

Environmental Noise Conference 2010



Requirements of Noise Barrier Standards

Testing Results

Health Effects



Who we are

Mr Gerd Heltriegel

Managing Director

Mr Adam Drozdzynski Sales Manager - Noise Protection

Team of experts for noise protection

Competence and experience in engineering

Partner of public authorities, architects, railways and industry



International









International supplier for road and railway noise protection

Member of international networks

Exchange of experiences



A strong partner in business

German market leading company

Over 3 million m² of Schütte noise protection in Europe and the world

Specialist for customised solutions

Full-line product portfolio for aluminium and glass elements

CE certification "Made in Germany" according to EVS-EN 14388:2007

Highly flexible and sophisticated distribution channels

Complete solutions from statics to planning to implementation



Health Effects of Noise



We take care of your health



Testing standards of Aluminium Noise Barriers

CE certification according to EVS-EN 14388:2007

Sound insulation - DIN EN ISO 140-3 / 1793-2

Acoustical absorption - DIN EN ISO 354 / 1793-1

Stone impact - DIN EN 1794-1

Snow loads - DIN EN 1794-1

Stability test



Testing standards of Glass Noise Barriers

Hammer test - DIN EN 1794-2

Stone impact - DIN EN 1794-1

Fire resistance - DIN EN 1794-2

Stability test

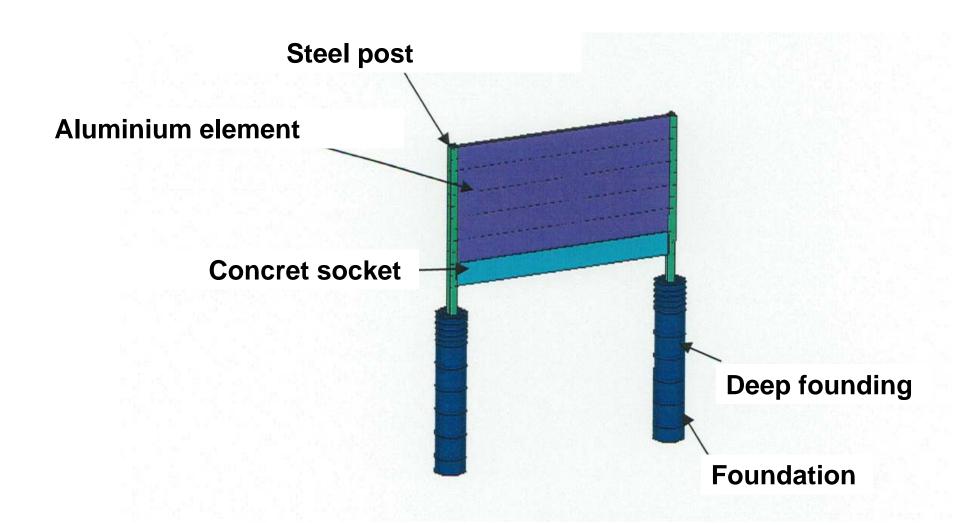


Hammer test



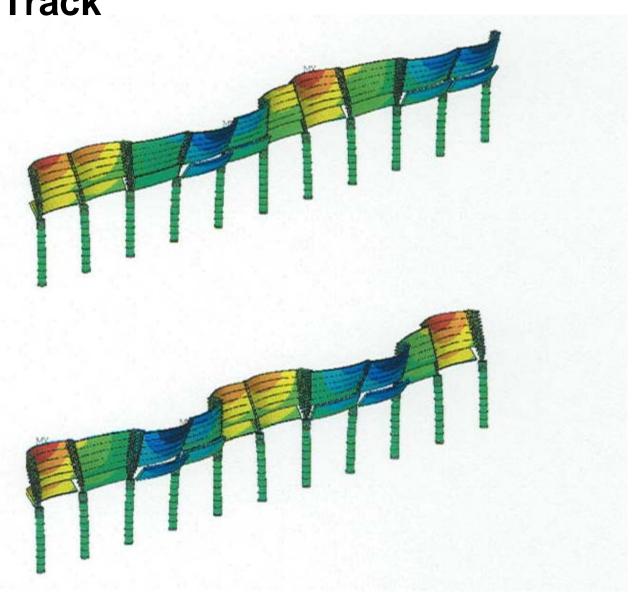


Foundation





Testing Track





Extruded aluminium sheath test





Aluminium side plate test

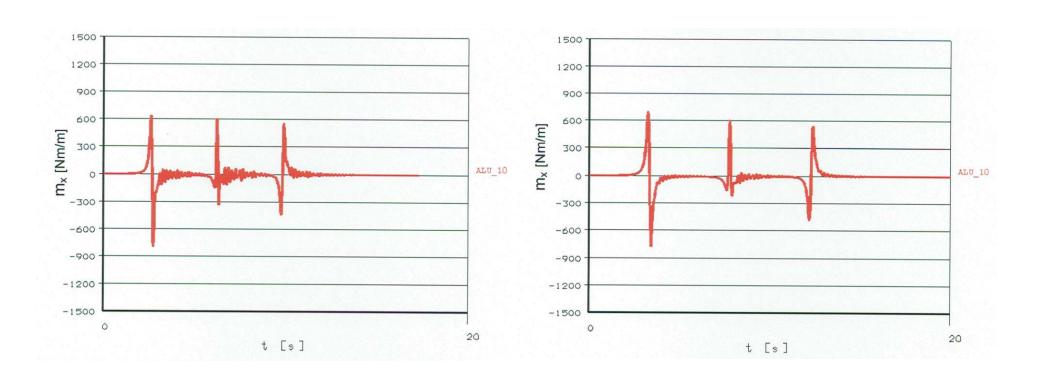




Life cycle 50 years and more

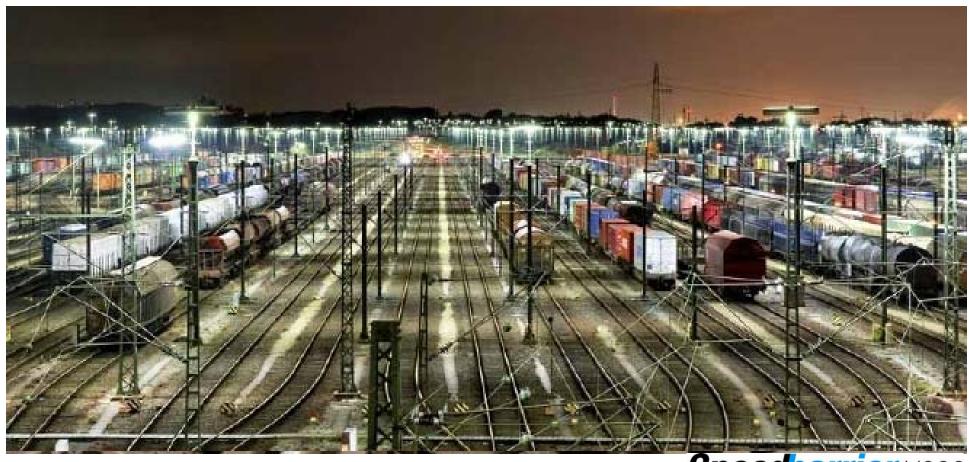
Function ICE Train 250km/h

Function Freight Train 160km/h





Certified by "Deutsche Bahn"



Speedbarrier V300



Designed for your health



IntenseBarrier 21dB

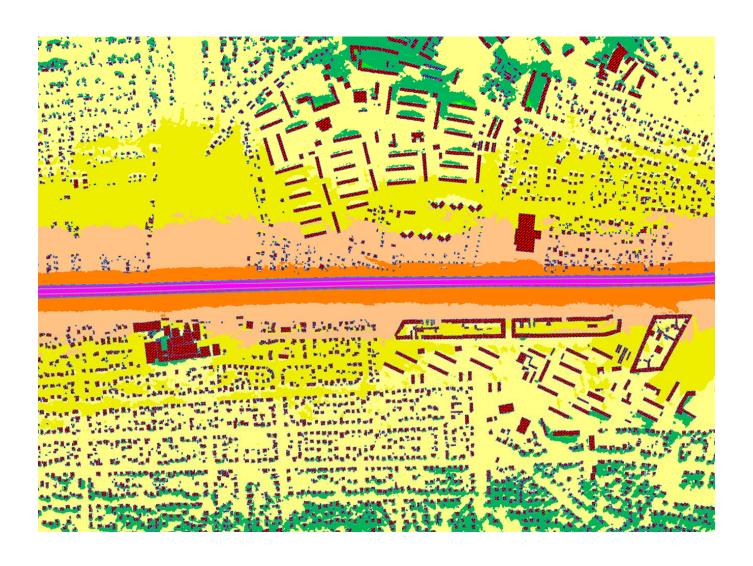


Berlin 2010 - without noise protection





Berlin 2010 - using IntenseBarrier 21dB





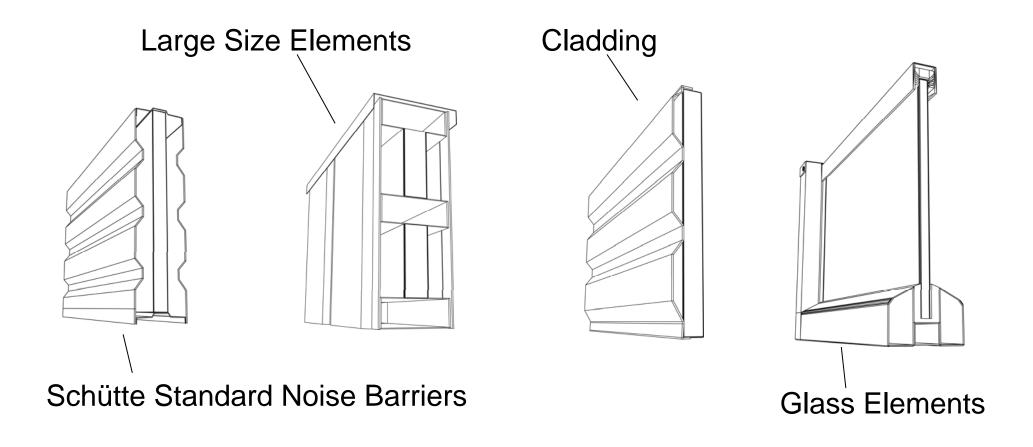
40% less noise



IntenseBarrier 21dB



Product Portfolio





Aluminium Noise Barriers

CE certification "Made in Germany" according to EVS-EN 14388:2007

Sea water resistance

All RAL and special colours available

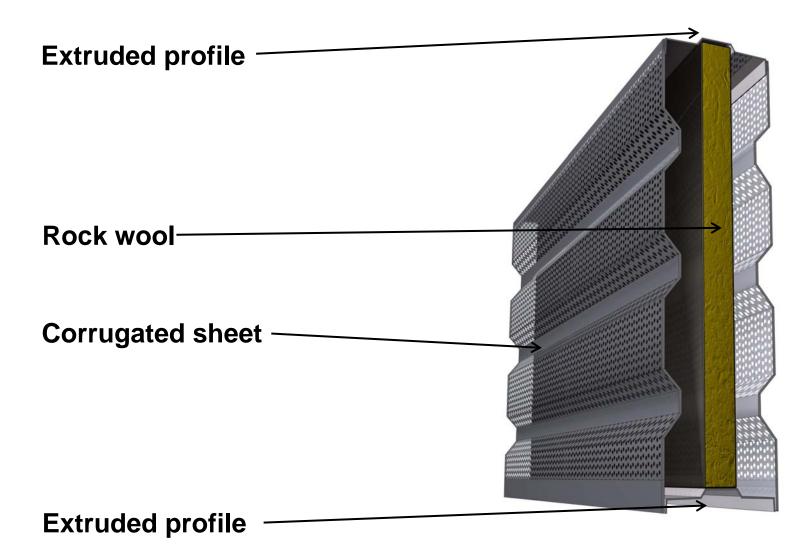
Permanent Anti - Graffiti coating available

Durability due to extruded aluminium profiles

Recyclable



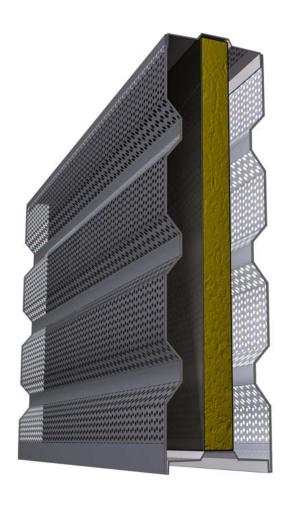
Schütte noise barrier





Schütte ELB

- Acoustical absorption (DLa) up to 21dB
- Sound insulation (Rw) up to 38dB
- Up to 6m length
- CE certification "Made in Germany" according to EVS-EN 14388:2007
- Snow ploughing resistant optional
- Standard height 500mm
- Single- or double-sided highly absorbent





Schütte ELB - References











Schütte 6m element length

Up to 20% cost reduction

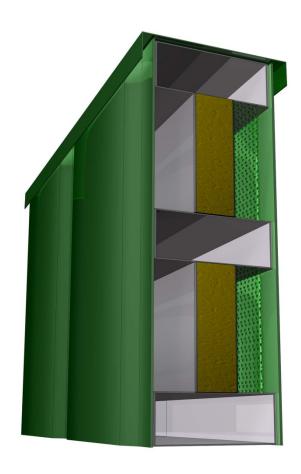
Risk reduction due to less foundations

Time saving



Large Size Elements (GF)

- Post clearance up to 6m
- Individual design options and custom-made shapes
- Photorealistic motives
- High stability based on frame construction





Large Size Element - References





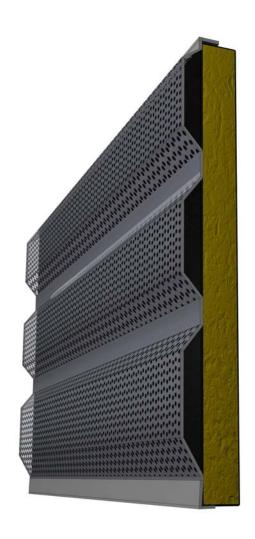






Cladding (VS)

- Acoustical absorption (DLa) up to 13dB
- Ideal for cladding of tunnels and subways
- Flexible assembly (vertical, horizontal, diagonal)
- Cost-effective assembly on every underground
- High durability through rear ventilation in case of wet underground
- Up to 8m lenght





Cladding - References













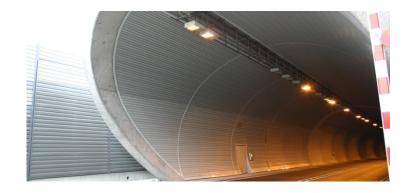
Silent Night.

Cladding for tunnels and subways by Schütte











Cost-effective



Cost-effective installation on uneven surfaces



Glass Elements

- Frame made of extruded aluminium profiles
- Large variety of design options using different frames and special glass applications
- Properties:
 - Acrylic glass: impact resistant, rigid, lightweight
 - Glass: rigid, heavy
 - Polycarbonate: impact resistant, lightweight





Glass Elements - References













Exceptionally quiet.

Custom-made solutions by Schütte











Exceptionally high



Airbus A380 in Hamburg



Exceptionally innovative



Photovoltaic noise barriers in Emden





Beautifully quiet.

Noise barriers with photorealistic surface coatings











Flexible



Ideal integration of the noise barrier in its environments through individual pictures and graphics



Schütte noise protection systems

CE certification "Made in Germany" according to EVS-EN 14388:2007

40% less noise - 21dB sound absorption (DLa)

38dB sound insulation (Rw)

20% cost reduction - up to 6m length elements

Rail approved







High Speed noise barriers

Long life cycle – up to 50 years

Suitable for tight track distances

Saves substantial costs in international metropolises

Project specific dynamic calculations

Top quality 'made in Germany'





Visit us at the fair "Lärmschutz" in Dortmund from 11. - 12. November





A strong partner in noise protection

30 years experience

Intensive research and development

Acoustical absorption (DLa) up to 21dB

Sound insulation (Rw) up to 38dB

CE certification "Made in Germany" according to EVS-EN 14388:2007

"Deutsche Bahn" certificated elements

Market leading company in noise protection





Estonian road nr 9 Ääsmäe - Haapsalu - Rohuküla km 49,4 - 64,2





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Estonian road nr 9 Ääsmäe - Haapsalu - Rohuküla km 49,4 - 64,2





Estonian road nr 9 Ääsmäe - Haapsalu - Rohuküla km 49,4 - 64,2 (Palivere - Rannaküla Noise barrier building at 2009)





Estonian road E20 Tallinn-Narva road





Estonian road E20 Tallinn-Narva road



Special references



Estonian road E20 Tallinn-Narva road (Kukruse- Jõhvi Km 156-Km163 Noise barrier building at 2010)





Estonian road E20 Tallinn-Narva road



Our slowest workers

