



# LifePods

**MOMENTUM**  
TECHNOLOGIES

## B-01 PROTECTIVE CAPSULE

Ballistic Version 1 (B-01)

The B01 capsule is engineered to provide a survivable, protected micro-environment in extreme threat scenarios, combining ballistic resistance, thermal protection and structural reinforcement.



Designed for easy access, rapid sheltering and compact installation while maintaining a reinforced internal volume suitable for two occupants.

#### Dimensions

- Length: 1980 mm
- Width: 1600 mm
- Height (door closed): 1475 mm
- Height (door open): 1840 mm

#### Construction

- Reinforced internal and external steel shells
- 50 mm multilayer fiberglass insulation, providing thermal protection and impact absorption
- Internal tubular steel frame 50x50x5 mm (strategic reinforcement zones)
- Structural geometry designed to dissipate shocks and maintain interior survivability

#### Ballistic Protection

- Dual steel structure:
  - Outer shell: 6 mm high-strength steel
  - Inner shell: 3 mm high-strength steel
- Intermediate layer: 50 mm thermal fiberglass insulation (energy absorption + anti-spall)

#### Protection Level:

- The current architecture is engineered to approach a protection level equivalent to B5 (depending on ammunition type and test conditions).
- Official ballistic certification (B5) will be confirmed during the upcoming test campaign with independent laboratories and defense institutions.

#### Potential for B6 Upgrade:

- Achieving B6-level protection may be possible by increasing the thickness of the inner steel layer and/or integrating composite ballistic modules (aramid/PE). A dedicated B6 configuration can be developed upon request.

#### Thermal, Fire Protection

- Extreme thermal resistance: up to 1000°C for 20 minutes
- Multilayer thermal insulation system
- Fireman version optimized for wildfire and urban fire scenarios



#### Integrated Features

- Ventilation & Air Renewal System (Optional integration of O<sub>2</sub> / N<sub>2</sub> bottles for extended autonomy)
- Optional Sensors & Beacons: GPS tracking, localization, tactical communication modules
- Optional External Vision & Monitoring Cameras, situational awareness systems, emergency SOS transmitters
- Reinforced Fast-Access Door
- Future compatibility for helicopter extraction (Fireman version)

Optional Enhancements (On Request) : Upgraded ballistic configuration (B6-oriented), Kevlar or composite aramid inserts between steel layers, Additional thermal shielding, Tactical GPS, C2 integration (OEM partnerships), Custom colors, mounting systems, or extraction interfaces