

Product Data Sheet

SUREFOOT ACCESS BRIDGE CROSSOVERS

1. **Product Name:** SUREFOOT ACCESS BRIDGE CROSSOVERS
2. **Manufacturer:** MIRO INDUSTRIES, INC.
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3. **Product Description:** Surefoot Access Bridge Crossovers provide a safe and cost-effective means to access rooftop equipment. Surefoot Access Bridge Crossovers are custom-designed to meet OSHA and building code standards for limited access applications. Bridge Crossovers can span across pipes, ducts, expansion joints, elevation changes and other potential obstructions. Bridge crossovers are typically designed to OSHA standards for standard stairways as recommended in OSHA 1910.25(b)(8). Where not feasible, an alternate method such as ship ladders or vertical ladders can also be provided where a standard stair will not work. Each crossover section is designed to carry applicable loading, per OSHA requirements, and distribute the loading to the roof surface through the frame system connected to either a polycarbonate, stainless-steel or hot-dip galvanized base. Each Access Bridge Crossover is adjustable in the field via bolted connections to accommodate roof and height variations. All metal parts are made from either hot-dip galvanized steel or stainless-steel for outdoor weathering protection. Surefoot Access Bridge Crossovers consists of (1) a MIRO designed base, with gently curved edges to protect the roof membrane that effectively distributes the weight over the maximum roof surface, (2) hot-dip galvanized steel strut or stainless-steel frame structure, and (3) galvanized planking, or bar grating with an anti-slip surface for walking on.
4. **Product Performance:** Surefoot Access Bridge Crossovers provide a means to safely access rooftop equipment around physical obstacles. Bridge Crossovers are typically set on the roof surface as a free-floating system, but positive attachment of the system to the building structure may be required for code compliance. Where required, a means for positive attachment to the building structure can be provided and coordinated by MIRO Industries.
5. **Compatibility:** Surefoot Access Bridge Crossover units are recommended for use on, and are compatible with, all current types of decking and with all commonly used built-up and single-ply roofing membranes, where access across physical obstacles on a rooftop is required.
6. **Load Weight:** Maximum load weight is equivalent to and is part of the maximum rooftop bearing load, which shall be determined for each crossover based on dimensions and the weight of the system. MIRO recommends loading not exceed 3 lbs. per square inch from each base to the roof surface. In addition, a deflection limit for frame members shall not exceed the span length divided by 360 ($L/360$) and a maximum recommended deflection not to exceed 1/8 inch.
7. **Composition and Materials:** Bridge Crossovers are made with either polycarbonate, hot-dip galvanized or stainless-steel bases and either hot-dip galvanized or stainless-steel framing and hardware with a non-slip plank or bar-grating as the walking surface. Base sizes are determined based on loading requirements for the support and load distribution to the roof.
8. **Size:** Surefoot Access Bridge Crossovers are manufactured to project-specific dimensions and are to have limited-height adjustability to ensure a level surface and desired heights off the roof are achievable.
9. **Installation:** (1) Determine the required dimensions of the system including width, clearance height from the roof surface to the lowest point of the bridge section, and the location of the unit on the roof, (2) assemble the Bridge Crossover in the approximate location and adjust the support, as needed, to ensure each base rest firmly on the roof surface.

MIRO recommends an additional sheet of roofing material, or a MIRO Support Pad be installed beneath each base. For built up roofs, remove all loose aggregate from an area 2 inches larger in width and length than the base or support pad and follow the installation directions outlined above.
10. **Spacing:** Surefoot Access Bridge Crossovers are built to standards established in OSHA 1910 Subpart D for Walking-Working Surfaces. Contractors are to ensure clearances above and around crossovers are provided in accordance with OSHA Standards.
11. **Availability:** Surefoot Access Crossover Bridges are marketed throughout the United States through representatives and distributors.
12. **Maintenance:** Normal maintenance is not required. Semi-annual inspection is required to check crossover position, and to ensure no hazardous conditions exists on or around the system.
13. **Technical Services:** Please call MIRO INDUSTRIES, INC: (800) 768-6978 or visit our website www.miroind.com for technical information and for graphic and CAD drawing downloads.