

# Innovations in Noise and Environmental Protection



K O H L H A U E R



**“Any progress is due to unsatisfied people, because satisfied people do not like any changes.”**

## Solutions for noise control with best perspectives

In 1993, the company R. Kohlhauser GmbH was founded by Reinhard Kohlhauser under the premise of offering “noise protection and more” and providing flexibility as well as versatility. Today, Kohlhauser considers itself as a system supplier for noise control and environment management who can offer clear benefits.

- Own-developed innovative solutions for noise protection with highest transparency.
- A high-quality and economic product portfolio to meet the most diverse requirements.
- extensive know-how in planning, logistics, production and distribution of system components for road and rail noise control projects.

The product range has been gradually extended according to market requirements. The constructive cooperation with leading raw material manufacturers and suppliers has played a vital role in this. Furthermore with its Soundgard ST and Soundgard TOP® products, Kohlhauser has developed a new standard and established its name within the industry.



Moreover, with the latest product from the Kohlhauser think tank, Clearwall®, a system that is both transparent and highly absorbing, Kohlhauser shows innovative potential and a clear orientation towards the requirements of the industry.

Renowned architects, planning agencies and authorities trust in the know-how of a reliable and open-minded partner when it comes to new technologies for sound protection, environment and the quality of life.



Warehouse/Administration



Production

**New developments open up new horizons.**

The highly transparent sound protection sheets named Soundgard ST and Soundgard TOP®, developed by Kohlhauser, feature an effective sound protection in connection with an aesthetic demand. They fit in well into the landscape without obstructing any view or blocking light and are convincing because of clear functional properties.

**Everything is quiet and clear.**

**Clearwall®.**

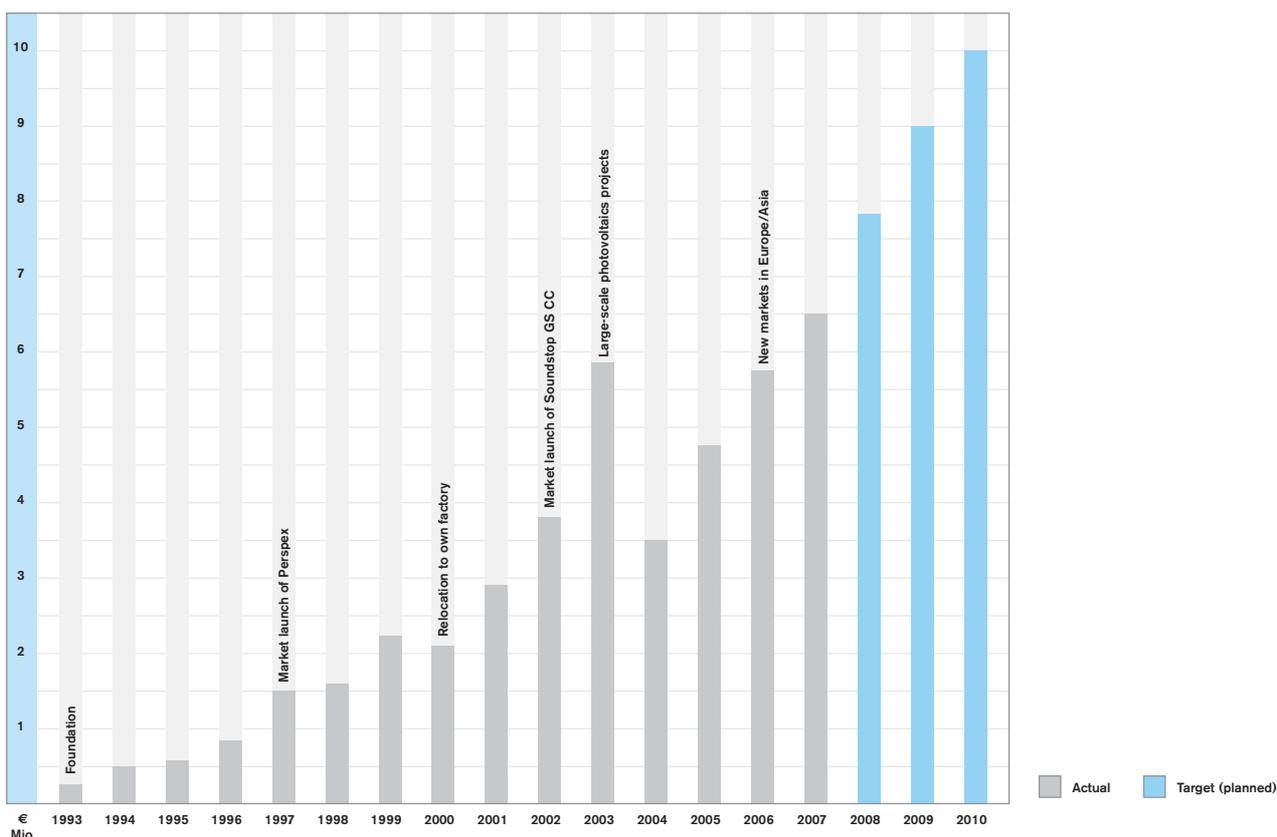
So far, noise-absorbing sound protection was a rather hopeless venture. With its new development called Clearwall®, Kohlhauser is the first manufacturer to offer excellent views with a transparent and at the same time highly-absorbing system. Thanks to the innovative lamella technology that can be arranged either vertically or horizontally, the system achieves absorption values of 4 to 8 dB while at the same time providing best view of the landscape!

**Thinking through, joining in.**

A new challenge is the integration of photovoltaics into existing or planned sound insulation walls. They offer double-benefit sound protection combined with ecologically agreeable energy generation. In order to design economic solutions that are built according to the latest developments in technology, Kohlhauser closely cooperates with well-experienced partners from the photovoltaics industry. Successful objects, among other things, were jointly realized in Freising and Zurich.



**Company development:**



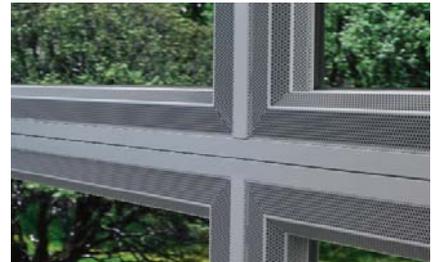
## Most varying demands require a wide range of smart solutions

“The exciting thing about intelligence is that one is continuously forced to learn something new.”



### Kohlhauer® Clearview

This highly-transparent sound insulation wall made of acrylic glass excels through excellent optical properties, longevity and resistance to atmospheric corrosion (10 years warranty) as well as best sound control properties. Because of its variable formats and thicknesses, its availability in various colours and special designs, Kohlhauer® Clearview provides a lot of scope for creative opportunities, e.g. in combination with wooden sound protection elements of type Beck BL 99a and variants.



### Clearwall® HS

This is a new, transparent and sound-absorbing system that meets all requirements set in the Deutsche Bahn AG (German Rail) standards ZTV-Lsw and DS 800.2001. It is specially suited for sound protection measures at railway lines and for design areas that shall not risk the highly-absorbing effect of opaque materials. Special coating systems ensure their unsuitability for “graffiti artists”, because spraying colours can be easily removed from the specially sealed surfaces.



### Wooden systems

Sound protection systems made of wood fulfil all essential requirements that are set by architects and landscape planners with regard to environment and landscape conservation. Wood is the ideal material when it comes to visual effects and flexible design.

Sound protection along roads and rails, sound protection on bridges and open spaces, sound protection in the vicinity of housing and industrial estates. Each application makes different demands: in terms of the planner's creativity, with regard to the functionality of materials and the efficiency of the solutions. Kohlhauser offers a solution for everything by means of a product range that fulfils highest demands in terms of shape and function.



**RockDelta® Green**

This plantable sound insulation wall made of rock wool with unique, environmentally friendly properties has to be built both in an intensive and extensive design. It features excellent sound-dampening and highly-absorbing properties on both sides with little space required and quick assembly.

**Plexiglas Soundstop® GS CC**

This material with integrated polyamide filaments is used particularly in settings where exposed places exist in the sense of specification ZTV-Lsw. The integrated guard rail ensures a maximum of safety. Of course, Kohlhauser offers approved accessories, such as stainless steel ropes, EPDM seals for soundproof fastening at bases and bridge fenders as well as posts.

**Frames and support systems**

Depending on the relevant construction and requirement, Kohlhauser offers individual supports and frame systems in aluminium and steel. These can be mounted in an easily and efficiently, require little maintenance effort, are aesthetic and have a high-grade finish. Static and constructive variants allow for every combination with opaque systems.





**“Every improvement means progress, but not every progress is an improvement.”**

## **Occasionally, animated discussions are under way in order to achieve silence.**

With Kohlauer, you are assured a team of competent design, engineering and production experts in the field of sound protection and environment management. In close cooperation with leading manufacturers we can offer a wide product range to meet all requirements.

In cooperation with our longstanding customers but also with new customers, we should like to realise successful projects now and in the future. While doing so, we see excellent growth opportunities in Europe and Asia to extend our competence in the market. Please contact us to talk through your requirements!



Depending on the relevant project, cooperation with our customers takes a different approach. With Kohlhauser, you can discuss matters on an individual basis and be sure to achieve convincing solutions. Whether it is about an aesthetic demand, variety in design, profitability analyses, planning assistance or reliability in logistics and finish, you can count on us – in every respect.

### Our credits:

In recent years we have implemented, large-scale standard projects. Furthermore, we were engaged in impressive objects underlining Kohlhauser's performance.



#### Freising:

Production and logistics for 970 pieces of aluminum frames with approx. 9,000 pieces of photovoltaic modules. Completion within 10 weeks. The 620 kW peak capacity achieved represents the biggest PV/LSW combination worldwide and is able to supply a huge number of households with power.

#### Strasbourg:

Production and logistics for 6,000 m<sup>2</sup> aluminum elements on both sides with different patterns, which, sorted by mounting order, led to a more efficient building process. Production could take place in Gaggenau thanks to our own premises there.

#### Copenhagen:

Delivery, cutting and imprinting of 1,000 pieces of Kohlhauser® Clearview acrylic glass plates. With the help of product-technical advice provided by our Scandinavian partners, 3,700 m<sup>2</sup> of acrylic sound insulation walls could be installed. The slight green colouration of the raw product creates the effect of silicate glass that is often required by architects for aesthetic reasons.

#### Burgweinting (Rail):

Joint project with major customers: Clearview in a grey toned coloration was used along more than 1,000 metres of railway line.

Kohlhauser, in cooperation with our steadily increasing customer base, has so far supplied more than 150,000 m<sup>2</sup> of sound insulation elements in various designs. Whether it is an opaque or transparent solution, whether in wood, aluminium, silicate or acrylic glass, polycarbonate, or with integrated photovoltaics, Kohlhauser offers an extensive product range for innovative solutions in sound and environment protection.



Freising Project – Motorway A92



Strasbourg Project – M 65



Burgweinting (Rail) Project



## The Kohlhauer product range includes:

### Transparent noise protection

- Clearwall®
- Clearwall® HS
- Soundgard TOP®
- Plexiglas Soundstop® GS CC
- Kohlhauer® Clearview

### Systems

- Frames
- Posts
- Accessories

### Opaque noise protection

- Wooden systems
- RockDelta® Green

### Photovoltaics with noise protection

- opaque
- semi-transparent



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