

Specification and Data Sheet

MODEL NO. 6-DS and 8-DS

MODEL NO. 6-DSA and 8-DSA

1. **Product Name:** DUCT SUPPORTS MODEL NO. 6-DS, 6-DSA, 8-DS AND 8-DSA. NOTE: Duct Supports are given model numbers which correspond to the allowable loads. 6-DS and the 6-DSA are used for lighter, smaller duct and 8-DS and the 8-DSA are for heavier, larger duct. All duct supports are manufactured custom at the MIRO Industries plant.
2. **Design Emphasis:** The 6-DS, 6-DSA, 8-DS and 8-DSA duct 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 support product can be used to hold ganged duct or stacked duct across and at varying heights above the roof. See below.
3. **Manufacturer:** MIRO INDUSTRIES, INC., 2700 South 900 West, Salt Lake City, Utah 84119 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 on flat roofs. Unique design allows a sturdy support without penetrating or causing damage to the roof membrane. Ducts rest on a 1 5/8" x 1 5/8" or 1 5/8" x 7/8" strut and are adjustable in height. All 6-DSA and 8-DSA models are manufactured in a 12 gauge telescoping design for maximum adjustability in length and height. The duct support base is made of stainless steel, hot-dip galvanized steel or polycarbonate plastic and all other metal parts are made of hot-dip galvanized steel.
5. **Product Performance:** The frame system serves to keep the duct system directly over and beneath the frame without binding and allows for some lateral expansion of the duct 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:**
 - 6-DS: Maximum load weight not to exceed 300 lbs. per duct support or 150 lbs. on each base
 - 6-DSA: Maximum load weight not to exceed 150 lbs. per duct support or 75 lbs. on each base or 20" spiral duct
 - 8-DS: Maximum load weight not to exceed 700 lbs. per duct support or 350 lbs. on each base
 - 8-DSA: Maximum load weight not to exceed 300 lbs. per duct support or 150 lbs. on each base or 26" spiral duct
8. **Composition and Materials:** The pipestand consists of two major components: (1) Two roof deck bases of stainless, hot-dip galvanized steel or polycarbonate plastic 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 12" x 16", 9" x 15.25", 12.07" x 16", 9" x 31.69" or 18" x 16". The 6-DS has a bar width which allows at least 10" between strut assembly and can adjust in height to support duct from a low of 12" to a desired height. The 6-DSA has a bar width which allows at least 18" between strut assembly and can adjust in height to support duct from a low of 10" to a high of 24". The 8-DS-SB has a bar width which allows at least 16" between strut assembly and can adjust in height to support duct from a low of 12" to a desired height. The 8-DS-DB has a bar width which allows at least 12" between strut assembly and can adjust in height from a low of 12" to a desired height. The 8-DSA has a bar width that allows at least 24" between strut assembly and can adjust in height to support duct from a low of 10" up to a high of 36". The strut is 1-5/8" x 7/8" or 1-5/8" square, the telescoping is 1-5/8" and is constructed at various heights to give duct clearance adjustment above the roof plus or minus. The 6-DSA and the 8-DSA are also adjustable by width.
10. **Adjustable Height:** The Models 6-DS, 6-DSA, 8-DS and 8-DSA 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 two pipestands every 4th or 5th pipestand is recommended and required for elevations 36" and higher. Purchasers should specify desired heights upon ordering the duct supports.
11. **Installation Process:** (1) Center the duct support beneath the duct so that the frame allows the duct to be squarely over and through the horizontal bar. (2) Adjust the duct support to the desired height and to even load with other duct supports. Make certain the horizontal support strut is level. (3) Set the duct in the horizontal bar without dropping or causing undue impact. For heavier loads it is prudent to install an 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 duct support so it supports a proportional and equal amount of weight at each duct support.

OPTIONAL METHOD OF INSTALLATION (Not Recommended): Where code requires or as desired, the duct supports may be attached to the roof structure by appropriate and compatible rooftop fasteners through holes then drilled in the bases' pitchpan at the time of installation. After attachment has been made to the roof, the pitchpan may be filled with asphalt material or cement to help seal the areas around the fasteners.
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.
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.