

OKASOLAR S Insulating glass with fixed optically regulated sun protection for roofs and sloping façades

Outer pane

Thermally toughened glass according to static and/or construction requirements, with a minimum of mm, with heat and/or combined sun and heat protection layer. Edge screen printing or edge enameling on position 2 are required to cover the technically necessitated expansion gap between the edge profile and the distance holder.

Cavity I

Total of 24 mm with hermetic insulating glass edge seal according to German Standard DIN EN 1279. The steel louvres are parabolically roll formed and have a highly reflective, UV resistant Feran coating. They must be carried out in a width of 29 mm wide, at an angle of 27° and a distance of 24.7 mm. The coefficient of expansion of the louvre material may not exceed a maximum of 13.10-6/K, the thermal conductivity a maximum of 50 W/(m²K). The insert must be free of volatile materials such as oil, grease, etc. This must be tested and verified by a Fogging Test according to German Standard DIN EN 1279-4.

The lateral mounting must be covered by a U-profile installed directly on the edge of the insulating glass.

The type and execution of the louvres shall be discussed with the manufacturer for each individual local irradiation condition, direction of the façade and use of the room behind it. The shading effect must be mathematically and graphically verified by a solar diagram which takes local solar altitudes into consideration. The corresponding documentation must be presented before approval.

Middle pane

Thermally toughened glass according to static and/or constructive requirements, with a minimum of mm.

Cavity II

8 – 12 mm with hermetic insulating glass edge seal according to German Standard DIN EN 1279 and gas filling depending on the Ug-value requirement.

Inner pane

Laminated safety glass of TVG (annealed glass). Glass thickness according to static and/or constructive requirements, with at leastmm, with heat protection layer.

TENDER SPECIFICATION



Technical data as required:

The structural values are to be verified by appropriate calculations and/or measurements.

Ug-valueW/m²K

Angle-dependent g-value

Incident angle γ	-30°	0°	30°	60°
Total energy transmission g ca.				

Light and radiation transmission

Incident angle γ	-60°	-30°	-15°	0°	15°	30°	45°	60°
Light transmission ca.								
Radiation transmission. ca.								