Specification and Data Sheet

MECHANICAL UNIT SUPPORTS

1. **Product Name**: MIRO HD AND LD MECHANICAL UNIT SUPPORTS

2. **Manufacturer**: MIRO INDUSTRIES, INC., 2700 South 900 West, Salt Lake City, Utah 84119 Phone (800) 768-6978
   Fax (800) 440-7958

3. **Product Description:** MIRO Mechanical Unit Supports are supports to elevate rooftop mechanical units such as air conditioning or other devices. The Mechanical Unit Supports are designed so that the mechanical units rest in heavy-duty grate plank system supports which are connected to bases designed with MIRO technology to protect the roof membrane. The Mechanical Unit Supports are adjustable in that the strut or all-thread can be selected to the appropriate height to level the rooftop units. All metal pieces are made out of hot-dip galvanized steel or stainless steel for outdoor weathering protection. The MIRO Mechanical Unit Support consists of (1) a MIRO designed base with gently curved edges to protect the roof membrane and to distribute the weight over the maximum roof surface, (2) hot-dip galvanized steel strut, and (3) hot-dip galvanized plank that fits the supported mechanical unit.

4. **Product Performance:** MIRO Mechanical Unit Supports can be used to support mechanical devices which are set upon the roof, and MIRO recommends that such devices not be attached to the roof membrane or the roof structure, but float freely upon the roof. As units operate and as daytime temperatures warm and cool, the roof environment and the mechanical pipe network upon the roof to which a mechanical device may be connected expands and contracts with the temperature changes. The MIRO Mechanical Unit Supports are designed to support such devices and absorb such movement in a way that protects the roof. Vibration eliminators can be added to units if necessary.

5. **Compatibility:** The Mechanical Unit Support is recommended for use on and is compatible with all current types of decking and with all commonly used built-up and single-ply roofing membranes where roof-mounted pipes and devices are installed.

6. **Load Weight:** Maximum load weight is equivalent to and is part of the maximum roof top bearing load which MIRO has designed for its bases. MIRO recommends such loading not exceed two pounds per square inch.

7. **Composition and Materials:** The Mechanical Unit Support is made of hot-dip galvanized steel or can be made of stainless steel or polycarbonate.

8. **Size:** The Mechanical Unit Support is manufactured to adjust in height to the specifications and dimensions required by each roof top application. Light duty unit sizes include 18" by 18", 24" by 24", 24" by 30", 30" by 30" and 36" by 36". Custom units can be provided.

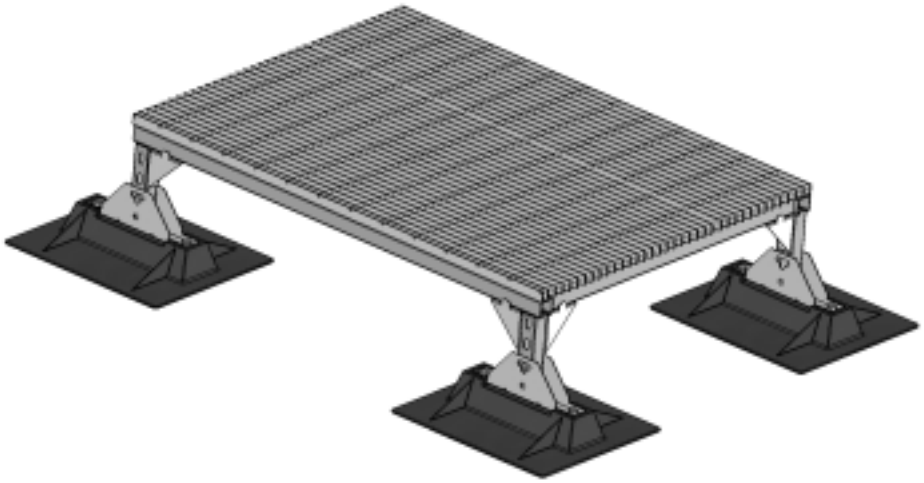
9. **Installation:** (1) Determine the dimension and location of the supported unit upon the roof and the desired height, (2) place the Mechanical Unit Supports in the approximate positions so as to allow the mechanical unit or device to fit down in and upon the side support, (3) take final measurements and adjust the Mechanical Unit Support to fit properly allowing an even load to be distributed throughout the grading system to ensure that an even amount of load is placed upon each leg and base support, (4) adjustment in height can be obtained by moving the framing system up and down the leg of the support by adjusting the brackets. Care should be taken to adjust each Mechanical Unit Support to make sure equal weight and load is resting upon each leg and that no support carries more weight than two pounds per square inch.

10. **Spacing:** The Mechanical Unit Support should be spaced at intervals so as to allow proper installation of the mechanical units or devices and so as not to exceed recommended weight bearing upon rooftop materials which MIRO recommends not exceed two pounds per square inch.

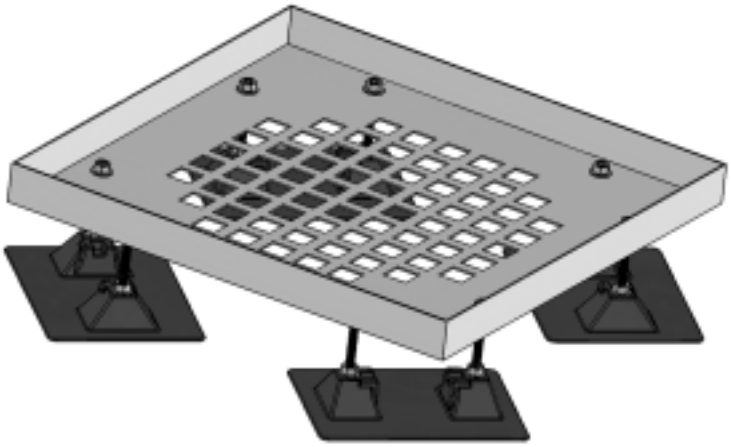
11. **Availability:** Mechanical Unit Supports are marketed throughout the United States through representatives and distributors.

12. **Maintenance:** Normally maintenance is not required. Semi-annual inspection is required to check support position, pipe alignment, weight distribution, and improper installation which may cause system failure or damage.

13. **Technical Services**: Please call MIRO INDUSTRIES, INC.: (800) 768-6978.
    www.miroind.com for technical information and for graphic and CAD drawing downloads.



Heavy Duty

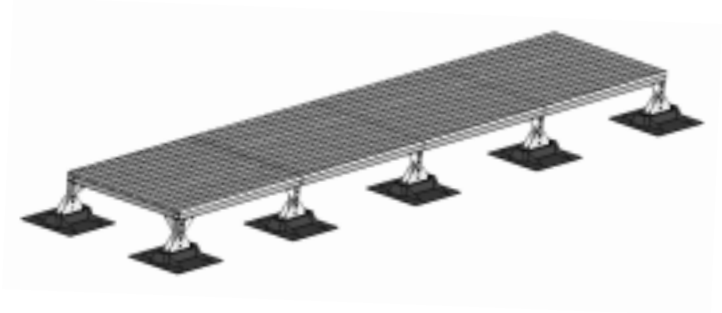


Light Duty

Mechanical Supports

Specification and Data Sheet

MIRO CROSSOVER, WALKWAY, RAMP AND PLATFORM SYSTEMS



MIRO Crossover and Walkway

BASE MATERIAL
Polycarbonate Plastic (UV Resistant), Hot-Dip Galvanized, or Stainless Steel.

SIZE
The deck base (P) is 9" by 31.69" or 16" by 18" SB, the (HDG) and (SS) is 12" by 16". Structural housing accepts max 1-5/8" by 1-5/8" UNISTRUT. For strut specification see page 25.

DESCRIPTION
The MIRO Crossover and Walkway are designed to provide access over piping, duct, equipment, or high or lower areas of a roof surface.

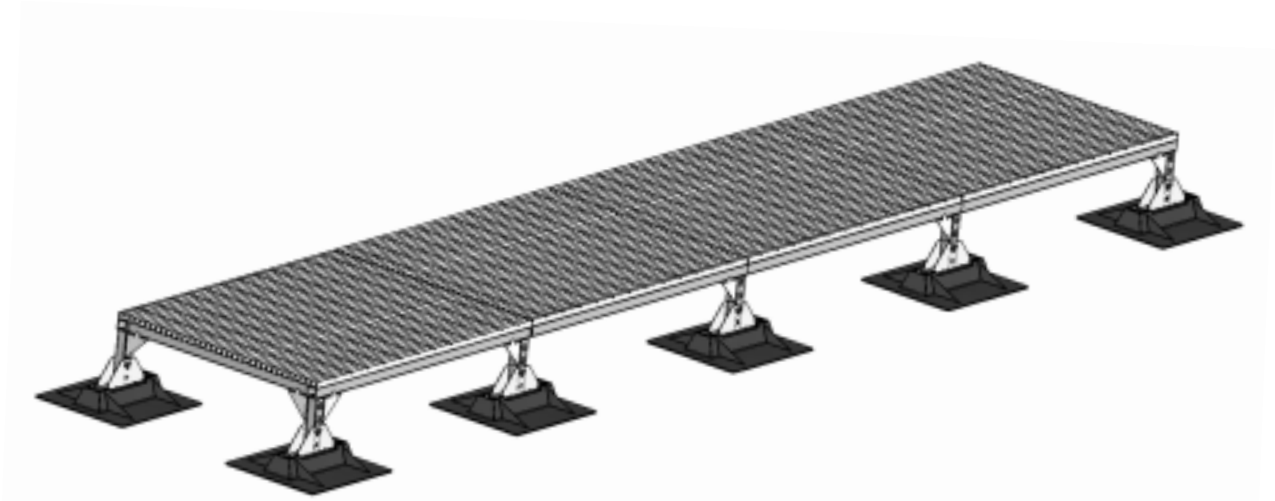
MAX LOAD WEIGHT
Load weight may not exceed 200 lbs. per support footprint.

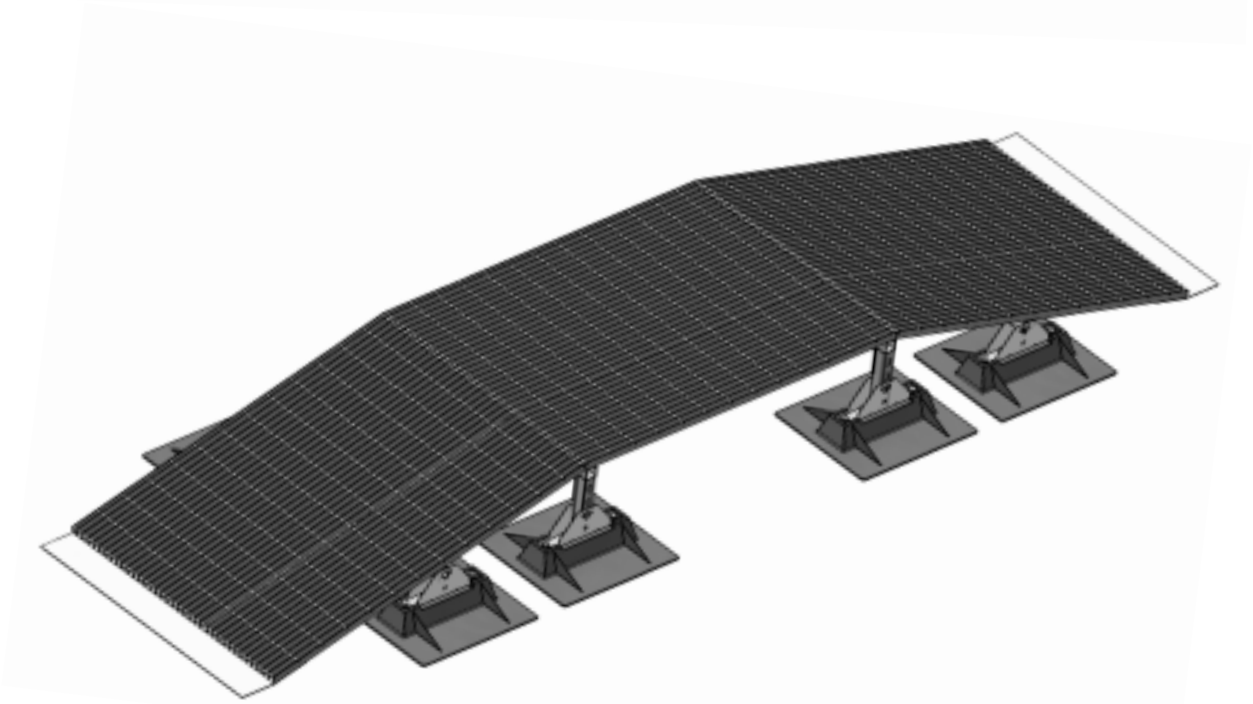
SPACING AND LOADING
Manufacturer's recommended spacing should not exceed drawing specifications. Do not exceed 200 lbs. load weight per footprint and make certain each support platform and step is adjusted to even the load with all other supports.

INSTALLATION PROCEDURES

1. All MIRO Crossover and Walkway systems are shipped un-assembled (field assembly required).
2. Remove hardware from box and use all other necessary components to build a suitable support per manufacturer drawing.
3. Clear all loose gravel and aggregate away from roof-top support site.
4. Place Miro Base on a walk pad or slip pad for added protection.
5. Make sure to center each unit, and make necessary adjustments so that each foot carries an even load. Load not to exceed 200 lbs. per unit.

MIRO Crossover





MIRO Walkway, Ramp and Platform