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## 3B BESSASHIELD™

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BessaShield™ is a fully integrated, multi-hazard protection system purpose-built for Battery Energy Storage System (BESS) infrastructure. Unlike conventional solutions that address threats in isolation, BessaShield™ simultaneously protects against the full spectrum of physical hazards: thermal runaway and fire events, blast overpressure and fragmentation, ballistic impact, and forced entry – all within a single, unified system. Blast protection serves as the primary design focus, with fire resistance, ballistic, and forced-entry protection built inherently into the system rather than added as afterthoughts.

Engineered for the realities of operational environments, BessaShield™ is designed to work within tight and congested layouts, integrate seamlessly with existing infrastructure, and deploy in live operational settings – making it equally effective for new installations and retrofit applications.





## KEY FEATURES:

- All-in-one protection against blast, ballistic, forced-entry, and fire – addressed simultaneously within a single integrated system
- Ballistic rated up to UL Level 10
- Fire rated up to 6 hours, proven under temperatures exceeding 2,000°F
- Protects against the full threat spectrum: thermal runaway, blast overpressure, ballistic impact, and forced entry
- Turnkey project delivery from design through installation
- Engineered to protect both lives and assets

## TESTING SUMMARY:

- **Tested at:** Independent Accredited Laboratory
- **Fire Duration:** 360 minutes
- **Peak Temperature:** 2150°F
- **Post-Test:** Passed ASTM E2226 hose stream
- **Observations:** No breach, spalling contained, full structural containment
- **Construction:** Proprietary 3B fire-rated system

## APPLICATIONS:

- Utility-Scale and Grid-Scale Energy Storage
- Solar, Wind, and Hybrid Storage Sites
- Data Centers and Mission-Critical Facilities
- Military, Government, and High-Security Installations
- Microgrid and Distributed Energy Infrastructure

