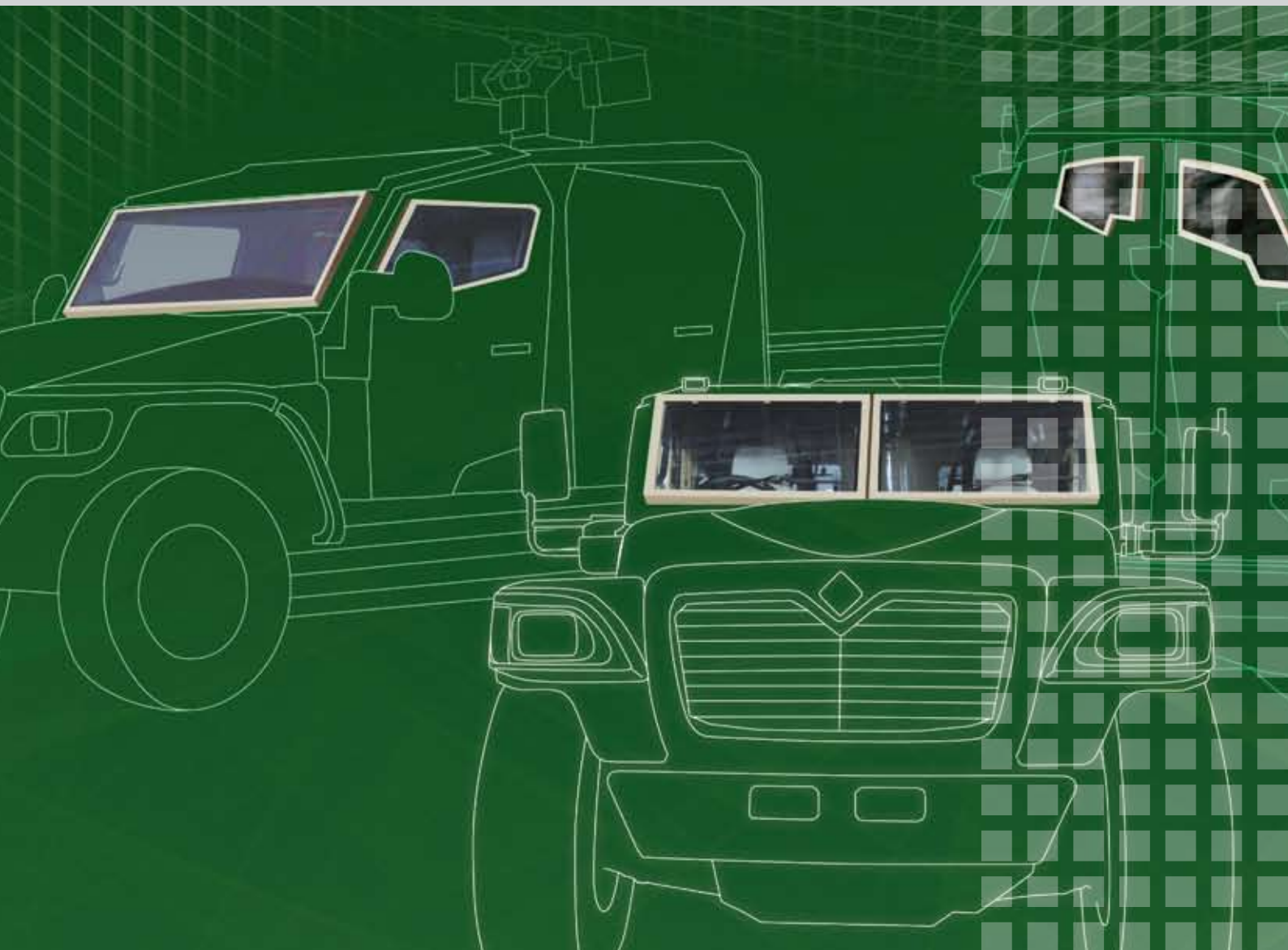


# Projectile Disruption Technology (PDT)



The future of transparent armor



Projectile Disruption Technology (“PDT”) Glass is one of OSG’s latest innovations. This dynamic approach to the design of transparent armor (“T.A”) offers two significant benefits when applied to windows in tactical wheeled vehicles:

- Reduction of weight while maintaining ballistic performance levels
- High Temperature performance increase with thinner and lighter materials

Each yields practical improvements over traditional transparent armor designs:

Weight reduction decreases wear and tear of vehicle components – especially the drive train and suspension – which increases vehicle lifecycle. Weight reduction also increases vehicle payload capacity and maneuverability. In short, reduction of weight improves vehicle performance, extends vehicle life and reduces costs.

High Temperature environments such as Iraq and Afghanistan present challenges for most vehicles systems from electronics to survivability. For traditional transparent armor designs, those challenges are answered with a thicker, and therefore heavier, composite. OSG’s PDT Glass handles the challenges and ballistic threat with a significantly lighter composite.

Projectile Disruption Technology (PDT) will allow reductions in weight at ambient temperatures when compared to ‘conventional’ transparent armor designs and will allow **31-35%** weight reductions under **high temperature** conditions.

The following chart presents the required MG composite compared to a conventional composite for ATPD-2352 – DTA 184044 Performance Class 3 - **High Temperature** threat level:

Traditional Transparent Armor	Weight	Thickness
	62.5 lbs / ft <sup>2</sup> (305 kg / m <sup>2</sup> )	130 mm (5.11 inches)

PDG Technology	Weight	Thickness
	43.0 lbs / ft <sup>2</sup> (210 kg / m <sup>2</sup> )	120 mm (4.72 inches)
	40.9 lbs / ft <sup>2</sup> (200 kg / m <sup>2</sup> )	120 mm (4.72 inches)
	38.9 lbs / ft <sup>2</sup> (190 kg / m <sup>2</sup> )	120 mm (4.72 inches)