



# LCA

## Light Composite Armor Multifunctional Panels

Ballistic, Blast, Forced Entry Protection in Buildings



**Defense Systems**  
Force Protection Experts

# About G.G. Defense Systems Ltd.

- Founded in 2007, our company offers solutions for various defense and HLS threats from blast mitigation to ballistic protection, from simple vandalism crimes to massive terrorist attacks.
- Our company provides solutions for complex protection applications, combining experience in force protection solutions and an extensive knowledge of materials and technologies.
- Our range of products and solutions comprise also light composite ballistic panels, personal protective plates and bullet-proof body armor.

## Our Clients



# Light Composite Armor

## The All-round Panel Protection

- **LCA** is an excellent solution for protecting buildings against ballistic, blast and forced entry threats.
- **LCA Panels** are currently the best cost-effective solution for protective infrastructure construction.  
These panels can be used to cover walls, doors, desks or any place protection is required.
- **LCA Panels** can be fit into steel frames just like standard drywall panels.  
Our panels are lightweight, thus easily carried, are easily cut, drilled, sanded, painted, textured using ordinary tools and are compatible with other wood or gypsum materials.
- **LCA Panels** are useful in prefabricated constructions such as mobile homes and are effectively implemented as protective partitions in reinforced office cubicles.

## Advantages

- Cost effective
- Easily handled and processed
- Ballistic resistance (up to EN 1063 BR6)
- Blast resistance (Up to 400 PSI\*MSEC)
- Durable and impact resistant
- Forced entry rated (L- IV ASTM F1233-98)
- Lightweight (compared to steel)
- 1 hour fire rating (ASTM E119-00)
- Good chemical resistance
- Provide additional electrical insulation

## Applications

- Military structures
- Embassies
- Police stations
- Courtrooms
- Critical control rooms
- Safe rooms
- Banks
- Cash boxes

# Light Composite Armor Technical Specifications

No	Model	Thickness (mm)	Max Panel Size (mm)	Weight Per SQM (Kg)	Ballistic Rating	Ammunition Type	Forced Entry Rating (ASTM F1233-98)
1	GGDS-EG67	6.7	1210*3040	14.3	EN 1522 FB2 / NIJIIa	9 mm	
2	GGDS-EG111	11	1210*3040	22.5	EN 1522 FB4 / NIJIIIa	0.44 Mag	Yes
3	GGDS-EG111-3	33	1210*3040	67	EN 1522 FB5	5.56*45 SS109	Yes
4	GGDS-EG355	35	1210*3040	73.7	EN 1522 FB6 / NIJ III	7.62 mmx51 FMJ	Yes
5	GGDS-EG500	50	1210*3040	92	MIL STD 662-F V-50	7.62 mmx51 AP	Yes

- **LCA panels** have advanced ballistic resistance at only 60% of the weight of an equivalent anti-ballistic steel panel.
- **LCA panels** can be used for both internal and external applications and are easily integrated into standard building plans to provide concealed ballistic, blast and forced entry protection.
- **LCA panels** finish is smooth and supplied in a light green color but it can be primed and painted, or covered by drywall or other materials to meet customer requirements.





# Defense Systems

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