



KOHLHAUER® NOISE BARRIER SYSTEMS – QUALITY OF LIFE **KOHLHAUER SCORSA® - SILICATE GLASS SOLUTIONS**

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

SECURITY GLASS

Single or multi layer (SG/LSG)

Variable surfaces

Innovative potentialities



KOHLHAUER **SCORSA**[®] – EXCELLENT TRANSPARENCY

KOHLHAUER[®] SILICATE GLASS SOLUTIONS

Silicate glass is an ambitious and rising sheet material for transparent noise barriers. The selection of different materials and the wide range of possibilities meet all requirements for sustainable noise protection.

Solutions for noise protection with best prospects

Due to its global availability, KOHLHAUER[®] single-pane security glass (SG) is a price-efficient alternative to other transparent materials.

The properties of single-pane glass, in conjunction with the KOHLHAUER SCORSA[®] frame, satisfy all requirements of EN 1793, EN 1794 and the German ZTV-Lsw 06. The glass is composed of a heat-treated pane, which during manufacture is heated to above 600°C and after this cooled down with cold air. During this process, the outsides of the pane cool faster than the core. This results in tensile stresses in the core and compressive stresses at the surface. Consequently, the glass has high impact resistance and impact strength, and is resistant even to extreme temperature fluctuations. In case of fracture, it collapses into small pieces without sharp edges. Single-pane security glass has already been used for many years in the automotive industry.

Double Noise Protection

Laminated security glass (LSG) from the brand LNP (Lamex Noise Protection) consists of two or more layers of semi-tempered security glass (STG), or single-pane security glass (SG). By means of a sheet of PVB-film as an intermediate layer, these layers can be joined to create a laminated security glass with specific properties.

Benefits

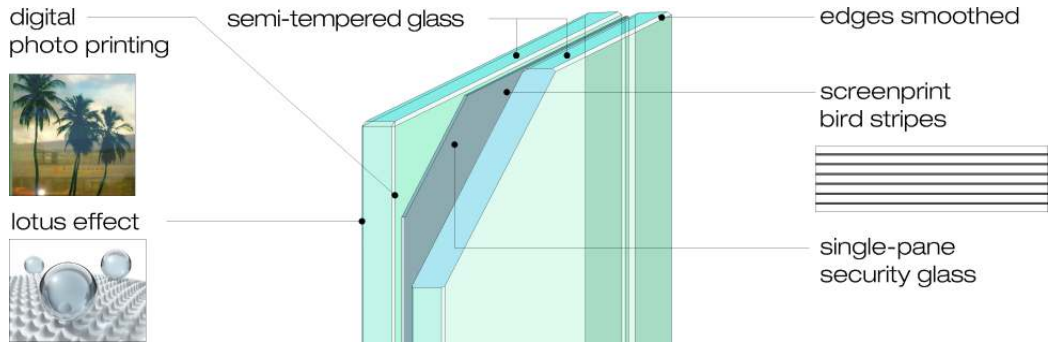
- Fulfils high standards of optical and architectural requirements
- Extreme resistance to chemicals
- Excellent stability against break guarantees LSG LNP out of 2 x SG/STG
- Weather resistance in all climates
- Suitable for all KOHLHAUER **SCORSA**[®] **FRAME** systems
- Digital photo printing design options
- High load capacity and high sound insulation
- Impact safety per EN 1794, in combination with KOHLHAUER **SCORSA**[®] **FRAME SF1**



Noise Barrier in Miesbach, Germany (digital photo print)

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KOHLHAUER® SILICATE GLASS SOLUTIONS



The properties of security glass were tested and proven. The following tables show the element properties.

KOHLHAUER SCORSA® FRAME-R 'Road' WITH SINGLE-PANE SECURITY GLASS (t=12 mm)

Format	3960 x 1000 mm
Airborne sound insulation	$DL_R = 29$ dB (Group B3)
Element dry weight	1,31 kN
Wind load (characteristic value)	1,02 kN/m ²
Load from snow clearance	10 kN/(2x2 m)
Impact of stones	Fulfilled
Resistance to brushfire	Group 3
Estimated service lifetime	>30 years

KOHLHAUER SCORSA® FRAME-B 'Bridge' WITH LAMINATED SECURITY GLASS LNP (t=2x10 mm)

Format	1960 x 3000 mm
Airborne sound insulation	$DL_R = >33$ dB (Group B3)
Element dry weight	2,94 kN*
Wind load (characteristic value)	1,75 kN/m ² *
Load from snow clearance	15 kN/(2x2 m)*
Impact of stones	Fulfilled
Resistance to brushfire	Group 1
Estimated service lifetime	>30 years

* Theoretical values determined by calculation, test results may vary.



Noise Barrier in Neckarsulm, Germany – KOHLHAUER SCORSA® (digital photo print)



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The plantable noise barrier - eco-friendly sustainable and high functional.



Double benefit: Noise barrier combined with sustainable power generation through solar technology.

