

Infrastructure for emergency evacuation



Strength. Reliability. Safety.

Patent : US 7,568,253

Patents pending: WO 2010/040205 A1 - 12/495,084

During an emergency or fire, patented Make-A-Bridge[®] aluminum skywalks are engineered to provide safe, reliable passage between multi-story buildings. This secure aerial walkway between buildings speeds evacuation and allows access by fire fighters and emergency crews. Weld-free Make-A-Bridge[®] skywalks are available in spans up to 30 meters (100 feet) and are virtually maintenance- and corrosion-free, designed to withstand heavy foot traffic, with a bridge dead load structural weight of 0.5 kPa (10 psf).

Structurally strong and easy to assemble, weld-free Make-A-Bridge[®] members interlock into cast aluminum nodes end-to-end, connecting side-to-side to form continuous truss sections across the entire span. Bracing members and decking units complete the lightweight structure. Bundled aluminum components are easily transported to building connection points and attach securely to the existing structures without major modifications, meeting local and national building and fire codes.

Aluminum Make-A-Bridge[®] serves as an exterior corridor for fast, safe passage when stairs and elevators are not available. The modular skywalk design maximizes load-bearing capacity with minimal structural weight to provide a secure and efficient way to evacuate building occupants during any emergency situation. Customize your skywalk with integrated LED lighting, non-slip decking and side panel options that offer added safety benefits. Fully recyclable, the aluminum Make-A-Bridge[®] skywalk provides secure evacuation while enhancing sustainable building practices.

- Single spans from 3 to 30 meters (10 to 100 feet);
- Withstands extreme climate conditions;
- Each element has maximum weight of 35kg (70 pounds);
- High-strength alloy construction using 6005A, 6061, 6082, AA356, AA357;
- Destructive testing conducted at Ecole de technologie superieure, Montreal, Quebec, and University of Waterloo, Waterloo, Ontario, to verify the structure's ductility;
- Strength UTS of 260-290 MPa;
- Options enhance functionality, safety and aesthetics;
- Footbridge dead load structural weight of 0.5 kPa (10 psf).
- Aluminum members are fully recyclable

**For more information,
visit www.makeabridge.com**

*Moment resisting joint
using tripod node.*

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Aluminum Design and Engineering