PHOENICIA SAFETY glass is a transparent laminated, high-quality glass that provides maximum safety without compromising the glass properties. The composition of PHOENICIA SAFETY Glass includes laminated layers of glass with an interlayer of PVB (a plastic polymer) in thickness determined according to the final use of glass. In case of breakage, the PVB layer will hold the glass in its original form and will not shatter to pieces, so that the glass remains intact as a single unit, preventing injury from cuts or falling through it. This feature does not influence the transparency of the glass; and in fact, this glass looks just like an ordinary glass, only much safer for use.

PHOENICIA SAFETY glass enables many glazing solutions, from glazing with a continuous grip on one side of the glass to a four-sided grip glazing.

PHOENICIA SAFETY glass is durable and provides maximum safety, without compromising on life behind iron safety bars.

**Phoenicia Safety Glass is recommended for many uses:**
- Windows in large apertures
- Showcases
- Cladding of walls and large facades
- Railings and barriers
- Transparent interior partitions, and more.

PHOENICIA SAFETY glass is available in a variety of sizes, enabling a wide range of uses, where there is a demand for a quality safety glass that will last for years. It is also possible to add features according to standards for forced entry resistant glass.
When glazing with Phoenicia Safety glass, there are additional advantages:

- Improved acoustic filtering compared to a monolithic glass.
- Filtering out over 99% of harmful UV rays, which cause skin diseases and fading to furniture.
- The option to add about 17,000 color gradients and transparency levels to the glass.

Technical performance of laminated SAFETY glass 44.1
(two glass sheets 4 mm thickness each, PVB 0.38 mm)

- **Rw (Db)**: The degree of reduction in noise level passes through the glass, measured in decibels.
- **VL**: Visible light from the Sun
- **VLr**: Visible light reflection - The percentage of light reflected outside.
- **IR**: Infra red solar heat, part of the visible light
- **Irr**: Solar energy reflection - The percentage transition of solar energy reflection.
- **UV**: Ultraviolet radiation, part of the visible light
- **LT**: Visible light transmission - The percentage of visible light transition.
- **EA**: Energy absorption
- **ET**: Solar energy transmission - The percentage of solar energy transition.
- **U-Value**: (Heat transfer coefficient) W/(m²/K) - The degree of heat transfer through the material and its effect on temperature transfer.
- **G-Value**: (Total Solar energy transmission) - Coefficient of heat transfer of the total percentage of solar energy transfer.

Notes:

- All data are nominal values, subject to the tolerance of the product and without obligation. Since a glass window consists of several parts, there is no guarantee that the final product will display these values.
- According to EN 14449:2005 / EN 12543:2011 laminated safety glass, which is intended for use in buildings, doors, balustrades, furniture, fittings or other uses, wherever required by law or regulations or wherever is desired.
- Low final values indicate higher insulation of the glass.

PHOENICIA SAFETY is manufactured according to international regulatory requirements of strict regulatory institutions such as ISO (the International Organization for Standardization), EN Standard of the European Union and has been inspected according to test methods defined by the International Organization for Standardization ASTM, and more.

To ensure that the Phoenicia glass application complies with all applicable laws, regulations, standards, codes of practice and other requirements, it is recommended that the Phoenicia glass processor consult with a qualified Phoenicia consultant regarding the instructions for processing, such as how to successfully store, handle, process and install Phoenicia glass. Instructions can be obtained directly from Phoenicia.

Clarification: The information presented in this publication is a general description of the product and Phoenicia will not be responsible for any inaccuracies or omissions in this publication and any implications of adherence thereto. This liability is imposed on those who use the information.