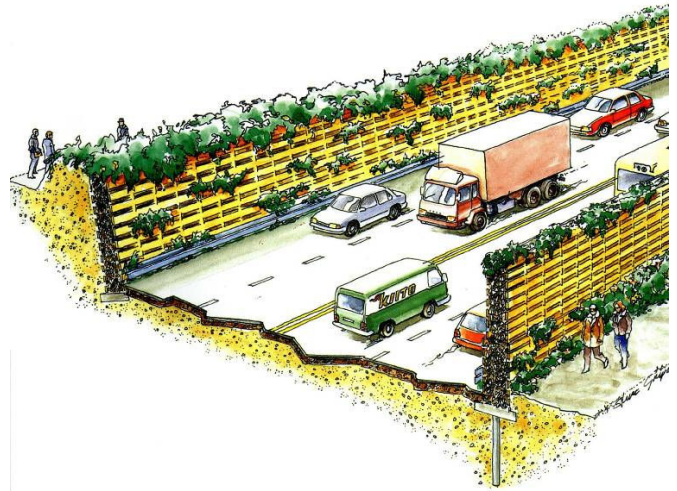


## *Phi Group* Permacrib® Environmental Noise Barrier

### Description

Permacrib® Environmental Noise Barrier has been designed as a green solution to assist in noise pollution. Exceptional acoustic performance, compliments a softer, natural appearance and walls may also incorporate planting for a truly green finish.

It is constructed using timber components to form a series of silos and filled with suitable infill material.

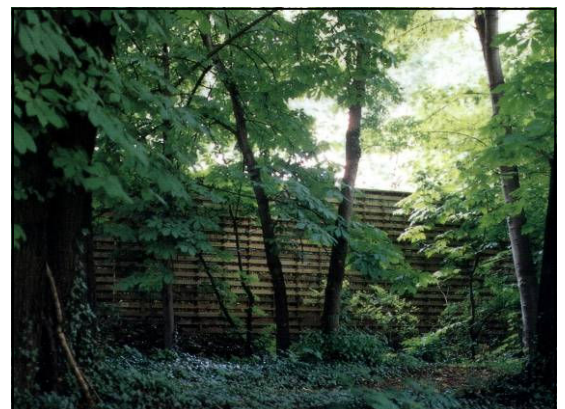


### Uses

- Highway verges and reservations.
- Railway stations and tracksides.
- Airports and heliports.
- Residential developments.
- Sports and recreation grounds.
- Theme parks.
- School Playgrounds.

### Advantages

- Full landscaping potential.
- 125 year expected service life with our BBA certified Permacrib timber.
- Engineered for maximum strength.
- Exceptional noise absorption.
- Reflects as well as absorbs noise, unlike standard panel noise barriers which only reflect noise.
- Provides a barrier against highway dust, fumes and light from vehicles.
- Versatile continuous construction giving ability to step with slopes and undulations.
- Significant height capabilities.
- Natural Appearance.
- Graffiti resistant, especially if vegetated.
- Flexibility gives seismic and earthquake resistance.
- Environmentally friendly.





# Acoustic Performance

## Airborne Noise Insulation

This system is designed to provide adequate sound insulation so sound transmitted directly through the wall is not significant compared with sound diffracted over the wall. (STC = 30, RW = 31)

## Sound Absorption

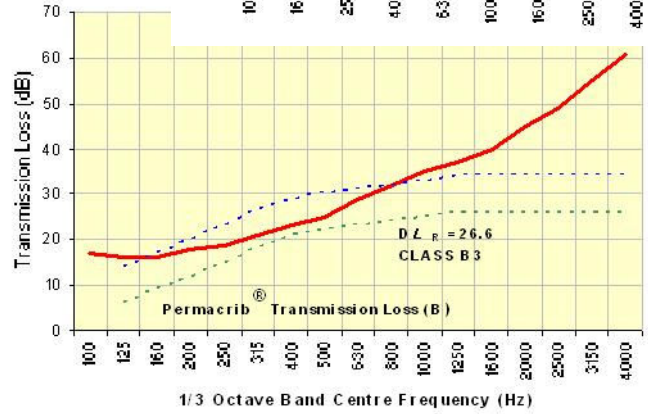
This system is designed to be effective as sound absorbing devices on the noisy side to reduce additional noise nuisance caused by reflected noise (NRC = 0.8 dB). Circumstances in which this treatment may be required include:

- Noise barriers, rocks or retaining walls that can reflect sound towards unprotected areas.
- Vertical cuttings or where reflective surface face each other.
- Tunnels and their approaches.
- Traffic passing close to barrier where reflection be-

Tests based on Permacrib Type 1 530 model:

(A) VTT (Technical Research Centre of Finland) method ISO 354-1985  $DL_n$  using PREN 1793-1 & 3

(B) AUCKLAND UNIVERSITY NZ method ISO 140/III  $DL_n$  using PREN 1793-2 & 3



## Typical Configurations

