MIRO Product Summary

January 2008

Water & Steam Supports

Gas & Mechanical Supports

Mechanical Equipment Supports

Conduit & Condensate Supports

Duct & Cable Tray Supports

Crossover, Walkway, Ramp and Platform Systems

The simple solution for rooftop support.

U.S. Patent Numbers:
4,502,653; D433515; D427049; D436522; 6,364,256; 6,520,456; D496058; D490295; D466393; D466394; 4,513,934; D498,133; D498,660; D498,661.

MIRO INDUSTRIES, INC.
ROOFTOP SUPPORT PRODUCTS

... The trusted brand since 1982.
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### Full Freight Allowed
MIRO will pay freight on any order of $2,500 net of the following product: Model 1.5, 3-R-2, 3-R-4, 3-RAH-7, 3-RAH-12, 4-R, 4-RAH-7, 4-RAH-12, 5-R, 5-RAH-7, 5-RAH-12, 6-RAH-7, 6-RAH-12, 2.5-CS-2, 2.5-CS-5, 2.5-CS-7, 2.5-CS-12, 16-Base Strut-7, 16-Base Strut-12, 20-Base Strut-7, 20-Base Strut-12, and the MIRO Support Pad
GAS AND MECHANICAL SUPPORTS

**1.5**
- 1 1/2" ID maximum pipe capacity
- 19/10" OD maximum pipe capacity
- Pipe clearance is 2", even load required, maximum load is 80 lbs.
  63 per case, 22 lbs. per case
  32 per case, 12 lbs. per case

**3-R-2**
- 3" ID maximum pipe capacity
- 3 3/4" OD maximum pipe capacity
- Pipe clearance is 2.15", even load required, maximum load is 100 lbs.
  24 per case, 26 lbs. per case

**3-R-4**
- 3" ID maximum pipe capacity
- 3 3/4" OD maximum pipe capacity
- Pipe clearance is 4", even load required, maximum load is 100 lbs.
  24 per case, 28 lbs. per case

**3-RAH-7**
- 3" ID maximum pipe capacity
- 3 3/4" OD maximum pipe capacity
- Adjustable height up to 7", even load required, maximum load is 100 lbs.
  12 per case, 23 lbs. per case

Full freight allowed on any combination of specified polycarbonate stock product order of $2,500 net or more. See page 1 for more details.
**GAS AND MECHANICAL SUPPORTS**

3-RAH-12
- 3" ID maximum pipe capacity
- 33⁄4" OD maximum pipe capacity
- Adjustable height up to 12", even load required, maximum load is 100 lbs.
- 5 per case, 29 lbs. per case

4-R
- 4" ID maximum pipe capacity
- 5" OD maximum pipe capacity
- Pipe clearance is 2", even load required, maximum load is 125 lbs.
- 12 per case, 12 lbs. per case

4-RAH-7
- 4" ID maximum pipe capacity
- 5" OD maximum pipe capacity
- Adjustable height up to 7", even load required, maximum load is 125 lbs.
- 12 per case, 23 lbs. per case

4-RAH-12
- 4" ID maximum pipe capacity
- 5" OD maximum pipe capacity
- Adjustable height up to 12", even load required, maximum load is 125 lbs.
- 5 per case, 29 lbs. per case

Full freight allowed on any combination of specified polycarbonate stock product order of $2,500 net or more. See page 1 for more details.
**5-R**
- 5" ID maximum pipe capacity
- 6" OD maximum pipe capacity
- Pipe clearance is 2", even load required, maximum load is 150 lbs.
- 8 per case, 19 lbs. per case

**5-RAH-7**
- 5" ID maximum pipe capacity
- 6" OD maximum pipe capacity
- Adjustable height up to 7", even load required, maximum load is 150 lbs.
- 7 per case, 29 lbs. per case

Full freight allowed on any combination of specified polycarbonate stock product order of $2,500 net or more. See page 1 for more details.

**5-RAH-12**
- 5" ID maximum pipe capacity
- 6" OD maximum pipe capacity
- Adjustable height up to 12", even load required, maximum load is 150 lbs.
- 6 per case, 29 lbs. per case

**6-RAH-7**
- 6" ID maximum pipe capacity
- 8½" OD maximum pipe capacity
- Adjustable height up to 7", even load required, maximum load is 250 lbs.
- 4 per case, 42 lbs. per case
**GAS AND MECHANICAL SUPPORTS**

**6-RAH-12**
- 6” ID maximum pipe capacity
- 8¼” OD maximum pipe capacity
- Adjustable height up to 12”, even load required, maximum load is 250 lbs.

*4 per case, 44 lbs. per case*

**3-RAH-7 HDG**
- 3” ID maximum pipe capacity
- 3¾” OD maximum pipe capacity
- Adjustable height up to 7”, even load required, maximum load is 100 lbs.

*6 per case, 20 lbs. per case*

**3-RAH-7 SS**
- 3” ID maximum pipe capacity
- 3¾” OD maximum pipe capacity
- Adjustable height up to 7”, even load required, maximum load is 100 lbs.

*4 per case, 20 lbs. per case*

**4-RAH-7 HDG**
- 4” ID maximum pipe capacity
- 5” OD maximum pipe capacity
- Adjustable height up to 7”, even load required, maximum load is 150 lbs.

*4 per case, 27 lbs. per case*

**Full freight allowed on any combination of specified polycarbonate stock product order of $2,500 net or more. See page 1 for more details.**

**HDG=Hot-Dip Galvanized**

**SS=Stainless Steel**
**GAS AND MECHANICAL SUPPORTS**

**4-RAH-7 SS**
- 4" ID maximum pipe capacity
- 5" OD maximum pipe capacity
- Adjustable height up to 7", even load required, maximum load is 150 lbs.
  4 per case, 23 lbs. per case

**6-RAH-7 HDG**
- 6" ID maximum pipe capacity
- 8½" OD maximum pipe capacity
- Adjustable height up to 7", even load required, maximum load is 150 lbs.
  4 per case, 30 lbs. per case

**6-RAH-7 SS**
- 6" ID maximum pipe capacity
- 8½" OD maximum pipe capacity
- Adjustable height up to 7", even load required, maximum load is 150 lbs.
  4 per case, 30 lbs. per case

**6-RAH-RS (HDG) (SS)**
- 6" ID maximum pipe capacity
- 8½" OD maximum pipe capacity
- Adjustable from 4" low up to 7" high, even load required
- Each sold separately
- Sold as a kit (SS or HDG)

_ss=Stainless Steel_
CONDUIT AND CONDENSATE SUPPORTS

2.5-Conduit Support-2
- 2\(\frac{1}{2}\)" ID maximum pipe capacity
- 3" OD maximum pipe capacity
- Pipe clearance is 2\(\frac{1}{2}\)",
  even load required, maximum load is 100 lbs.
  12 per case, 25 lbs. per case

2.5-Conduit Support-5
- 2\(\frac{1}{2}\)" ID maximum pipe capacity
- 3" OD maximum pipe capacity
- Pipe clearance is 2\(\frac{1}{2}\)" to 5",
  even load required, maximum load is 100 lbs.
  12 per case, 28 lbs. per case

2.5-Conduit Support-7
- 2\(\frac{1}{2}\)" ID maximum pipe capacity
- 3" OD maximum pipe capacity
- Pipe clearance adjustable up to 7",
  even load required, maximum load is 100 lbs.
  12 per case, 30 lbs. per case

2.5-Conduit Support-12
- 2\(\frac{1}{2}\)" ID maximum pipe capacity
- 3" OD maximum pipe capacity
- Pipe clearance adjustable up to 12",
  even load required, maximum load is 100 lbs.
  5 per case, 28 lbs. per case

Full freight allowed on any combination of specified polycarbonate stock product
order of $2,500 net or more. See page 1 for more details.
12-Base Strut-7 HDG
- 12" Strut-1 5/8" x 13/16"
- Pipe clearance adjustable up to 7”, even load required,
  maximum load is 150 lbs.
  4 per case, 30 lbs. per case

12-Base Strut-7 SS
- 12" Strut-1 5/8" x 13/16"
- Pipe clearance adjustable up to 7”, even load required,
  maximum load is 150 lbs.
  4 per case, 30 lbs. per case

16-Base Strut-7
- 16" Strut-1 5/8" x 13/16"
- Pipe clearance adjustable up to 7”, even load required,
  maximum load is 125 lbs.
  6 per case, 30 lbs. per case

16-Base Strut-12
- 16" Strut-1 5/8" x 13/16"
- Pipe clearance adjustable up to 12”, even load required,
  maximum load is 125 lbs.
  4 per case, 30 lbs. per case

HDG=Hot-Dip Galvanized
SS=Stainless Steel

Full freight allowed on any combination of specified polycarbonate stock product order of $2,500 net or more. See page 1 for more details.
CONDUIT AND CONDENSATE SUPPORTS

16-Base Strut-7 HDG
- 16" Strut - 1 5/8" x 1 3/16"
- Pipe clearance adjustable up to 7", even load required, maximum load is 150 lbs.
  4 per case, 30 lbs. per case
HDG=Hot-Dip Galvanized

16-Base Strut-7 SS
- 16" Strut - 1 5/8" x 1 3/16"
- Pipe clearance adjustable up to 7", even load required, maximum load is 150 lbs.
  4 per case, 30 lbs. per case
SS=Stainless Steel

20-Base Strut-7
- 20" Strut — 1 3/8" x 1 3/16"
- Designed to support conduit (ganged) cable trays or other mechanical piping
- Adjustable up to 7" high, even load required, maximum load is 250 lbs.
  4 per case, 55 lbs. per case

20-Base Strut-12
- 20" Strut — 1 3/8" x 1 3/16"
- Designed to support conduit (ganged) cable trays or other mechanical piping
- Adjustable up to 12" high, even load required, maximum load is 250 lbs.
  4 per case, 55 lbs. per case

Full freight allowed on any combination of specified polycarbonate stock product order of $2,500 net or more. See page 1 for more details.
Miro Industries, Inc.

Pricing
To obtain pricing for models 6-H, 8-H and 16-H, call MIRO and have the following information available:
1. Pipe type
2. Pipe sizes and number of pipe
3. Pipe contents
4. Clearance height desired above the roof
5. Thickness of any insulation around pipe
WATER AND STEAM SUPPORTS

**6-H (P)**
- 6" ID maximum pipe capacity
- 7½" OD maximum pipe capacity
- Adjustable height, even load required, maximum load is 300 lbs. per pipestand, 150 lbs. per base

**6-H (SS)**
- 6" ID maximum pipe capacity
- 7½" OD maximum pipe capacity
- Adjustable height, even load required, maximum load is 300 lbs. per pipestand, 150 lbs. per base

**6-H (HDG)**
- 6" ID maximum pipe capacity
- 7½" OD maximum pipe capacity
- Adjustable height, even load required, maximum load is 300 lbs. per pipestand, 150 lbs. per base

**8-H (SS) (HDG)**
- 8" ID maximum pipe capacity
- 9" OD maximum pipe capacity
- Adjustable height, even load required, maximum load is 700 lbs. per pipestand, 350 lbs. per base

Variations of single pipe to multiple pipe systems available.
16-H (P)
- 16" ID maximum pipe capacity
  18" OD maximum pipe capacity
- Adjustable height, even load required, maximum load is 1,600 lbs. per pipestand, 800 lbs. per base

8-H-DB (P)
- 8" ID maximum pipe capacity
  9" OD maximum pipe capacity
- Adjustable height, even load required, maximum load is 700 lbs. per pipestand, 350 lbs. per base

8-H-SB (P)
- 8" ID maximum pipe capacity
  9" OD maximum pipe capacity
- Adjustable height, even load required, maximum load is 700 lbs. per pipestand, 350 lbs. per base

Variations of single pipe to multiple pipe systems available.
Variation and Flexibility of Duct Supports & Cable Tray Supports

Pricing
To obtain pricing for the 6-DS and the 8-DS, have the following information available:
1. Duct dimension
2. Insulation
3. Clearance height off roof
4. Lineal feet of duct

6-DS (P)
- Support square, rectangle or round duct
- Adjustable in height, maximum load 150 lbs. per duct support, 75 lbs. per base
  Telescoping can be provided for added adjustment

6-DS (HDG) (SS)
- Support square, rectangle or round duct
- Adjustable in height, maximum load 150 lbs. per duct support, 75 lbs. per base
  Telescoping can be provided for added adjustment
8-DS-DB (P)
- Support square, rectangle or round duct
- Adjustable in height, even load required, maximum load 300 lbs. per duct support, 150 lbs. per base
- Telescoping can be provided for added adjustment

8-DS-SB (P)
- Support square, rectangle or round duct
- Adjustable in height, even load required, maximum load 300 lbs. per duct support, 150 lbs. per base
- Telescoping can be provided for added adjustment

8-DS (HDG) (SS)
- Support square, rectangle or round duct
- Adjustable in height, even load required, maximum load 300 lbs. per duct support, 150 lbs. per base
- Telescoping can be provided for added adjustment

Variations of single to stacked duct supports available.

Pricing
To obtain pricing for the mechanical supports, have the following information available:
1. Width and Length desired
2. Height off roof
3. Weight of unit

HD-Mechanical Support
- Adjustable in height, maximum load 600 lbs.
- For pricing or questions, contact MIRO. Have weight and dimensions of mechanical units for proper price quotations and shipping weights.

LD-Mechanical Support
- Adjustable in height, maximum load 200 lbs.
- Available Sizes: 18" x 18", 24" x 24", 30" x 30", 36" x 36"
- Custom sizes available
SUPPORT PADS AND DECK PLATES

Support Pad
- Support Pad is made of low density polyethylene
  15 3/4" by 19 3/4" Pad dimensions
- 15 per case, 33 lbs. per case

Deck Plates SS
- 12" square deck plate - 10 per case, 20 lbs. per case
- 18" square deck plate - 10 per case, 45 lbs. per case
- Available in stainless steel only
- Larger plates can be custom ordered
  (call MIRO for size and pricing).

CROSSOVER, WALKWAY, RAMP AND PLATFORM PRICING

Pricing
To obtain pricing for the crossover, walkway, ramp and platform systems, have the following information available:
  1. Width and length desired
  2. Height off roof
  3. Specify if railing is needed
  4. Specify type of roof
MIRO Custom Design

The design staff at MIRO can help you with layout, design and installation for your rooftop support needs. We can build what you need.

When quoting custom products, the following questions need to be answered:

**Pipe Custom Product**
1. Quantity of supports required  
   (total footage of pipe)
2. Type of pipe
3. Size of pipe
4. Pipe contents
5. Clearance height above roof
6. Thickness of any insulation around pipe

**Duct and Cable Tray Custom Product**
1. Dimensions of duct
2. Clearance height above roof
3. Total footage of duct
4. Insulation, if any

**Crossover, Walkway, Ramp and Platform System**
1. Width and length desired
2. Height off roof
3. Specify if railing is needed
4. Specify type of roof

**Mechanical Supports**
1. Width and length desired
2. Height off roof
3. Weight of roof

*Call MIRO with information listed above. MIRO will provide CAD drawings and pricing in a timely manner.*
**MIRO Custom Made**  
*Seismic and Wind Uplift Supports*

Protect your rooftop pipe and duct from earthquakes and other natural disasters by using Code Approved Seismic Zone 4 and Wind Uplift products from MIRO. Meets all major seismic code requirements. To obtain pricing and information regarding seismic and wind uplift supports please call MIRO.

**ACCESSORIES**

**1.5 Spacer**
- Attached to 1.5 to give increased height
- 1½" additional pipe clearance per 1.5 Spacer
  - 63 per case, 23 lbs. per case
  - 32 per case, 14 lbs. per case

**3-R Spacer**
- Attached to 3-R-2 or 3-R-4 to give increased height
- 2" additional pipe clearance per 3-R Spacer
  - 24 per case, 18 lbs. per case

**Roller 3**
- 3" sturdy polycarbonate roller, shaft 5/8", end diameter 17/8", roller surface has a 3" radius arch

**Roller 5**
- 5" sturdy polycarbonate roller, shaft 5/8", end diameter 27/8", roller surface has a 5" radius arch
**3-R Bracket**
- Polycarbonate bracket to be inserted into existing 3-R-2 to achieve clearance height of 4”

**3-R-2 Pipestrap**
- Aluminum pipe strap for model 3-R-2
- Includes SS screws

**1.5 Pipestrap**
- Aluminum pipe strap for model 1.5
- Includes SS screws

**3-R-4 Pipestrap**
- Aluminum pipe strap for model 3-R-4
- Includes SS screws

**4-RAH Pipestrap**
- Aluminum pipe strap for models 3-RAH-7, 3-RAH-12, 4-R, 4-RAH-7 and 4-RAH-12

**6-RAH Pipestrap**
- Aluminum pipe strap for models 5-RAH, 5-RAH-12, 6-RAH-7, and 6-RAH-12

**Pliobond 9706 Primer**
- Pliobond 9706 Low VOC Primer $38.00 Gal.
- Manufactured by Ashland

**Plioseal Butyl Tape**
- Dimensions 3” by 100’ $45.50 per roll
- Dimensions 6” by 100’ $64.50 per roll
- Manufactured by Ashland
## CHART OF USUAL PIPE DIAMETERS

<table>
<thead>
<tr>
<th>PIPE</th>
<th>PVC (Steel Size)</th>
<th>PVC (C900)</th>
<th>Cast Iron</th>
<th>Steel</th>
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The above dimensions are for usual and customary pipe sizes. Actual pipe sizes may vary from manufacturer to manufacturer.
**MRTI, Inc.** is to be a recognized leader in the rooftop support installation industry. Providing a professional service that strategically meets your needs. It is our goal to accomplish this vision through a team of highly motivated professionals, providing an advisory committee in the area of estimating, design, and installations.

**MRTI** is the one stop source for rooftop supports from planning through completion. Our goal is your complete satisfaction with our service.

**MRTI** provides a field staff ready to work while maximizing the value of your investment.

**Services Provided:** On-Site Take-Offs, Installation, Maintenance Programs, Consulting, Repairs.

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www.mrtiinstallation.com
Standard Terms and Conditions of Sale

PRICES
All prices are net and applicable only within the Continental United States. Prices are subject to change without notice.

CREDIT
Invoices are due upon receipt and are past due after 30 days. A charge of 1 1/2% per month of such maximum lesser amounts as is authorized by law, will be made on overdue accounts. Purchaser agrees to be subject to the jurisdiction of state and federal courts of Utah in any dispute over invoices and to pay reasonable attorney fees.

MINIMUM ITEM ORDER QUANTITIES
Standard box quantity. $10 broken case fee for each box broken.

FREIGHT POLICY
F.O.B. SLC, Utah, prepay freight & add

DELIVERY
Immediate on maintained stock.
MIRO Industries, Inc. reserves the right to change product design, standard packages, prices and terms without notice.

SPECIAL NOTE
The following abbreviations are used:
SS - Stainless Steel
HDG - Hot-Dip Galvanized
P - Polycarbonate Resin
OD - Outside Diameter
ID - Inside Diameter

Return Policy

(1) If a reasonable error in purchase designation has occurred by purchaser; (2) if MIRO products have not been used, damaged, or placed upon the roof; and (3) if such stock is marketable; purchaser may request such product be returned; but only if purchaser meets the above three requirements, pays all return shipping charges, and pays a 25% restocking return charge. Custom orders of specially manufactured items are not returnable.

No returns are allowed at distributor discount sales, broken case quantity sales or without a return number.

20-Year Limited Warranty

When installed in accordance with MIRO Industries specifications instructions using only MIRO materials, MIRO will warrant its support systems for 20 years from the date of installation to operate properly and against damaging the roof membrane. Any substitution or use of other material other than MIRO products will void the warranty.

MIRO’s liability under this warranty and buyer’s sole and exclusive remedy will be to provide replacement product free of charge. MIRO’s total liability for sale of this product shall in no event exceed the original cost of the product. MIRO shall not be liable for costs of labor to install product.

LIMITATIONS: This warranty is not a maintenance agreement or an insurance policy, and does not obligate MIRO to repair leaks if determined to be a result of the following:

• Building design, installation, or construction error.
• Damage to the roofing system by any natural disaster including, but not limited to, floods, lightning, hail, earthquakes, hurricane rated winds, etc.
• Structural movement below the roof membrane and flashings.
• Misuse of roof services, abuse, vandalism, civil disobedience, acts of war, exposure to damaged chemicals including, but not limited to, solvents, oils and acids.
• Failure of the owner to promptly notify MIRO in writing of the claim, which prevents reasonable inspection and verification, and the failure of written approval from MIRO for change in building usage, modification or additions of items to the existing roof.
• Failure to properly inspect, adjust and maintain the supports and pads on an annual basis.

MIRO hereby disclaims and assumes no responsibility for incidental or consequential damage to the structure, its contents, loss of time, profits, energy or any inconvenience from any type of roof leak or damage.

OWNER’S RESPONSIBILITY
In the event of a damage or leak in the roofing system caused by MIRO pipe supports, the building owner must promptly notify MIRO in writing within ten (10) days after discovery of the leak or damage and no longer than one (1) year after the onset of actual damage. Regular maintenance is required to keep this warranty in full force and effective. (See MIRO Industries specification sheets.)

MIRO does not practice professional engineering or architecture; therefore, neither the issuance off this warranty or any review of the building’s construction by our representatives shall constitute any additional warranty, inspection or approval.

This warranty becomes effective only upon full payment to MIRO for all MIRO products and services, a complete installation and inspection of MIRO products, and MIRO’s authorized signature below.

Transfer of Warranty: This warranty may only be transferred by the building owner to a subsequent purchaser of the property by giving not less than ten (10) days written notice to MIRO of such transfer, MIRO has opportunity to inspect and recertify the roofing system, and respond to the building owner and the purchaser.

MIRO Industries, Inc.
07/2004
Rooftop Products To Fit Every Application.

GAS & MECHANICAL PIPING

1.5  3-R-2  3-RAH-12  4-RAH-7  6-RAH-7

CONDUIT & CONDENSATE

2.5-CS-2  2.5-CS-7  2.5-CS-12  16-BASE STRUT-7  20-BASE STRUT-7

WATER & STEAM

2.5-SB-H  5-SB-H  6-H  8-H-DB  16-H

DUCT & MECHANICAL EQUIPMENT

6-DS  8-DS-SB  MECH SUPPORT-LD  MECH SUPPORT-HD  DECK PLATE

ACCESSORIES

4-RAH PIPESTRAP  3-R-2 PIPESTRAP  ROLLER  SPACER  SUPPORT PAD

Lowest Market Prices • No Roof Penetrations
Simple Installation • Superior Design