



Underground Products

Spacer Systems and Accessories for underground duct installations

GS Industries of Bassett, Ltd. Has the most complete line of Underground duct spacing systems.

GS Industries of Bassett's Under-Ground Products pioneered in engineering the first plastic spacer system more than 25 years ago, and now offers the most complete line to construction companies, civil engineers, developers and utility companies.

1. Vertical-Lok Spacers. Easy to install, labor saving, vertical and horizontal locking.
Patent No. 3,856,246.

2. Dual Sizer. An adapter that increases the range of applications for Vertical-Lok spacers.
Patent No. 4,618,114.

3. Rebar Holder. The best way to reinforce duct banks assembled with the Vertical-Lok spacers.
Patent No. 4,601,447.

4. Cap-Lok. The low cost way to top off a duct bank.

5. Universal Plugs. A standard temporary plug.
Patent No. 3,821,969.

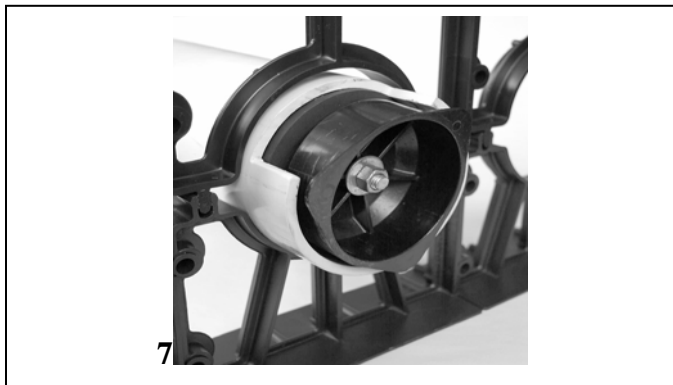
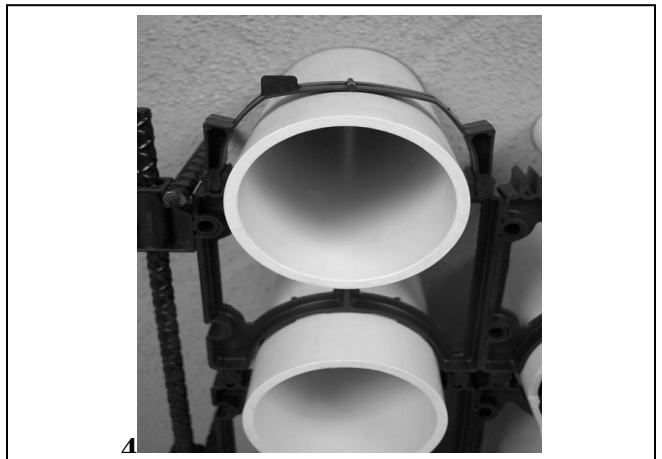
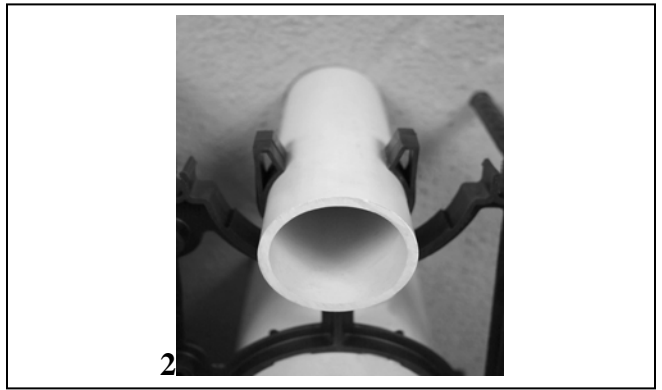
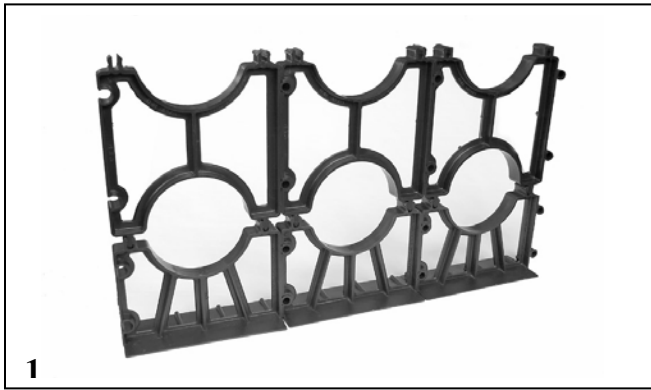
6. Regular Plug. A versatile temporary plug.

7. Pressure Resistance Plug.
Our premium duct plug.

GS Industries' underground spacers withstand rough handling and heavy loading, and resist chemicals such as aqueous acids, alkalis, salts and mineral oil. They're serviceable over a wide temperature range. The spacers are molded of polypropylene for uniformity and structural integrity. They're manufactured to withstand the normal pressures of poured concrete.

GS Industries' spacers are money savers with low installed cost, minimum handling and storage; and fast, simple assembly that reduces labor costs. Multiple units can be pre-assembled for you when specified on orders to the factory.

You get fast delivery of all types and sizes because of stocks at distributor locations, plus inventories at regional warehouses and the factory. Shipment is frequently made the same day ordered.



GS Industries Underground Products Spacer System

Vertical-Lok spacers stabilize duct banks, prevent distortion of bottom tiers and allow pre-assembly outside the trench.

The Vertical-Lok spacer system provides positive vertical and horizontal spacing of underground ducts while providing independent support for each duct in a bank. It's the fast, easy way to build completely enclosed and locked-in banks of any size, with any number of tiers and any number of ducts side by side, in straight or curved runs.

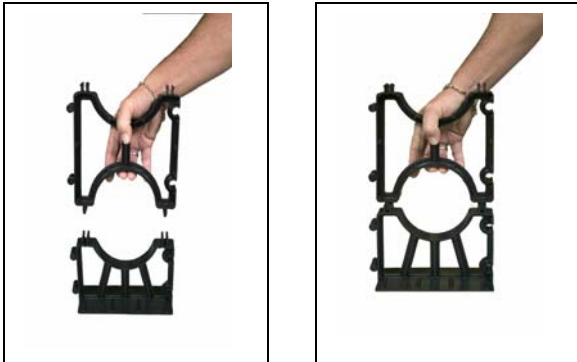
System uses modular elements

The spacer elements are modular and interlock at the sides and top to secure the ducts against separation during backfilling. Two modules are offered: a base spacer-flat at the bottom and an intermediate spacer. When the duct bank is capped with a spacer or a Cap-Lok (see accessories), the need for spacers as top caps is not necessary. The Cap-Lok is an easy and cost effective method for securing the top of the duct bank.



INTERMEDIATE AND BASE SPACERS DIMENSIONS

Base spacers provide a 3" separation between the bottom row of ducts and the trench floor, except for the 4" x 1" size which is 1 3/4".



Assembly is a snap

Base and intermediate spacers interlock both vertically and horizontally; the interlocks plus wide base-plates provide solid support for duct bank.

Push together. As shown above, the suggested method is to snap spacers together with a vertical push..

Slide together. As shown at right, above, units will also slide together; this method is for use in unusual field conditions such as duct repair.

Dimensional Data

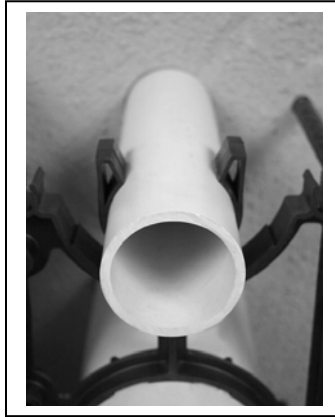
	1" Separation	1 1/2" Separation	2" Separation	3" Separation
Nominal Size	R A C	R A C	R A C	R A C
2"	Saddle spacers only	1.2 4.0 1.5	1.2 4.5 2.0	1.2 5.5 3.0
3"	Saddle spacers only	1.8 5.1 1.5	1.8 5.6 2.0	1.8 6.6 3.0
4"	2.3 5.6 1.0	2.3 6.1 1.5	2.3 6.6 2.0	2.3 7.6 3.0
5"	Saddle spacers only	2.9 7.3 1.5	2.9 7.9 2.0	2.9 8.9 3.0
6"	-- -- --	3.3 8.2 1.5	3.4 8.7 2.0	3.4 9.8 3.0
8"	-- -- --	4.3 10.2 1.5	4.3 10.7 2.0	-- -- --

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System Accessories

Dual Sizer combines multiple sizes in the same run.

The Dual Sizer is a molded adapter that enables you to mount small diameter pipe firmly in place on a run on large diameter duct for concrete encasement. This adapter fits the Vertical-Lok spacers. This is a fast, economical way to position 1", 2", or 2 1/2" conduit. The Dual Sizer is manufactured in two nominal sizes, designed for Schedule 40 PVC and will also fit fiberglass rigid EB type PVC and polyethylene pipe.



Rebar Holder makes vertical and horizontal rebar cages fast.



It's a secured way to reinforce and anchor a duct bank. The Rebar Holder locks to the side of the Vertical-Lok spacer, forming a recess for vertical rebars up to 1/2" diameter and the locking joint forms a channel for horizontal rebars. The holders can be used with a retainer fitting to increase vertical separation between two levels of a duct bank.

Cap-Lok, the low cost way to top off a duct bank.

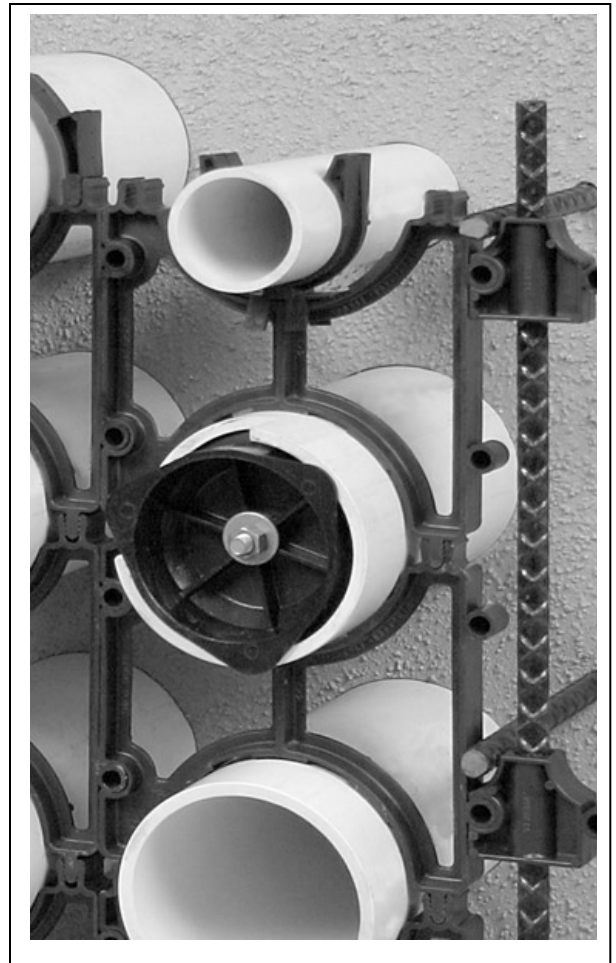
Cap-Lok is an accessory for the Vertical-Lok system. It is a lower cost alternative to using an intermediate or base spacer to cap the duct bank



Temporary and long term/permanent duct Plug...For plastic, fiber, fiberglass and concrete conduit.

Pressure resistant long term plug

When you need to seal off a duct for extended periods of time, you need this plug. It locks in place to resist pressure from within and without the duct. The locking device is a wide, expandable rubber ring that is compressed between two plastic caps when the cap nut is tightened. It also features shoulder tabs which prevent the loss of the plug into the duct. To remove after use, simply loosen the corrosion-resistant cap nut. Available in 4", 5", and 6" sizes. These plugs are recommended when positive sealing is important in permanent or semi-permanent installations. Without this type of compression fitting, low pressure generated inside the duct may be sufficient to force the plug out, or ground water pressure from the outside may force moisture into the duct.



Universal Temporary plug

Universal plugs are used for temporarily plugging standard sizes of ducts, bell-ends and terminators from 2" to 6" in diameter.

Features include.....

- . taper that makes insertion easy and tightness sure.
- . angular rings that increase body strength and aid in tight seal.
- . special plastic compound retains rigid softness over wide temperature range.
- . extended lip for easier removal
- . special tab extension on all sizes, with hole to receive a rope in preparation for pulling cable at a later date.

Regular Temporary plug

Regular plugs, available in 2" to 6" diameter sizes, temporary plug all types of ducts, bell-ends and terminators. Heavy construction, smooth wall, tapered for easy insertion and tight fit; extended lip for fast removal.

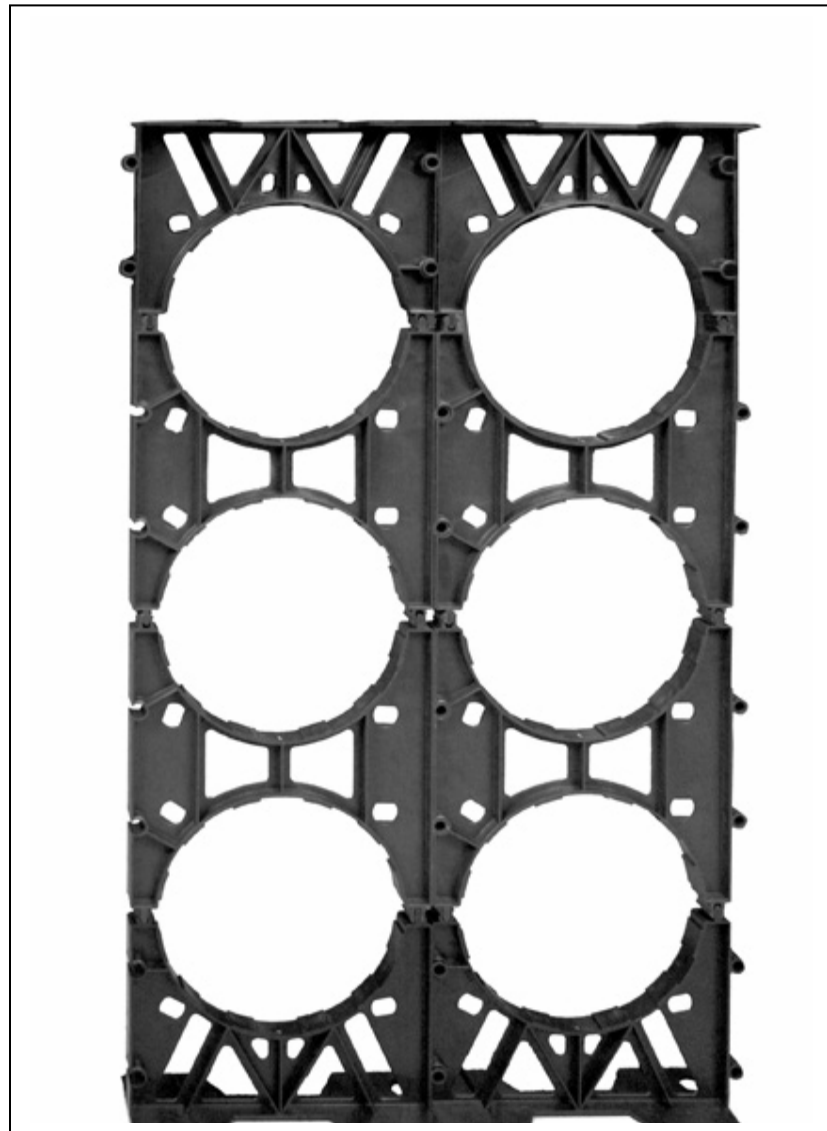


New! GS Industries 8" Underground Spacer

The 8" Underground Spacer has been designed to be the strongest, most rugged spacer in the industry.

Features/Advantages

- Crush strength of over 2,000 pounds
- Will fit and support all types of 8" duct
- Features both internal and external rebar holders
- Available in labor-saving factory assembled multiples of 2,3, or 4-way units
- Base unit inverts to form top cap for use as cover, gauge or platform for size change.



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Specifications subject to change without notice/GS Industries products are protected by patents internationally.

GS Industries products are available around the corner, around the world