



Recommended Installation Procedures:

Big Roller Support -

(Non-Penetrating Support Systems for Rooftop Piping)

Note: MAPA Products does not perform engineering design; the structural engineer is responsible for confirming that the structure upon which supports are installed is designed in accordance with accepted design codes and standards which allow for the installation of rooftop equipment and piping. Further, MAPA Products shall not be liable for damage or injury caused by improper use or installation of the product.

Trapeze Supports:

- If applicable, remove ballast and/or debris from the designated support area.
- Rotate bases to Center and tighten nuts from underside of base.
- If an additional support pad is to be utilized, place pad in the designated support area. If specified, adhere support pad to roof membrane as directed by the roofing manufacturer or as otherwise stated in project specifications.
- Place support as appropriate on either the roof membrane or centered on the support pad. Where specified adhere support to pad. MAPA Products recommends E-6000 adhesive.
- Place piping on the support. Single piping should be centered with multiple pipes spaced equally on the support. In all cases, piping should be placed so that weight is evenly distributed on the support and overall system load is balanced so as not to cause undue strain on any individual support.
- Vertical adjustments should be made with regard to the nature of the installation; either leveled or tapered for flow.
- Replace ballast around the support or pad as appropriate.



Supports should be cross-braced at intervals as stated by design engineer in project specifications. Where not specified by design engineer, MAPA Products recommends cross-bracing at the end of each run where support height meets or exceeds 36" and/or where the distance from roof surface to bottom of pipe or cross member for duct exceeds 12" then at 80' intervals or where sway is detected after installation is complete.

Supports should be evenly spaced so that weights are evenly distributed and do not exceed the maximum weight as outlined by its technical information in the current product catalog or as otherwise stated in the project specifications

Maximum support spacing should not exceed 10' O.C.

Additional supports are recommended at each change of direction, branch and at each initiation and termination of the piping run.

It is the responsibility of the installer to coordinate with the specifying engineer the necessity and/or method in which the support system should be secured against wind shear or uplift.

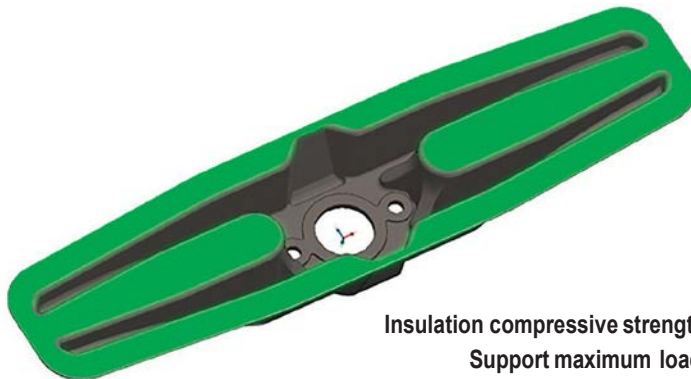


Recommended Maximum Support Spacing for Horizontal Installation

Recommended support spacing based on the ASME standard recommended pipe support spacing guidelines.

Nominal Diameter Pipe NPS (inches)	MAPA Products recommended maximum space between Supports (feet)		
	Standard Steel Pipe		Copper Tube
	Water	Steam	Water
1/2	7	8	5
3/4	7	9	5
1	7	9	6
1 1/2	9	10	8
2	10	10	8
2 1/2	10	10	9
3	10	10	10
4	10	10	10
6	10	10	10
8	10	10	10
10	10	10	10

(Maximum support spacing for PVC - Polyvinyl Chloride - pipes depends on the operating temperature. Refer to pipe manufactures data.)



Flat area per base: 62.5 in²
 Flat area per support: 125 in²
 Green notes surface area

Insulation compressive strength	2 lb/in ²	5 lb/in ²	10 lb/in ²	15 lb/in ²	20 lb/in ²
Support maximum load	250 lbs	625 lbs	1250 lbs	1875 lbs	2500 lbs

Maintenance:

Often, damage to piping and supports systems occurs during routine maintenance, renovations and/or improvements. This type of damage is difficult to verify, therefore MAPA Products must be notified ten (10) days in advance of roof traffic in conjunction with any major maintenance, renovations and/or improvements and upon completion of said traffic. Damage caused by said traffic is not warranted.

For specific challenges where project design requires custom fabrication for greater adjustability, increased elevations or greater weight loads, additional flanges, material changes, etc. may be incorporated into the design. The project engineer is encouraged to contact MAPA Products for support in these situations.

MAPA Products recommends that support systems be inspected annually. Notice of damage or rusting that is detrimental to the integrity of the support or any of the components included in the support assembly should be provided to MAPA immediately. The owner should conduct annual maintenance to inhibit rusting of any metal components. Refer to MAPA Products warranty effective 2020.