



THERMOPLASTIC TIMBER™

from INNOVATIVE GREEN SOLUTIONS





**THERMOPLASTIC
TIMBER HAS A
HIGHER SPECIFIC
STRENGTH THAN
STEEL.**



Developed and patented by scientists at Rutgers University and tested by the U.S. Department of Defense (DoD) and the U.S. Army Corps of Engineers, this patented building material is ideal for use in any application that demands high strength at a low weight. Its **STRUCTURAL INTEGRITY SURPASSES THAT OF TRADITIONAL MATERIALS** such as steel, wood and cement.

- DEFIES CATASTROPHIC FAILURE
- WITHSTANDS STATIC AND DYNAMIC LOADS OVER 70 TONS
- SUPPORTS HEAVY EQUIPMENT, SUCH AS THE M1 ABRAMS MAIN BATTLE TANK
- GROWS STRONGER WHEN EXPOSED TO ENVIRONMENTAL ELEMENTS

THE DURABILITY
OF THERMOPLASTIC
TIMBER IS
UNEQUALED IN
THE MARKETPLACE.





A building material that can stand up to high-moisture environments and climate extremes is worth its weight in gold. Plus, when it **LASTS FOR 50 YEARS OR MORE WITH VIRTUALLY NO MAINTENANCE**, the choice is clear.

- DOES NOT ROT, RUST, CORRODE OR CRUMBLE
- DOES NOT DEGRADE FROM EXPOSURE TO WATER, SALT OR EXTREME TEMPERATURES
- IS IMPERVIOUS TO INFESTATION BY INSECTS, MARINE BORERS AND OTHER MARINE PARASITES
- DOES NOT MUSHROOM WHEN DRIVEN TO RESISTANCE (37.5 TONS)
- DOES NOT CRACK UNDER STRESS
- RETAINS ITS AS-NEW APPEARANCE FOR A MINIMUM OF 50 YEARS



**THERMOPLASTIC
TIMBER IS AN
ECONOMICAL
ALTERNATIVE TO
TRADITIONAL
BUILDING MATERIALS.**





**THERMOPLASTIC
TIMBER IS 100%
ENVIRONMENTALLY
FRIENDLY.**





When building or replacing our nation's infrastructure, **CHOOSING THE ENVIRONMENTALLY FRIENDLY SOLUTION MAKES GOOD SENSE.** It helps agencies comply with two important government laws and mandates: Section 2228 of Title 10, U.S. Code for the prevention and mitigation of corrosion for the military equipment and infrastructure of the Department and Executive Order 13423: Strengthening Environmental, Energy, and Transportation Management.

- 100% RECYCLED AND RECYCLABLE
- 100% NONTOXIC AND INERT
- CONTAINS NO HARMFUL CHEMICALS
- REDUCES WASTE AND LANDFILL VOLUME
- REDUCES TREE AND POWER CONSUMPTION
- MAY BE ELIGIBLE FOR CARBON CREDITS



**THERMOPLASTIC
TIMBER IS
THE SMART CHOICE.**



The evidence is clear – thermoplastic timber outperforms traditional structural materials in a number of important ways:

- IS EXCEPTIONALLY STRONG
- IS MORE DURABLE AND LASTS LONGER THAN TRADITIONAL STRUCTURAL MATERIALS
- COSTS LESS TO PRODUCE, TRANSPORT, INSTALL, MAINTAIN AND RETIRE
- HAS FLEXIBLE DESIGN FEATURES AND CAN BE USED IN MANY APPLICATIONS
- IS MADE FROM 100% RECYCLED MATERIALS AND CAN BE RECYCLED AGAIN AT THE END OF ITS USEFUL LIFE



Moreover, the unparalleled design flexibility, strength and durability of thermoplastic timber make it ideal for use in critical infrastructure applications in harsh environments.

- RAILROAD CROSS-TIES
- MARINE PILINGS
- FENDER PILINGS
- BRIDGE AND GIRDER SUBSTRUCTURES
- PLATFORMS AND BOARDWALKS
- BULKHEADS



THE FUTURE OF BUILDING MATERIAL IS HERE TODAY.

To learn more about thermoplastic timber and other innovative products, call **703.421.7125**, send an email to **INFO@IGSFEDERAL.com** or visit us online at **WWW.IGSFEDERAL.COM**.

ABOUT INNOVATIVE GREEN SOLUTIONS

Innovative Green Solutions is a Woman-Owned Small Business dedicated to providing environmentally friendly solutions for some of America's toughest infrastructure problems. Our products save lives, create American jobs, help build and maintain our nation's infrastructure and reduce costs while preserving our vital natural resources.

