Specification and Data Sheet

MODEL NO. 6-DS
MODEL NO. 8-DS
MODEL NO. 10-DS

1. **Product Name:** DUCT "H" TYPE ADJUSTABLE SUPPORTS MODEL NO. 6-DS, 8-DS and 10-DS. NOTE: Duct or "H" type supports are given model numbers which correspond to the allowable loads. 6-DS, 8-DS and 10-DS are for heavier, larger duct. All duct supports are manufactured custom at the MIRO Industries plant.
2. **Design Emphasis:** The 6-DS, 8-DS and 10-DS duct or "H" type support has been designed specifically for square and round duct work. The versatility of the design for this product enables it to expand to hold any number of duct running along the roof for maximum efficiency and cost savings to customers, contractors, and owners. Thus, this duct or "H" type support product can be used to hold ganged duct, stacked duct or various utilities across and at varying heights above the roof. See below.
3. **Manufacturer:** MIRO INDUSTRIES, INC. 844 South 430 West, Suite 100, Heber City, Utah 84032 Phone: (800) 768-6978 Fax: (800) 440-7958
4. **Product Description:** A frame constructed of strut and MIRO's patented bases are used to support duct or various utilities on flat roofs. Unique design allows a sturdy support without penetrating or causing damage to the roof membrane. Ducts or various utilities rest on a 1-5/8" x 7/8", 1-5/8" x 1-5/8" or 1-5/8" x 3-1/4" strut and are adjustable in height.
5. **Product Performance:** The frame system serves to keep the duct or various utility system directly over and beneath 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 Duct Supports 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 roof-mounted ducts occur. With heavier loads it is prudent to use a MIRO Support Pad or other traffic pad to further protect the roof membrane.
7. **Load Weight:** The 6-DS, 8-DS and 10-DS supports are engineered to ensure member/component capacities and deflection criteria are not exceeded. Maximum loading from any MIRO base to the finished roof surface is not to exceed 2.0 psi unless specifically allowed otherwise 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 pipestand consists of two major components: (1) Two roof deck bases of MIRON TPC™ or polycarbonate plastic, hot-dip galvanized or stainless steel which set upon the roof membrane, (2) A braced strut or telescoping assembly which is supported by, rests upon, and is connected to the two bases.
9. **Size:** Support Models are made as follows: Each of the two deck bases 8" x 14" (HDG or SS), 12" x 16" (HDG or SS), 9" x 15 1/4" (P), 9" x 31.69" DB (P), 18" x 16" SB (P), or 19" x 23" (P). The 6-DS has a bar width which allows at least 14" between strut assembly and can adjust in height to support duct from 12" to a desired height. The 8-DS-SB has a bar width which allows at least 18" between strut assembly and can adjust in height to support duct or utility system from 12" to a desired height. The 8-DS-DB has a bar width which allows at least 18" between strut assembly and can adjust in height from 12" to a desired height. The 10-DS has a bar width which allows at least 22" between strut assembly and can adjust in height from 12" to a desired height.
10. **Adjustable Height:** The Models 6-DS, 8-DS and 10-DS and its related configurations allow adjustable height as desired or required by the code or roof system. Each model can be configured to allow plus or minus height above the roof. Cross-bracing is required for elevations 36" and higher. Purchasers should specify desired heights upon ordering the supports.
11. **Installation Process:** (1) Center the duct support beneath the duct or utility system so that the frame allows the duct to be squarely over and through the horizontal bar. (2) Adjust the support to the desired height and to even load with other supports. Make certain the horizontal support strut is level. (3) Set the duct or utility system in the horizontal bar without dropping or causing undue impact. MIRO recommends additional sheet of roofing material, a MIRO Deck Plate, or MIRO Support Pad beneath the duct support. For built-up roofs, all loose aggregate from an area 2" larger than each base should be removed from the area directly beneath the duct support and then follow the installation directions set forth above. Care should be taken to install each support so it supports a proportional and equal amount of weight at each support.
12. **Spacing:** Manufacturer's recommended spacing is not to exceed 8 foot centers depending upon the load. Do not exceed load weight and make certain each duct support is adjusted in height to even load at all duct supports. Support spacing is not to exceed the maximum spacing required in the duct specifications where applicable.
13. **Availability:** Duct Supports are marketed throughout the United States through representatives and distributors.
14. **Maintenance:** Normally maintenance is not required. Semi-annual inspection is required to check duct support position and set duct alignment, weight distribution and improper installation which may cause duct support damage or failure.
15. **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.