

# ACCELERATED BRIDGE CONSTRUCTION

WITH TIME-PROVEN TECHNOLOGY

ALUMABRIDGE

## Advanced Solutions for the Urgent Problems of Bridge Rehabilitation and Replacement

- Rapid Bridge Deployment
- Significant Savings in Time and Money



# ADVANCED DESIGN IN ALUMINUM BRIDGE DECKING FEATURES AND BENEFITS

AlumaBridge, LLC is North America's premier supplier of aluminum bridge decking with time-proven technology. The company is backed by 20 years of innovation and experience linked to a history of highly successful installations in both the United States and Europe. AlumaBridge's advanced design solutions are a rehabilitation alternative to reconstruction and offer unmatched benefits compared to traditional concrete and steel construction:

- **Rapid Deployment** – “Deployment Ready” technology can be preassembled for rapid bridge deck or whole bridge replacement. Panels can be shipped over-the-road for quick on-site installation.
- **Significant Savings in Time and Money** – Accelerated construction reduces costs in both A+B and A+B+C bid evaluations. Perfect for many bridge rehabilitation projects, AlumaBridge decking assures savings for affected transportation authorities and communities. The immediate benefits of limited traffic interruption lower traffic control expenses and reduce costs for car and truck users.
- **Reduced Lifecycle Costs** – From initial installation throughout the life of the bridge, the skid resistant and aggregate bonded wearing surface lowers maintenance costs compared to concrete deck repairs or replacement. AlumaBridge materials never need painting even in the presence of deicing salts. (Composite or non-composite applications are available.)
- **Reduced Weight Reduces Dead Load** – The lightweight aluminum deck (18 to 23 pounds per square foot depending upon deck depth and wearing surface) mirrors the strength of monolithic concrete, but is up to 80% lighter than steel with concrete. That allows for widening of functionally obsolete bridges using the existing substructure. Bridges can then be immediately reopened and improve traffic flow.
- **Environmentally Friendly** – AlumaBridge aluminum decking is the “green metal”, contains significant recycled content and is easily and profitably recycled. Of all aluminum extrusions produced since 1888, 75 percent are still in use!
- **Infinite Fatigue Life** – Using AASHTO Specifications / Bridge Code Compliant in U.S. and Canada



## Applications

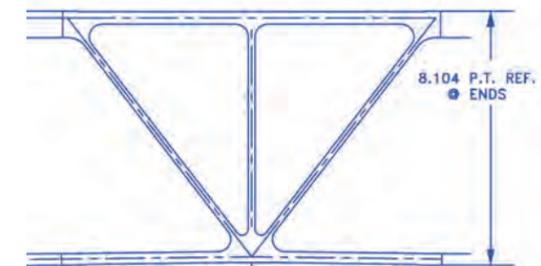
AlumaBridge aluminum bridge decking systems all deliver the advantages of rapid deployment and lightweight plus reduced installation, lifecycle and maintenance costs. In both standard and custom configurations, they are available for a variety of solid surface lightweight deck solutions including:

- **Roadway / Highway Bridges**
- **Moveable Bridges and Structures**
- **Emergency Deployment Bridges**
- **Temporary Bridges**
- **Military Bridges**
- **Marine Decking**
- **Construction Platforms**

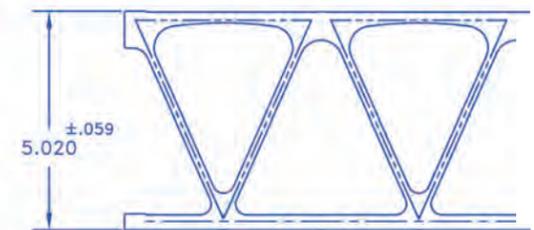
## Products

As a bridge-market focused organization, AlumaBridge's patented systems are available for a variety of solid surface lightweight deck solution applications.

Our experience and technical support is unmatched. We use the latest advancements in Friction Stir Welding (FSW) for strength and precision in superior deck fabrication. AlumaBridge engineers, custom designs and manufactures time-proven aluminum isotropic as well as orthotropic deck construction.



**8" Deep Bridge Deck –**  
Replaces concrete bridges



**5" Deep Bridge Deck –**  
Replaces steel grid bridge decks and  
decks on moveable bridges

