



[The Advantages]

- Highest quality and excellent cost-benefit-ratio
- Best noise screening and absorption rates (bilaterally absorbent)
- Extremely long life cycle
- Short construction time
- No extensive deep foundation required
- Graffiti resistant - maintenance free when completely covered with vegetation
- Visually appealing - highly accepted by communities
- Non-climbable and child prove
- Maximum height 8 metres
- 80-90% less land requirements compared to earth walls

Patent
Registered

No. : 20 2004 012 489.0



Reference List at
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[k]nord
Umweltdienstleistungen

[shhhhh...!]



Innovative Noise
Reduction Systems

[k]nord
Umweltdienstleistungen

[Planted Noise Barriers]

highly effective - durable - economical



[k]nord offers a full range service in the design, specification and installation of noise barriers. Our services include:

- Planning and Design
- Design Specification and Calculations
- Applications Statements
- Construction and Installation

[Foundation]

The relatively low bearing capacity does not require extensive preparation of the ground, thus a deep foundation for our Noise Barrier Systems is not needed. Typically, a 20 centimetre gravel base layer is sufficient for the installation of our Noise Barriers.

[Design]

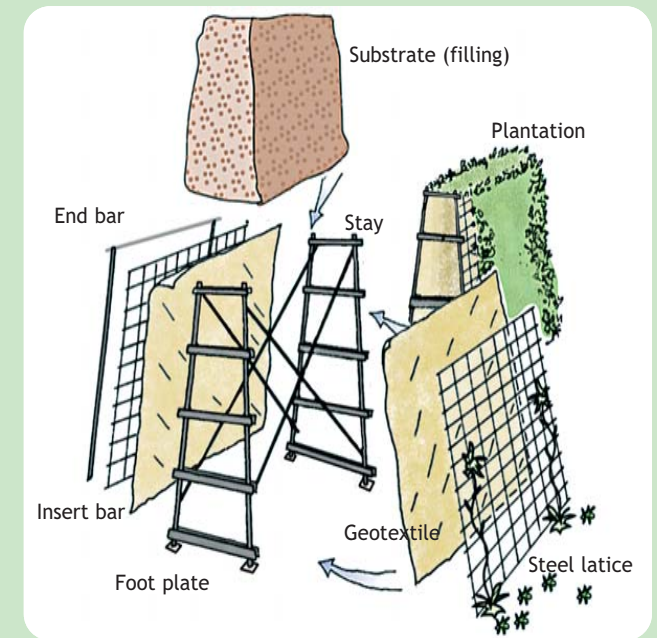
Our steel mesh design is assembled using large diameter hollow steel pipes or extruded full section pipes (KNL+T). The steel mesh tubing is galvanised to guarantee whole life cycle corrosion protection for our Noise Barriers.

[Filling Material]

The stable and rigid design of the Noise Barriers allows for various types of filling materials, including inhomogeneous soils, to be used compared to other available steel systems currently on the market.

[Upper Wall Frame]

The steel tube that is running along the entire length of the upper end of the Noise Barrier provides a consistent and precise top level of the construction.



[Planting]

Planting along the base of the Noise Barrier using site specific and well adapted climbing plants will guarantee a fast growing cover within a few vegetation periods only. Pre-seeded geo-textile mats are predominantly used at the top of the Noise Barriers. A full vegetation cover provides additional corrosion protection owing to a reduction of dampness within the Noise Barrier.

	Unit	1	2	3	4	5	6	7	8
Height above ground	m	1	2	3	4	5	6	7	8
Top Width	m	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
Base Width	m	0,89	1,01	1,12	1,24	1,35	1,46	1,58	1,70
Volume of filling material per running meter	m ³ /m	0,85	1,81	2,88	4,07	5,38	6,79	8,33	10,00
Bearing Capacity required	KN/m ²	27	47	72	101	124	147	169	192