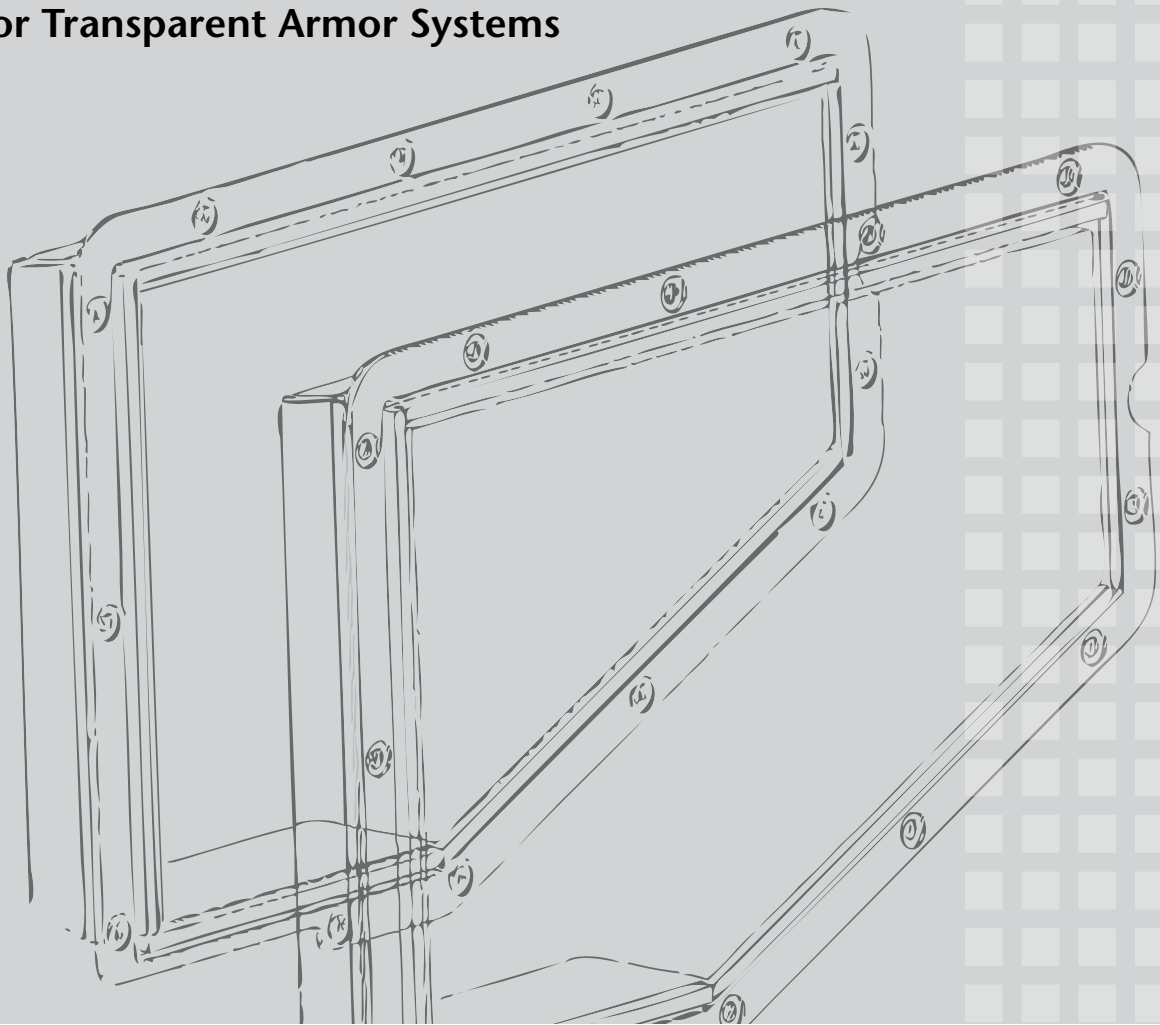


OSG-Armor

Frames for Transparent Armor Systems



Oran Safety Glass (OSG) offers its advanced transparent armor with or without **framing systems** as part of its comprehensive approach to the production of **ballistic windows**.

OSG utilizes 3-D modeling to design framing systems that fully integrate to all components of the vehicle design. We can provide prototypes and first articles that assure seamless integration of the transparent armor to frame and frame to vehicle body.

Frames can be produced from an array of materials including aluminum, steel, metal composites or non-metal composites. OSG's frames meet all ballistic requirements including kinetic, blast and frag as well as environmental specifications such as NBC, corrosion-resistance and performance in extreme temperatures.

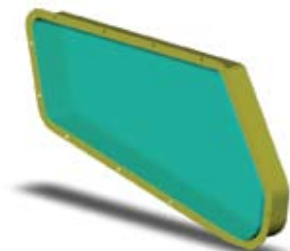
Aluminum frames can be marine grade to resist the corrosive effects of marine environments. Alternatively, aluminum frames can be aviation grade when specified. Aluminum is an excellent solution when it is important to reduce overall weight of the transparent armor system.

Steel frames can be of carbon steel components to reduce corrosion, or of armored steel when specified to increase ballistic performance.

Composite materials are available including polymeric composites. In some cases, proprietary gaskets are designed to fully integrate with the window to assure fit and performance. Polyurethane frames can be designed that mould right to the glass.

Frames can be designed to provide continuous electronic and magnetic shielding.

CARC and other special-grade paints and finishes are also available.



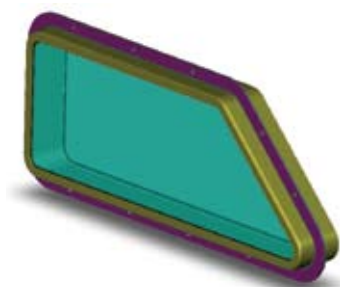
Drawing no.1
Carbon steel frame



Drawing no.2
Carbon steel frame with
gunport in the window



Drawing no.3
Combination of armor and
carbon steel frame



Drawing no.4
Carbon steel frame



Drawing no.5
Polyurethane frame moulded
onto the windshield



Drawing no.6
Carbon steel frame

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OSG
Oran Safety Glass