Alumente de la construction de l

Visual appeal Cost-effective investment Award-winning innovation









MakeABridge[®]

In addition to being aesthetically pleasing, our unique patented weld-free system uses off-the-shelf components, allowing for fast shipping and easy installation.

We offer a wide choice of finishes and options to create a durable, economical and distinctive structure customized to your specifications and needs. The MakeABridge[®] pedestrian bridges are ideal for new constructions or for retrofits of existing bridges, and may be used in temporary or permanent applications.

Our weld-free system is engineered to be ultra-light, yet strong and durable and is impervious to corrosion from salt water, chemicals or pollution.



Specifications



Highest Standards

Design and materials

- 100% recyclable aluminum structural components and energy-efficient recycling.
- Easy to add durable architectural finishes.
- Integrates well with new constructions and retrofits of existing structures.
- No welding aluminum maintains its full structural integrity.
- Resistant to corrosion from salt water, chemicals and pollution.
 A permanent film of natural oxide makes the metal less impacted by the environment.
- Suited to extreme cold, aluminum does not crack at low temperatures.
- High-strength alloy construction using 6005A, 6061, 6082, AA356, AA357.
- Fasteners in stainless steel 300 series.
- Destructive testing conducted at ETS (École de technologie supérieure) in Montreal (Quebec) and at the University of Waterloo (Ontario) to verify the structure's ductility.
- Includes complete engineering services, eliminating all of the costly phases of design, customized production and approval generally required by a third party.

Patents

- Canada 2,607,711; Canada 2,869,050
- US 8,667,633; US 8,590,084; US 7,882,586; US 7,568,253
- Patents pending WO 2010/040205 A1 12/495,084

Maintenance

Virtually maintenance-free and highly cost-effective, compared with steel when total cost of ownership (TCO) is considered.

Vandalism

Optional anti-theft/anti-vandalism fasteners.

Awards

The MakeABridge[®] system has received many design and innovation awards since 2006.

2013

Winner

Product innovation award: Architectural Products magazine

2010

Finalist

Génie Innovation awards for engineering innovation

2009

New technology prize

Quebec Region, Canadian Manufacturers & Exporters and National Research Council of Canada (NRC IRAP)

Honorable mention

Contech innovation trophies

Finalist

Among 487 firms participating in the VoirGRAND.tv competition

2008

First Place

Category structure, International Aluminum Extrusion Design Competition of ET Foundation.

2006

Finalist

Les Anges financiers[™] competition of the Jeune Chambre de commerce de Montréal (JCCM) and Anges Québec

Sustainable

MAADI Group is committed to implementing the sustainable benefits of MakeABridge[™] to improve the environment in every community where our pedestrian bridges are used. MakeABridge[™] incorporates the sustainable design principles of energy conservation, use of recyclable materials, greater functionality and design flexibility, and enhancing the built environment with durability that lasts for decades.

This product maximizes functionality and minimizes environmental impacts by providing safe access for pedestrians and bicycle riders, and reducing traffic congestion.

Aluminum benefits

- Natural material requires no maintenance and meets environmental responsibility requirements.
- 100% recyclable, with high resale scrap value at the end of its lifespan.
- Recycling aluminum scrap requires only 5% of the energy used to make new aluminum.
- Extruded deckings use 20% recycled aluminum content .
- Fully reusable aluminum upon deconstruction without any loss of strength or mechanical properties.
- Reduced energy use and pollution during transport due to light self-weight (60% of equivalent steel structure).

Warranty

15-year manufacturer's limited warranty against corrosion of the aluminum main load-bearing structure.



At MAADI Group, all of our design specifications meet local, regional and national building codes and professional standards as required. All of our technical designs and calculations for our aluminum structures bear the seal of one of our engineers.

Canada

- CSA S157-17 Strength Design in Aluminum

U.S.

- AASHTO Specifications for Design of Pedestrian Bridges
- AA ADM (2020) Aluminum Design Manual
- Aluminum Standards and Data (AS&D)
- Americans with Disabilities Act (ADA)

International

- BS EN 1999-1-1:2007 + A2:2013 Eurocode 9: Design of aluminium structures - General structural rules

Partner

Our renowned partner supports the development of MakeABridge[™].









Custom design

Design options offer versatility in a cost-effective and durable structure.

Specifications

Overall span

From 20' to 60' (6.1 m to 18.3 m)

Clear width

From 3' to 6' (0.9 m to 1.8 m) Optional handrails More details Guardrails with a choice of styles and finishes More details







Structure Connection

Each connection system will be best suited for a particular application, as specified by our engineers.



Anchor and bearing plates

Specifications

- Allow thermal expansion on one end of the bridge
- Stainless steel anchors kit with adhesive cement included
- Isolators included



Specifications

- Designed to adjust on rough terrain, for either temporary or permanent use
- Optional stainless steel anchors kit with adhesive cement (for permanent use)
- Isolators included



Transition plate

Transition plates are designed to facilitate a smooth and slip-free surface from the footbridge to the adjacent surface. Tread patterns for each plate may be chosen to best suit the environment and application.

Specifications

- Aluminum diamond plate texture or plain with anti-slip tread bars
- Different tread patterns are available

Aluminum structures Civil







um



Off-the-shelf components ready to be shipped on standard-size trailers

Delivery is four to eight times faster than for conventional welded bridges.

Much lower shipping costs than conventional structures

Delivered in bundles measuring 20 ft x 4 ft x 2 ft (6.1 m x 1.2 m x 0.6 m) or pre-assembled

Maximum weight of each component is 110 lb (50 kg)





Guardrails

MAADI Group guardrail systems offer safe and practical solutions that are also attractive. Our guardrails comply with Canadian and American bridge codes and standards.



Vertical pickets

Material and finish

- Extruded aluminum with clear anodized finish

Specifications

- Less than 4" (102 mm) between pickets National Building Code of Canada
- Less than 6" (152 mm) between pickets CSA S6-19 Canadian Highway Bridge Design Code)

Heights

- Pedestrians: 42" (1,067 mm)
- Cyclists: 54" (1,372 mm)

Options

- Other colors and finishes are available upon request More details





Horizontal railings

Material and finish

- Extruded aluminum with clear anodized finish

Specifications

- Less than 6" (152 mm) between railing – CSA S6-19 Canadian Highway Bridge Design Code)

Heights

- Pedestrians: 42" (1,067 mm)
- Cyclists: 54" (1,372 mm)

Options

- Midrails also available
- Other colors and finishes are available upon request

More details

Custom design

Options

- Personalize the guardrails with your own design

MAADI Group

Decking Materials

Our engineers will guide you in choosing the most suitable decking for the use of the structure, taking into account safety and maintenance.

Compare the different choices using our table.





Ipe hardwood

Specifications

- Naturally very resistant to decay, rot and insect attack
- Minimum 40-year lifespan depending on use
- Low maintenance, no treating or sealing required for durability (treating may be required to keep the original color)
- Straight grain with fine to medium texture
- Economical over life of the structure
- Average density of 69 lb/ft³ (1,100 kg/m³)

Dimensions

- Outside corner S4S
- Width varies between 5" and 7 3/8" (127 mm and 188 mm)
- Thickness varies according to the loads and applications between 1" and 1 1/2" (25 mm et 40 mm)

Options

- Available in pressure-treated pine wood planks and in incised hemlock wood planks
- Other wood decking options are available upon request

Composite

Specifications

- Designed to resist rot, warping and fading
- Minimum 25-year lifespan depending on use
- Anti-slip ribbed surface
- Low maintenance no treatments or sealers required
- Economical over life of the structure
- Density of 75 lb/ft3 (1,195 kg/m3)
- Fastened with stainless steel screws

Materials

- A blend of wood flour and high-density polyethylene

Dimensions

- S4S outside corner
- 7/8" x 5 1/2" (22 mm x 140 mm)

Color

- Sand (other colors are available upon request)





Ribbed aluminum

Specifications

- Unlimited lifespan with regular cleaning
- High grip ribbed tongue and groove planks
- Maintenance-free and corrosion-resistant no treatments or sealers required
- 100% recyclable and reusable
- Economical over life of the structure
- Fastened with stainless steel screws

Material and finish

 Extruded aluminum alloy with natural finish – no paint or treatment required

Option

- Durable polyester powder coating for extra adherence also available upon request
- Compliant to AAMA 2604-10 & ASTM D3359
- Available in two colors: beige and gray (other RAL colors are available upon request)

Shur grip

Specifications

- Unlimited lifespan with regular cleaning
- High grip surface
- Maintenance-free and corrosion-resistant no treatments or sealers required
- Transversal planks have integral side channels
- Safety grating planks have debossed holes, each surrounded by 6 perforated buttons
- 100% recyclable and reusable
- Economical over life of the structure

Material and finish

 Extruded aluminum alloy with natural finish – no paint or treatment required

Option

- Grip span planks are also available
- Other decking options are available upon request

MAADI Group

Decking Materials

Consider maintenance, durability, adherence, and sustainability when choosing the most suitable decking material for your project.

	-					+
	0	1	2	3	4	5
Maintenance						
Ipe hardwood planks						
Pressure-treated pine wood planks						
Composite wood planks						
Ribbed aluminum planks						
Ribbed aluminum planks with durable coating finish						
Grip span planks						
Shur grip planks						

Durability

lpe hardwood planks	
Pressure-treated pine wood planks	
Composite wood planks	
Ribbed aluminum planks	
Ribbed aluminum planks with durable coating finish	
Grip span planks	-
Shur grip planks	

	-					+
	0	1	2	3	4	5
Adherence						
lpe hardwood planks						
Pressure-treated pine wood planks						
Composite wood planks						
Ribbed aluminum planks						
Ribbed aluminum planks with durable coating finish						
Grip span planks						
Shur grip planks						

Sustainability

lpe hardwood planks	•
Pressure-treated pine wood planks	
Composite wood planks	
Ribbed aluminum planks	
Ribbed aluminum planks with durable coating finish	
Grip span planks	
Shur grip planks	•

Options

Various options are offered to further customize your structure to best suit the application and the surrounding environment.



Integrated kick plates

Specifications

- Help prevent objects from falling and provide a higher level of security

Material and finish

- Extruded aluminum alloy with clear anodized finish

Dimensions

- Height: 4" (102 mm)





Handrails

Material and finish

- Extruded aluminum alloy with clear anodized finish

Dimensions

- Diameter: from 1 1/4" to 2" (from 32 mm to 50 mm)
- 2" (50 mm) hand clearance

Height

- Standard: 36" (915 mm)
- ADA1: 24" (610 mm)

Option

- Double handrails (ADA1) are available upon request

Integrated LED lighting system

Specifications

- Integrated into the guardrails

Options

- Programmable RGB LED
- White LED



Finishes

Powder coating

Anodization

Specifications

- Available in two colors: beige and gray
- Made of powdered polyester resin
- Baked as per specifications
- Meets AAMA¹ standards
- Not recommended for use on aluminum decking

Options

- Other RAL colors are available upon request

Specifications

- Available in five colors: clear, champagne, light bronze, architectural bronze and black
- Meets all requirements of the Aluminum Association (AA) for the anodized architectural aluminum
- Meets AAMA 611¹ standards
- Meets AA-M10C21A41² for clear finish and AA-M10C21A44² for Champagne, Light bronze, Architectural bronze and black finishes
- Only extruded parts can be anodized

Options

- Other RAL colors are available upon request



Faux-wood

Specifications

- Made of polyurethane based thermosetting powder paint
- Baked as per specifications
- Meets American Architectural Manufacturers Association (AAMA) standards
- Compatible with natural surroundings
- Recommended for use with Ipe hardwood horizontal railing and decking

¹ American Architectural Manufacturers Association ² Aluminum Association Designation system



Visit our website to see our latest projects



MAADI Group

3040 Rte Marie-Victorin Varennes (Quebec) Canada J3X 1P7

450.449.0007

866.668.2587

maadigroup.com

info@maadigroup.com

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