

Siplex® VSG – S

Added safety at a low specific weight



- **Laminated safety glass in accordance with DIN EN 12543 – Safety against ball throwing in accordance with DIN 18032-3**
- **Impact resistant in accordance with DIN EN 50102**
- **Siplex VSG – S the new, thin laminated safety glass with excellent residual load capacity**

This laminated safety glass is highly break-resistant and splinter-resistant, with a total thickness of just 4.8mm. The unique feature of the glass is that it is able to withstand the specified impact by a handball or hockey ball to be classified as "resistant to ball throwing without restrictions" when installed*. In comparison, a minimum thickness of 8.8mm is recommended for commonly available laminated safety glass to ensure only a restricted level of resistance to ball throwing.

This means that the glass can withstand the impact of a handball, but not that of a hockey puck. VSG-S has withstood impact testing by the Materials Testing Institute at the University of Stuttgart with a total thickness of 4.8mm, without any restrictions. Siplex® VSG-S is a thin laminated safety glass which fulfills DIN safety requirements.

Thanks to the specialised structure of VSG-S, we have been able to achieve a weight savings of 10 kg per pane, with a pane size of 1 square meter! Impact strength by IK testing class in accordance with DIN EN 50102 indicates a rating of IK 10. The glass is able to withstand a ball-drop test with a 5 kg steel ball from a height of 40cm without visible damage to the pane.

Siplex® S is also available as Siplex® LED with different levels of grey or brown tinting, or in combination with the Sunstop foils Siplex® Solar Control and Siplex® -Protect. (we can manufacture any thickness > 4.8mm)

*In general, MPA certification testing on installed panes is required to be certified as "safe against ball throwing"

Technical data

Basic materials:	Float glass, optically white float glass, chemically treated non-reflective float glass, optically non-reflective glass available upon request
Minimum thickness:	4.8mm (+/-0.4)
Min. dimensions:	330x270mm (smaller available upon request)
Max. dimensions:	1600x800mm (larger available upon request)