

Solar Glass Solutions



Seamless and Smart

OSG
Oran Safety Glass

The Company

OSG is the leading Israeli glass processing company, designing and manufacturing numerous types of applications for both the transportation and the defense industries. Implementing some of the most advanced technologies available today, we have been leaders in our field for over three decades, offering clients a wide range of top-tier transparencies designed and developed to suit their needs. Our diverse product range, service and flexibility have positioned us as a leading global supplier of choice.

OSG Solar Glass

Oran Solar Glass Solutions are a complementary platform for innovative solar products, leveraging the experience and expertise of Oran Safety Glass. Our solutions make use of the company's unique technical capabilities and extensive experience, offering clients a wide selection of versatile products that can be easily implemented into a diverse range of solar systems.

OSG specializes in double axis curved glass mirrors, providing cutting edge products that are highly effective and relevant for the energy requirements of the future. Due to their unique shape, these products are capable of achieving maximal solar concentration and energy collection as compared to other existing solar panel solutions. These curved mirrors provide the highest efficiency of sun power to electricity conversion compared to alternative technologies.

Making use of our highly advanced technology, we are able to produce a variety of advanced products in small quantities, defined according to specific requirements. Working alongside clients, from initial stages of product development through the final stages of mass production, our solutions are comprehensive and tailored to suit each of their precise needs. With vast experience and innovative curving capabilities, OSG is an ultimate supplier of choice for this rapidly growing sector worldwide.

The Solutions

Our solar glass solutions target two main segments: CSP (Concentrated Solar Power) and CPV (Concentrated Photovoltaics).

CSP (Concentrated Solar Power)

The CSP segment includes parabolic trough, paraboloid and spherical shaped glass mirrors. This solution incorporates numerous glass mirrors implemented in locations where large quantities are required. CSP curved mirrors enable the concentration of the sun's radiation to a central location, where it is then used to operate an electricity-producing engine.

CPV (Concentrated Photovoltaics)

This segment includes smaller-scale systems based on single and double-axis curved glass mirrors. Designed to suit a large variety of applications, these glass fixtures produce electricity directly, without the need for a large area of photovoltaic cells. This solution is highly flexible and efficient and may be implemented in a diverse range of locations.

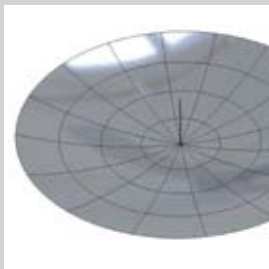
OSG Advantages

Working with OSG offers several valuable benefits, positioning us a unique and preferred partner of choice for numerous solar glass requirements.

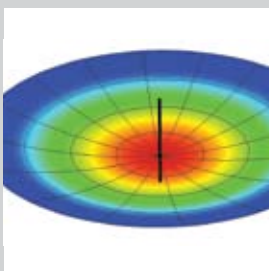
- 30 years of expertise in curved glass production, specializing in parabolic section and spherical shape curving
- Flexibility and quick response to clients' needs
- Able to produce a wide variety of tailored shapes
- Products can be tempered, strengthened or annealed according to customer requirements
- Highly skilled and experienced development team
- End-to-end solutions, including integration with system structure
- Technology enables prototype production, saving duplication costs
- Capable of producing parabolic trough mirrors, paraboloid and spherical mirrors for dish systems



Ray tracing of parabolic trough mirrors



"Micro Dish" mirror
1.2 m diameter



Curvature analysis of
"Micro Dish" mirror