

## Product Data Sheet

# 6DS (P), 6DS (HDG) and 6DS (SS)

1. **Product Name:** Custom 6DS adjustable height support. All 6DS supports are custom manufactured at the MIRO Industries plant.
2. **Design Emphasis:** The 6DS, or "H" type, support is a versatile, custom product designed to support single or stacked duct, cable trays, or other rooftop components, at varying heights and widths with onsite vertical adjustability for maximum efficiency and cost savings to customers, contractors, and owners. The frame structure consists of at least two load-distributing bases with vertical strut legs and a horizontal strut header. Support sizes are to be determined for project-specific requirements and allow for a range of vertical adjustability. Horizontal cross-bracing between adjacent frames may be required.
3. **Manufacturer:** MIRO INDUSTRIES, INC. Phone: (800) 768-6978  
844 South 430 West, Suite 100, Fax: (800) 440-7958  
Heber City, Utah 84032
4. **Product Description:** A frame constructed of strut and MIRO's patented bases are used to support duct or various utilities on roofs with slopes up to 2 vertical units and 12 horizontal units, or up to a 9 degree slope. Each support has a minimum of 2 bases made of polycarbonate plastic, hot-dip galvanized or stainless-steel. All other parts are hot-dip galvanized or stainless-steel.
5. **Product Performance:** The frame system serves to keep the duct, or various utility system, directly over the frame without binding and allows for some lateral expansion of the supported system. The base is gently rounded to prevent gouging. Drainage ports are provided to prevent ponding within the device.
6. **Compatibility:** MIRO Custom 6DS supports are recommended for use on, and are compatible to use with, all current types of decking and with all commonly used built-up and single-ply roofing membranes where roof-mounted utilities occur. With heavier loads, it is prudent to use a MIRO Support Pad or other traffic pad to further protect the roof membrane.
7. **Loading/Design Constraints:** The 6DS series support is built to ensure member and component capacities and deflection criteria are not exceeded. Maximum loading from any MIRO base to the finished roof surface is not to exceed 3.0 psi unless specifically stated in the project specifications. Deflection in the horizontal header bar is not to exceed the span length divided by 360 or 1/8".
8. **Composition and Materials:** The 6DS support consists of two major components: (1) a minimum of two polycarbonate plastic (P), hot-dip galvanized (HDG) or stainless-steel (SS) bases which sit on the roof membrane and (2) a hot-dip galvanized or stainless-steel strut frame assembly which is supported by, rests upon and is connected to the two bases.
9. **Size:** The series 6DS is made as follows: Each of the deck bases are 9 x 15-1/4 inch (P) or 8 x 14 inch (HDG or SS), 1-5/8 x 7/8 inch strut legs and a 1-5/8 inch header bar. The header bar may be 7/8, 1-5/8 or 3-1/4 inches tall as required for loading. The header bar will have a minimum length of 14 inches to accommodate the bases. The strut frame assembly is constructed to allow vertical adjustment of the header bar within a specified range.
10. **Adjustable Height:** The 6DS support allows for height adjustments as desired or required by the code or roof system. Cross-bracing two adjacent supports is required for elevations 36" and higher. Purchasers must specify desired heights and multiple duct configuration upon quote requests and ordering of 6DS series stands.
11. **Installation Process:** (1) Center the support directly below the location of the component to be supported. (2) Adjust the header bar to the desired height to maintain even-load weight distribution among the other stands. Make certain the header bar is level. (3) Set the components to be supported onto the frame without dropping or causing any undue impact.  
  
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.
12. **Spacing:** Manufacturer's recommended spacing is not to exceed 8-foot centers depending upon the load. Make certain each pipestand is properly elevated and loading is distributed evenly to all pipestands. Support spacing is not to exceed the maximum spacing required in the component specifications, where applicable.
13. **Availability:** 6DS Supports are marketed throughout the United States through representatives and distributors.
14. **Maintenance:** Normal maintenance is not required. Semi-annual inspection is required to check frame position and set component alignment, check proper weight distribution, and to correct improper installation that may cause pipestand damage or failure.
15. **Technical Services:** Please call MIRO INDUSTRIES, INC: (800) 768-6978 or visit our website [www.miroind.com](http://www.miroind.com) for technical information and for graphic and CAD drawing downloads.