



Pipesak® Pipeline Products



GENERAL

PipePillo® is a structured pipeline pillow (SPP) used to safely support fully loaded pipelines, in rocky trenches, for the life of the pipeline.

PipePillos are light enough to be manually handled, yet dense enough to resist floatation.

PipePillos are manufactured from high strength polypropylene resins which are environmentally inert yet softer than most pipeline coatings. In addition, PipePillo's many cavities help to eliminate any cathodic shielding.

The design incorporates a patented dual frustoconical shape which transfer extreme loads effectively through to consolidated or virgin soil beneath. PipePillos offer a full 90° of support and will not damage the pipe or its coating.

Although designed as stable, long-lasting support for pipelines in rocky trenches, PipePillos also work outside the trench – as low-level pipe support during the stringing and welding processes.

When used outside the trench, PipePillo's can be used individually or stacked to various heights. Spacing can typically be two towers per joint of pipe – much like current wooden skids. In the trench for long-term support in a fully backfilled and operating condition, closer spacing is recommended.

PipePillos can also be utilized as an effective means to support exposed pipelines during and following integrity digs, limiting the requirement for compacted soil beneath the pipeline.

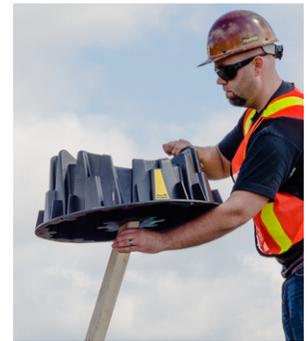
See the PipePillo dimensional data chart for more details or call us for a project specific design.

Most PipePillo sizes have a rectangular center hole, which accommodates a standard wood 2x4 for positioned placement without workers in the trench. For deeper excavations, PipePillos can be strapped to the bottom of the pipeline prior to the pipe installation.

For larger PipePillos, a hydraulically controlled installation rod can be used to quickly pick up and deposit PipePillos – one at a time.

Technical Notes

PIPEPILLO® PIPELINE SUPPORT



INSTALLATION GUIDELINES

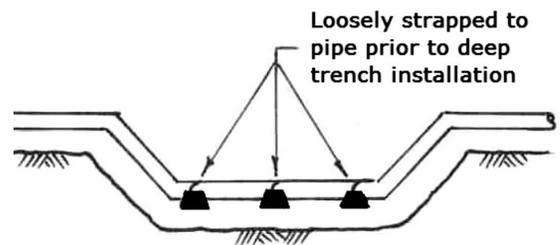
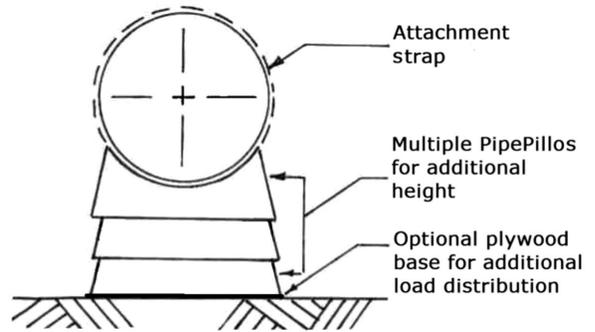
In the Trench

1. Position each PipePillo along the trench line at the required interval.
- 2A. Slide into position with a standard 16' long 2x4 ensuring the yellow centerline of each PipePillo is positioned properly before placement. Reposition PipePillos as required utilizing the installation rod to ensure centerline of each line up.
- 2B. PipePillo's can also be carefully tossed directly into the trench and straightened later.
3. As the pipeline is lowered-in, ensure it is centered over the PipePillos.
4. For inconsistent areas of trench (e.g. sags, overbends, sidebands, tie-ins, etc.) or areas where external loading is anticipated, closer spacing is recommended.
5. For deep excavations, loosely attach each PipePillo with an attachment strap (suggest 3/8"-1/2" poly rope) to the bottom of the section of pipe prior to installing. PipePillos have two side holes to accommodate attachment as shown below.

INSTALLATION GUIDELINES

Outside the Trench

1. PipePillos arrive stacked in a tight configuration as shown.
2. For stringing, space PipePillos as you would wooden skids with approximately one tower of PipePillos at each end of the pipe.
3. Additional height can be achieved by stacking PipePillos. Each PipePillo has two stacked levels ± the shipping level, which adds 3' to the height, and the extended level, which adds 4.5'-6' to the height/per PipePillo. To achieve the extended level, rotate the top PipePillo approximately 1/8 turn or 22.5 degrees off center. When stacking, ensure the corresponding 'shoulders' line up as shown. (suggested maximum of 5 PipePillos per stack)
4. For areas where soil may be loose or wet, a bottom plate of 3/4" plywood may be utilized. For long-term pipe stability and safety following welding, it is recommended every other PipePillo tower be tightly strapped to the pipeline. When the pipeline moves, its support moves with it.
5. PipePillo's can also be screwed directly to a base through the bottom flange attachment holes.



PIPEPILLO® DIMENSIONAL DATA

PipePillo® Model		SPP8	SPP16	SPP24	SPP36	SPP48	
Pipe Size (in)		Up to 4	Up to 8	Up to 16	Up to 24	Up to 36	Up to 48
Weight	lbs. (kg)	0.8 (0.4)	0.8 (0.4)	5.1 (2.3)	9.2 (4.2)	26.7 (12.1)	42.8 (19.4)
Diameter (A)	in (cm)	9 (22.8)	9 (22.8)	16 (40.6)	24 (60.9)	36 (91.4)	46 (116.9)
Overall Height (B)	in (cm)	3.3 (8.4)	3.3 (8.4)	8 (20.3)	9.4 (23.8)	14.0 (36.0)	15.5 (39.4)
Low Stacked Height (C)	in (cm)	1.5 (3.8)	1.5 (3.8)	2.75 (7)	2.75 (7)	3 (7.6)	3 (7.6)
High Stacked Height (D)	in (cm)	N/A	N/A	4.5 (11.4)	4.5 (11.5)	6 (15.2)	6 (15.2)
Pipe Support Height (E)	in (cm)	2.5 (6.4)	2 (5.1)	6 (15.2)	6 (15.2)	8 (20.3)	8 (20.3)
Ultimate Load Capacity	lbs. (kg)	3,500 (1,588)	8,500 (3,856)	20,000 (9,070)	33,000 (14,970)	65,000 (29,480)	85,000 (38,550)

