

Specification and Data Sheet

MODEL NO. 4-DSA 12 x 12

MODEL NO. 4-DSA 18 x 18

1. **Product Name:** DUCT SUPPORT MODEL NO. 4-DSA 12 x 12 and 4-DSA 18 x 18. NOTE: The 4-DSA are sold as kits only.
2. **Design Emphasis:** The 4-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 vertically and horizontally to hold small duct and cable trays running along the roof for maximum efficiency and cost savings to customers, contractors, and owners.
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 pre-galvanized gauge channel and are adjustable in height and width. All 4-DSA models are manufactured in a 16 or 14 gauge pre-galvanized telescoping design for maximum adjustability in length and height. The bases are made out of polycarbonate plastic.
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.
6. **Compatibility:** MIRO Duct Supports are recommended for use on and compatible with all current types of decking and with all commonly used built-up and single-ply roofing membranes where room-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:** 4-DSA 12 x 12: Maximum load weight not to exceed 50 lbs. per duct support or 25 lbs. on each base or 10" spiral duct
4-DSA 18 x 18: Maximum load weight not to exceed 100 lbs. per duct support or 50 lbs. on each base or 16" spiral duct
8. **Composition and Materials:** The pipestand consists of two major components: (1) Two roof deck bases of polycarbonate plastic which set upon the roof membrane, (2) Telescoping assembly which is supported by, rests upon, and is connected to the two bases.
9. **Size:** Both 4-DSA models have two deck bases 8" x 8". The 4-DSA 12 x 12 has 16 gauge telescoping and has a maximum 12" height and width. The 4-DSA 18 x 18 has 14 gauge telescoping and has a maximum 18" height and width.
10. **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.
11. **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.
12. **Availability:** Duct Supports are marketed throughout the United States through representatives and distributors.
13. **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.
14. **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.