

**Build  
For**

**Life** 



**ARMORCORE**

BULLET RESISTANT FIBERGLASS PANELS

# Security Against Ballistic Threats

**ArmorCore®** panels deliver superior protection against bullets and blast fragments. Panels capture the ballistic projectiles in a process called ply-delamination without ricochet or spalling.

Our unique design makes **ArmorCore®** the safest, most affordable, and efficient ballistic protection solution available for both new construction and remodeling projects.

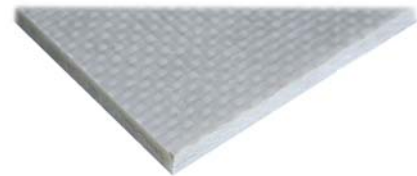
Through a proprietary manufacturing process combining woven-roving fiberglass with resin, **ArmorCore®** panels are precision-assembled and cured in a press with heat and pressure, maintaining quality and consistency.

Typically concealed behind drywall or woodwork, **ArmorCore®** panels are an affordable and easy-to-install solution for ballistic protection.

They are light-weight and can be installed with conventional tools. **ArmorCore®** can be cut in the field using a diamond-grit blade, and can be adhered with self-tapping drywall screws or construction adhesive.

Unique benefits of **ArmorCore®** panels include:

- **UL listed at all 8 levels of the UL 752 standard**
- **Easy to install with conventional tools**
- **Effective delay against forced entry**
- **Low wicking – preventing build-up of mold**
- **Non-toxic materials – no formaldehyde**
- **Available in panel sizes up to 5' x 10'**
- **Custom water-jet panel cutting available**



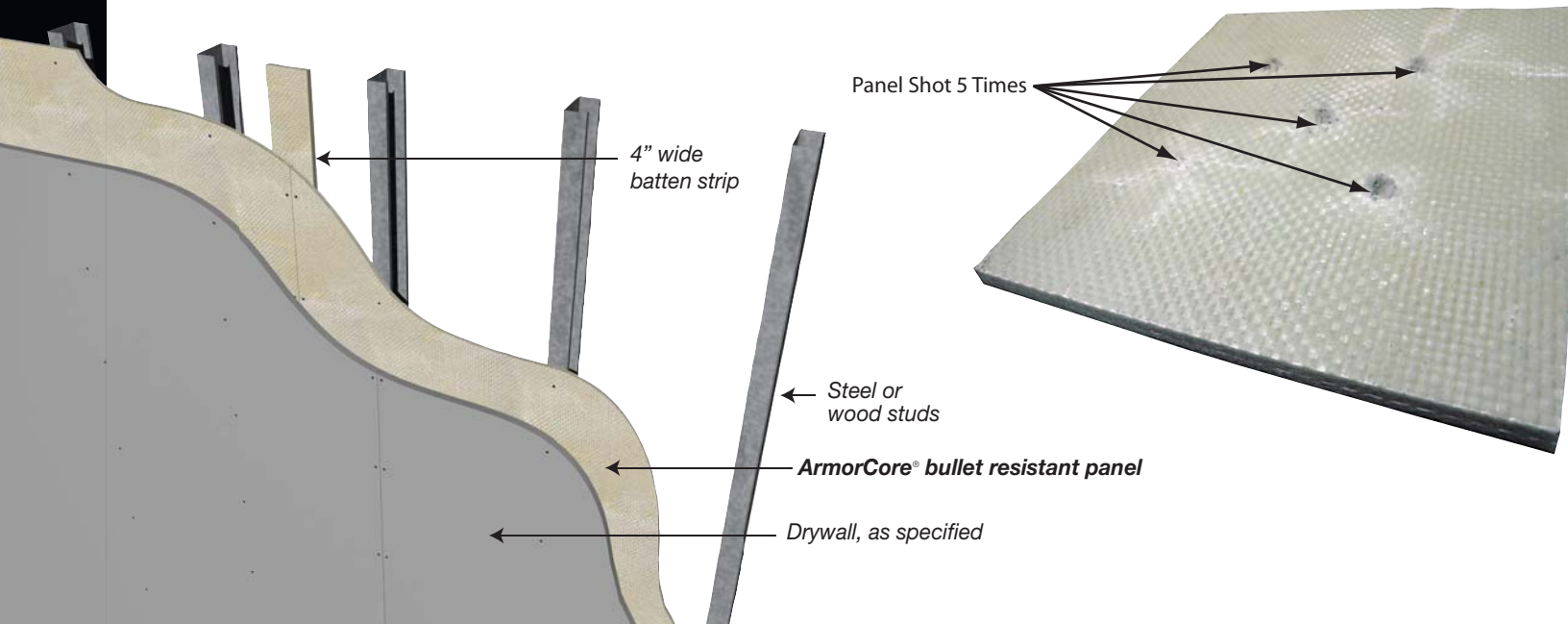
## UL 752 Protection Level

| Level / UL Rating     | UL | Nominal Thickness | Nominal Weight lbs/sq. ft | NJ Level    | Ammunition   | Grain | (g)  | Minimum fps | Velocity m/s | No. of Shots | UL 752 Paragraph |
|-----------------------|----|-------------------|---------------------------|-------------|--|-------|------|-------------|--------------|--------------|------------------|
| Level 1               | UL | 1/4"              | 2.6 psf                   |             | 9mm full metal copper jacket with lead core                    | 124   | 8    | 1175        | 358          | 3            | 4.3              |
| Level 2               | UL | 5/16"             | 3.6 psf                   | Level II-A  | .357 magnum jacketed lead soft point                           | 158   | 10.2 | 1250        | 381          | 3            | 4.4              |
| Level 3               | UL | 7/16"             | 4.8 psf                   | Level III-A | .44 magnum lead semi-wadcutter gas checked                     | 240   | 15.6 | 1350        | 411          | 3            | 4.5              |
| Level 4               | UL | 1-3/8"            | 13.9 psf                  |             | .30 caliber rifle lead core                                    | 180   | 11.7 | 2450        | 774          | 1            | 4.6              |
| Level 5               | UL | 1-7/16"           | 14.8 psf                  |             | 7.62mm rifle lead core full metal copper jacket, military ball | 150   | 9.7  | 2750        | 838          | 1            | 4.7              |
| Level 6               | UL | 3/8"              | 3.9 psf                   | Level II    | 9mm full metal copper jacket with lead core                    | 124   | 8    | 1400        | 427          | 5            | 4.8              |
| Level 7               | UL | 1-1/8"            | 11.7 psf                  |             | 5.56mm rifle full metal copper jacket, with lead core          | 55    | 3.56 | 3080        | 939          | 5            | 4.9              |
| Level 8               | UL | 1-7/16"           | 15.2 psf                  | Level III   | 7.62mm rifle lead core full metal copper jacket, military ball | 150   | 9.7  | 2750        | 838          | 5            | 4.10             |
| Supplementary Shotgun |    |                   |                           |             | 12-gauge rifled slug   | 437   | 28.3 | 1585        | 483          | 3            | 4.11             |
|                       |    |                   |                           |             | 12-gauge 00 lead buckshot (12 pellets)                         | 650   | 42   | 1200        | 366          |              |                  |

**ArmorCore®** carries a one-hour fire rating compliant to ASTM E119-00 (Fire Testing of Building Construction and Materials)

**ArmorCore®** Level 3 panels carry a Class IV Forced Entry Protection rating, per ASTM F1233-98.

Maximum velocity is 110% of the minimum velocity. All ArmorCore products are rated by the above UL752 standard for bullet resisting equipment. Test results are available upon request for air cannon tests, fragment projectile testing, and other ballistic standards including NIJ 0108.01



*Stringent testing against a variety of threats, wide-ranging capabilities, swift turn-around times and low costs make ArmorCore® panels the preferred product for defensive architecture.*

## Commercial Property

A wide range of commercial facilities face ballistic threat, most often those dealing with sensitive materials or quantities of cash. **ArmorCore®** panels are highly effective within counter and wall systems to provide personnel protection from ballistic attack.

- Banks and Credit Unions
- Convenience Stores
- Check Cashing Facilities
- Data Centers



## Health Care

Health Care facilities face unique security threats, and commonly turn to the protection of **ArmorCore®** panels. From armed robbery for drugs to attack on patients, defense against ballistic threat begins with **ArmorCore®**.

- Hospitals
- Clinics
- Pharmacies

## Residential Security

Manufactured to meet the stringent ASTM "Forced Entry Protection" standards, **ArmorCore®** panels are an ideal choice for residential Safe Rooms defending against room entry from bullets, as well as sledgehammers, cutting tools and even a propane torch!

Test results of **ArmorCore®** Level 3 panels by the Wind Engineering Research Center at Texas Tech University indicated that **ArmorCore®** can withstand a 15 lb. 2x4 wood board cannon-fired at a force consistent with a "large missile" typical of an EF-5 tornado, for effective storm shelter construction.



## Government Property

Facilities at all levels of government need to consider protection against ballistic attack. From Federal courthouses to county jails and local school board chambers, **ArmorCore®** panels provide affordable security within walls, lecterns and desks.

- Courthouses / Court Rooms
- Embassies & Consulates
- Public Safety Facilities
- Educational Facilities



## Military Applications

The successful protection of U.S. military personnel by **ArmorCore®** panels has been a source of particular pride for our company. Bullet and mortar-blast resistant panels, fashioned specifically for troop transports and base facilities, have saved a number of soldiers as they have defended our nation.

- Humvees and other Transport Vehicles
- Dining Halls
- Military Housing
- Base Entrances
- Chinook 47 Helicopters
- LCAC Navy Vessels

# The Industry Leader

Since 1996, **Waco Composites** has operated with one sole purpose: producing the highest quality fiberglass ballistic-resistant panels, with the best and most efficient processes in the industry, while providing superior customer service.

**Waco Composites** now leads the industry in ballistic panel design and fiberglass product development. Our team's experience includes design and development of ballistic resistant panels for a wide range of applications: commercial, governmental, educational and military. Our emphasis has always been in research and development and a rigorous quality assurance program with continuous testing of our products to ensure the highest degree of product integrity.

Our in-house testing facilities make **Waco Composites** unique in the industry, and provide us the capability of quickly developing custom products to meet specific customer requirements.

Along with consistent ballistic testing, documentation and attention to detail are part of the **Waco Composites Quality Assurance Program**. Waco Composites is an **ISO 9001:2008** registered company.

## Superior Customer Service

**Waco Composites** is dedicated to the highest level of customer service. One detail of this effort is to always have phone calls answered by a sales professional (not a recording) during business hours. Every order and inquiry is treated with sincere attention.



Our approach to customer service is also reflected in our order delivery. We have built a reputation for speedy turn-around time, shipping most orders within twenty-four hours.

Every employee of **Waco Composites** is committed to excellence in performance, knowing that any **ArmorCore®** panel may play a role in protecting someone from harm.

*For Product Details, Specifications and Pricing:*

Call us at: **866-688-3088**

Or visit our website: **[www.ArmorCore.com](http://www.ArmorCore.com)**



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