



www.jniarmor.com

Transparent Armor



JNI Armor is a transparent armor engineering company that is here to help innovate, develop, and protect our military and law enforcement by creating the bullet resistant solutions that will save lives

Transparent Armor Programs:

- ◆ Tactical Vehicles
- ◆ Forced Entry
- ◆ Blast Resistant
- ◆ Ballistic Shields
- ◆ Navy Vessels
- ◆ Rotorcraft
- ◆ Specialty Vehicles
- ◆ School Armor

LARGEST capacity of any US based transparent armor manufacturer. Manufacturing network includes:

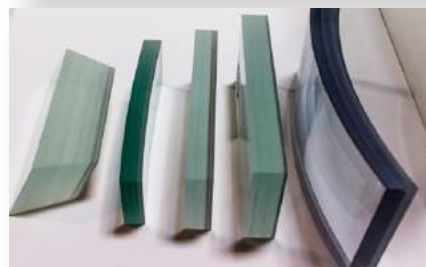
- ◆ Chemical Tempering
- ◆ Heat Strengthening / Tempering
- ◆ ITO Coating Line
- ◆ Lamination (up to 60" x 120")
- ◆ 5 axis waterjet
 - ◆ 5 Lamination Lines
 - ◆ 8 Autoclaves
 - ◆ ITO Coating Line

Capability to manufacture 500 components per day, 10,000 units per month, and over 120,000 units per year¹.

¹Capacity can be doubled with 2nd shift

Why Choose JNI Armor

- ◆ Most Durable >5 Years Lifetime
- ◆ Delamination Resistant
- ◆ Advanced Materials
- ◆ Lightweight Solutions
- ◆ Ballistic Modeling
- ◆ Life Prediction and Durability Modeling
- ◆ Structural Composite Armor
- ◆ Embedded Ceramic Armor



JNI Armor has armor solutions for Underwriters Laboratory (UL) ballistic requirements, NIJ 108.01, CEN 1063, AEP-55, STANAG 4569 and ATPD 2352

Research and Development



JNI Armor is at the forefront of developing durable transparent armor for the military through a \$1.5M Phase II SBIR funded by the USMC.

We work with vehicle manufacturers and other transparent armor companies to develop better solutions for our warfighters. In a short time, this has developed multiple current Phase III production programs, with technologies:

- ◆ Extending Life
- ◆ Increasing Ballistic Performance
- ◆ Reducing Lifecycle Costs

JNI Armor has developed efficient processes and advanced technologies to increase the lifetime of the transparent armor.

- ◆ Lamination Technologies
- ◆ Edge Seal Systems
- ◆ Interlayer Adhesives
- ◆ Glass Coatings
 - ◆ Reduce Mud/Rain
 - ◆ Reduce Solar Heat of Windows

JNI Armor has specialized **extreme climate** technologies designed for resistance to delamination in high temperature, humidity, and cold temperature environments



Technologies can be integrated into flat or curved glass for military or commercial vehicles to defeat CEN 1063, NIJ 108.01, STANAG 4569 requirements, or any threat requirement.

DURABILITY*	
Boiling Test	No delamination and no bubbles with specimen cured at 115°C x 90 mins
	No delamination and no bubbles with specimen cured at 130°C x 60 mins
Baking Test	No delamination and no bubbles at 30°C x 60 mins in the oven
	No bubbles at 115°C x 90 mins in the oven
Heating Test	No delamination and no bubbles at 85°C x 90 d
Heat & Moisture Test	No delamination and no bubbles (within 2 cm from the edges) at 60°C x 95% RH x 90 d
Heating Cycle Test	No delamination and no bubbles at -40°C <-> 90°C x 90 d
Pendulum Impact Test	Successful

JNI Armor

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