



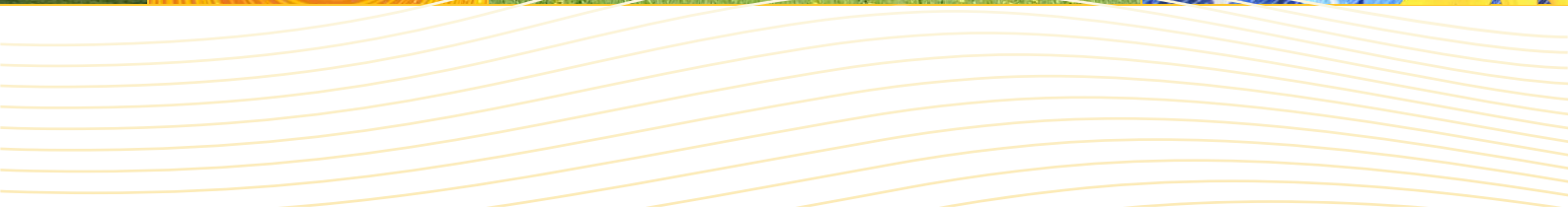
# KOHLHAUER® NOISE BARRIERS – QUALITY OF LIFE

## KOHLHAUER VOLTA® - THE SUSTAINABLE SOLUTION

Austria · Bosnia & Herzegovina · Bulgaria · China · Czech Republic · France · Germany · Greece · Hong Kong · Italy · Korea · Latvia · Netherlands · Poland · Romania · Serbia · Spain · Sweden · Switzerland · Turkey · United Kingdom

### PHOTOVOLTAICS

Noise protection with  
integrated Photovoltaics  
Trendsetting  
Multifunctional



# KOHLHAUER **VOLTA**<sup>®</sup> – UTMOST FUNCTIONALITY FOR SUSTAINABLE NOISE PROTECTION

KOHLHAUER **VOLTA**<sup>®</sup> offers a complete new world of perspectives in noise protection. Unmatched sound insulation and absorption combined with solar power generation provides a significant contribution to environment protection. Whether at roadsides or railway tracks, transparent or opaque design, east-west or north-south-direction – KOHLHAUER **VOLTA**<sup>®</sup> offers the perfect product for any application.

## APPLICATION

KOHLHAUER **VOLTA**<sup>®</sup> noise protection elements perfectly combine an appealing finish with the most easy assembly and technical expertise. Kohlhauer **VOLTA**<sup>®</sup> integrates solar technology in the proven Kohlhauer noise protection elements. The perfect alignment of noise protection, solar modules and electric output enables defining standardized elements for almost any type of application.

### Benefits

- Increased environmental protection contribution without additional costs
- Decentralised sustainable power generation
- Positive impact on the image and acceptance of noise barriers by residents
- Suited for autonomous operation
- Double use reduces the consumption of additional cultivated land and land use conflicts
- Cost synergies between noise protection photovoltaics enable significant economic savings

### Product features

- High standardisation level for all elements
- Optimised electrical output up to the energy provider's network connection
- Solar modules can be replaced easily in case of a defect
- High sound insulation and absorption available, depending on the basic element
- KOHLHAUER **VOLTA**<sup>®</sup> offers the use of Photovoltaics to any investor
- Integrated cable conducts with flexible cover



Skierniewice | Poland



## PRODUCT PORTFOLIO

### KOHLHAUER VOLTA® OPAK

For applications that require high sound insulation and absorption.

- Standardized noise protection 3.960 x 1.000 mm
- Offers all benefits of the innovative bothside absorbent Grid-Insulation-System
- Integrated security to avoid theft of Photovoltaics moduls

#### Technical module specifications:

- Aluminium frame moduls with 250 Wp of different supplier possible
- 2 pieces/element = 500 Wp at 4.00 m<sup>2</sup> (3.96 x 1.00 m) surface of Noise Barrier

### KOHLHAUER VOLTA® THRU

For applications that require "transparency" in addition to high sound insulation.

- Standardised noise protection elements of 3.000 x 1.000 mm as well as 1.960 x 3.000 mm
- Sound insulation >30 dB
- Compatible with KOHLHAUER **SCORSA**® and other elements

#### Technical module specifications:

- Wafer between 2 sheets of security glass
- Also available with colour finish
- Transparency of 10% - 30%, customer specific possible
- Thickness of sheet 2 x 8 mm up to 2 x 10 mm
- Integration in Aluminium frames for quick installation

**NEXT GENERATION: Standardized package for independend use of urban furniture -**

**Noise-/Sight-/Wind Protection - Light advertising - Electrical power support through small wind turbine.**



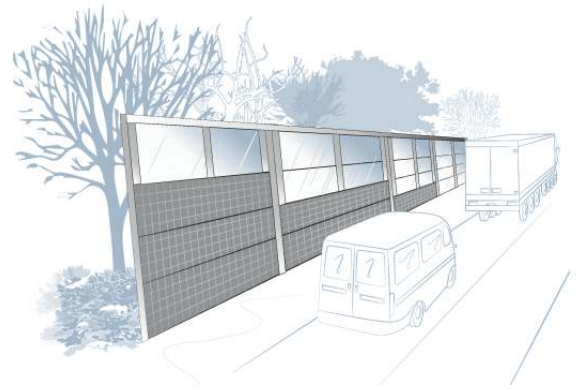


KOHLHAUER

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**MORE KOHLHAUER® PRODUCTS**



KOHLHAUER  
**SCORSA**

Transparent, reflecting re-  
spectively absorbent noise  
barrier systems with trans-  
parency and glare shield.



KOHLHAUER  
**PLANTA**

The plantable noise  
barrier - eco-friendly,  
sustainable and  
highly functional.



KOHLHAUER  
**ALUFERA**

The reasonable and proven  
all-round Grid-Insulation-  
System (GIS) with many  
design-variations.

