



New Pig Energy

PIG[®] TRENCHLESS CURVED SILT FENCE

AT LEAST
380%
MORE STABLE
THAN SUPER
SILT FENCES

Innovative | Award-winning | Patent-pending



**WON'T
FALL OVER!**
PATENT-PENDING
DESIGN

THE MOST COST-EFFECTIVE SOLUTION ON THE MARKET

- 49% less expensive than compost sock
- 32% less expensive than super silt fence
- 7X lower freight and delivery expenses

Based on average cost per linear foot for materials and installation, inspection and sediment removal, repair and replacement, and removal and disposal.

Trenchless Curved Silt Fence — Now there's a better way to provide perimeter erosion and sediment control.

Traditional solutions like silt fences and compost socks pose high costs for installation, maintenance and disposal. Worse yet, they're prone to failure if trenching and backfilling is not done properly. Introducing a better way to work — the revolutionary Trenchless Curved Silt Fence:

- ✓ **No trenching or post hole digging** — Patent-pending sand tube and T-post system is quick and easy to install; superior performance at minimal cost
- ✓ **Convenient transport** — 24-foot kit weighs less than 130 pounds; load onto an ATV for easy on-site handling
- ✓ **Reusable hardware** — Save costs from site to site by keeping and redeploying the main components; just replace the fabric
- ✓ **No sharp wire or fence parts** — All components are thoughtfully designed for long useful life and installer safety

Our innovative "curved" design redirects hydrostatic force for at least **380% more tipping stability** than a super silt fence (see back page for details).



PIG® Trenchless Curved Silt Fence

| Item # | Description | Storage Bag | Ft./Fencing | Sand Tubes | Ground Stakes | T-Posts | Bottom Plates | Top Brackets | Retainer Pins |
|--------|---|-------------|-------------|------------|---------------|---------|---------------|--------------|---------------|
| SRD564 | 56-foot kit with 4 foot spacing (290 lbs) | 1 | 56 | 14 | — | 15 | 15 | 15 | 30 |
| SRD568 | 56-foot kit with 8 foot spacing kit (250 lbs) | 1 | 56 | 14 | 7 | 8 | 15 | 8 | 16 |
| SRD244 | 24-foot kit with 4 foot spacing (130 lbs) | 1 | 24 | 6 | — | 7 | 7 | 7 | 14 |
| SRD248 | 24-foot kit with 8 foot spacing kit (111 lbs) | 1 | 24 | 6 | 3 | 4 | 7 | 4 | 8 |

Patent pending

Kit components and replacement parts also sold separately

Call 855-PIG-LINER (744-5463) or visit newpigenergy.com to learn more and place orders.

Installation



1

Unroll the silt fence fabric on the ground with the gray panel facing up. The 5" sand tube pocket, with post holes, should be toward the fill slope.



2

Insert sand tubes into tube pockets between the post holes in the fabric.



3

Start T-posts in holes between sand tubes (studded side facing fill slope), with the white end facing up. Set with a driver, pounder or sledgehammer.



4

Drop bottom plate over end of post and place retainer clip on top. Finish driving T-post until bottom plate is tight and flush with ground, sealing tube pockets in place.



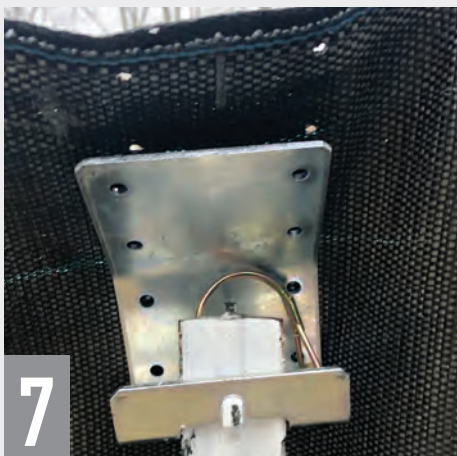
5

For 4' spacing, drive a T-post into every post hole. For 8' spacing, drive T-posts into fence ends then alternate every 4' with ground stakes and T-posts. (Use washers with ground stakes.)



6

Place angled top bracket on top of T-posts and pin into place. Ensure that the open side faces the fill slope.



7

Fold top edge of fabric over bracket, aligning prepunched holes in fabric with the top two holes in the bracket. (The bottom six holes are unused.)



8

Feed two 75# zip ties through the fabric, into the bracket and back through the fabric.



9

Tighten zip ties. The fabric will not be tight horizontally or vertically to allow the self-supporting curve to function.

PIG Trenchless Curved Silt Fence

APPLICATION

Install downslope of all disturbances in existing ground and parallel to existing contours. Install silt fence on level grade.

| Slope Percent | Maximum Slope Length (ft) Above Fence | |
|---------------|---|---|
| | 8 ft. T-Post Spacing 25" Design Height 12" Post Depth | 4 ft. T-Post Spacing 28" Design Height 18" Post Depth |
| 2 (or less) | 500 | 1000 |
| 5 | 250 | 550 |
| 10 | 150 | 325 |
| 15 | 100 | 215 |
| 20 | 70 | 175 |
| 25 | 55 | 135 |
| 30 | 45 | 100 |
| 35 | 40 | 85 |
| 40 | 35 | 75 |
| 45 | 30 | 60 |
| 50 | 25 | 50 |

Both ends should extend at least 8 feet upslope at 45° to the main fence alignment.

DEFINITION

A temporary barrier of curved geotextile (filter fabric) with sand tubes attached to supporting t-posts to remove sediment from runoff below disturbed areas.

PURPOSE

Controls sheet flow runoff from small disturbed areas where the discharge is to a stable area.

LIMITATIONS

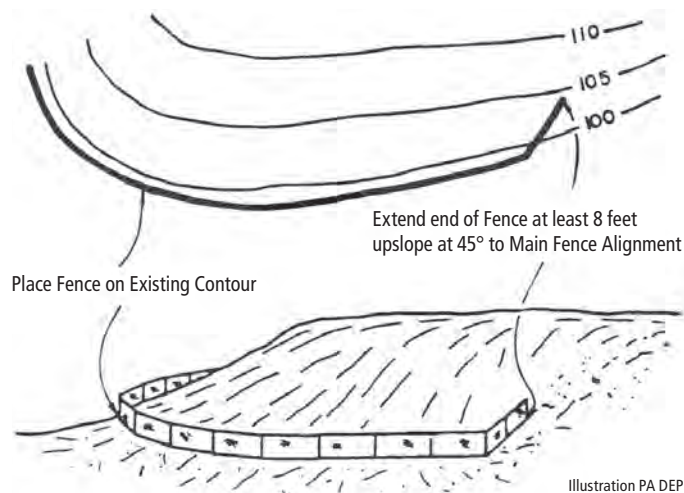
- Do not use in areas of concentrated flow (e.g. channels, swales, erosion gullies, across pipe outfalls, or as inlet protection, etc.).
- Heavy vegetation should be removed prior to installation. The fence can be used on rocky slopes if enough preparation is made to ensure good contact of the sand tube with the underlying soil along its entire length.
- Trenchless Curved Silt Fence should not be installed on uncompacted fills or in extremely loose soils (e.g. sandy loam) since this will likely result in undermining of the fence.
- Traffic shall not be permitted to cross the sand tubes.
- Should be installed at least 8 feet from the toe of fill slopes.

MAINTENANCE

- Accumulated sediment shall be removed when it reaches 11" high on T-posts. There are sediment removal lines on the studded T-post stakes for easy identification.
- The Trenchless Curved Silt Fence shall be inspected weekly and after each runoff event. Damaged sections shall be repaired or replaced within 24 hours of inspection.
- Perform all preventive and remedial maintenance work — including clean-out, repair & replacement — immediately following inspection.
- Maintenance and inspection must be continued until the site is permanently stabilized.
- Upon stabilization of the area, the fabric, sand tubes, T-posts, stakes, bottom plates, angled top brackets and pins shall be removed. Fabric shall be properly disposed. Sand tubes, T-posts, stakes, bottom plates, angled top brackets and pins in good working condition can be reused on future installations.

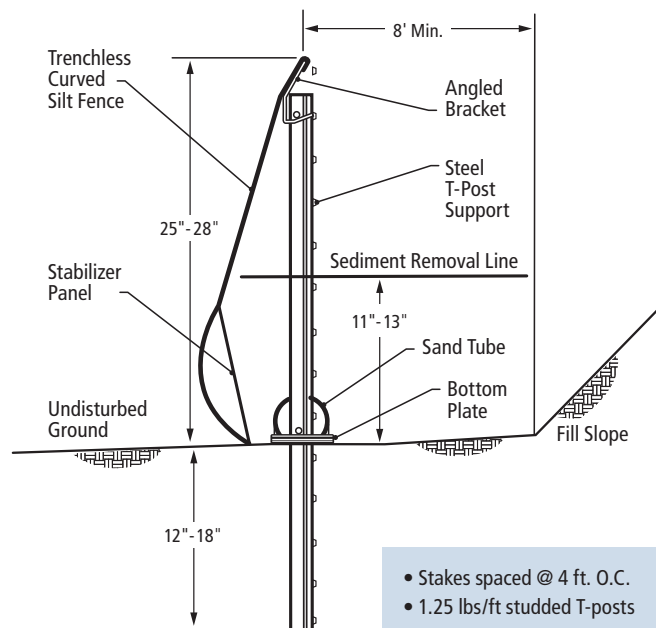
SEDIMENT BARRIER ALIGNMENT

Plan View



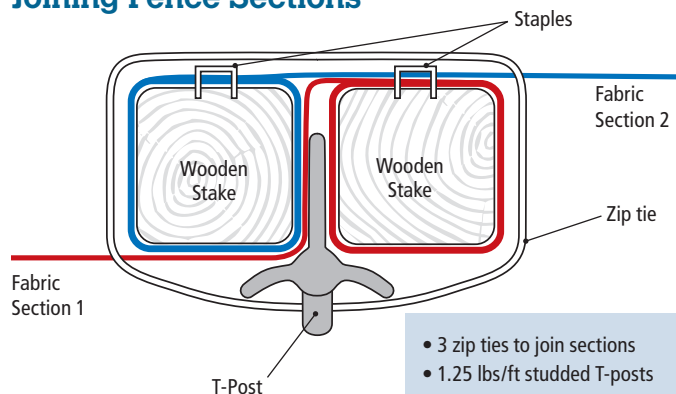
NOTE: T-posts are positioned on the fill slope side (see below)

Elevation View



- Stakes spaced @ 4 ft. O.C.
- 1.25 lbs/ft studded T-posts

Joining Fence Sections



- 3 zip ties to join sections
- 1.25 lbs/ft studded T-posts

Product Data & Comparison

Engineered and manufactured to the highest standard in Tipton, PA.

The PIG Trenchless Curved Silt Fence overcomes the disadvantages of traditional silt fences and compost socks with a patent-pending design that includes the best features of both.

The “curved” fence is modeled after the onion tanks from World War II fueling and water storage depots. This self-supporting design increases tipping stability compared to a vertical wall.

New Pig’s ground-hugging sock technology anchors the base of the fence with a sand tube encased by a hydrophobic outer scrim laminated to a polypropylene woven layer. The outside scrim keeps the sand tube from absorbing water, so it resists water logging and freezing, both while in storage and in use. The woven layer provides durability and resistance to drops, punctures and tears, similar to sand bags.

Product Data

| Product Data | | | | | | | | |
|------------------------------|----------------------|--------------------|-----|-------------|-----|---------|-----|-------------------|
| Property | Test Method | English Units | | | | | | |
| | Modified for Two-Ply | Average Roll Value | | | | Typical | | |
| | | Gray Layer | | Black Layer | | Two-Ply | | Units |
| | | MD | CD | MD | CD | MD | CD | |
| Grab Tensile Strength | ASTM D-4632 | 160 | 149 | 167 | 132 | 335 | 245 | lbs |
| Grab Tensile Elongation | ASTM D-4632 | 22 | 15 | 23 | 20 | 24 | 11 | % |
| Trapezoid Tear | ASTM D-4633 | 76 | 77 | 70 | 81 | 139 | 123 | lbs |
| Mullen Burst | ASTM D-3786 | 344 | | 315 | | 625 | | lbs |
| Puncture | ASTM D-4833 | 84 | | 104 | | 195 | | lbs |
| A.O.S. | ASTM D-4751 | 30 | | 30 | | 50 | | U.S. Sieve |
| Permittivity | ASTM D-4491 | 0.431 | | 0.264 | | 0.18 | | sec ⁻¹ |
| Water Flow Rate | ASTM D-4491 | 32.4 | | 16.4 | | 13.5 | | gal/min/ft² |
| UV Resistance (500 hrs) | ASTM D-4355 | 70 | | 80 | | 97 | | % |
| Slurry Flow Rate | ASTM 5141 | | | | | 0.464 | | gal/min/ft² |
| Filtering Efficiency | ASTM 5141 | | | | | 96.3 | | % |
| Soil Retention Effectiveness | ASTM D-7351 | | | | | 94.26 | | % |
| Seepage Effectiveness | ASTM D-7351 | | | | | 91.07 | | % |

Product Comparison

| Property | PIG Trenchless Curved Silt-Fence | | Traditional Silt-Fence | | | Compost Sock | | |
|---|----------------------------------|-------------------|------------------------|------------|--------------|--------------|---------|---------|
| | 8-foot Spacing | 4-foot Spacing | Standard | Reinforced | Super Silt | | | |
| Fabric Width (in) | 36 | 39 | 30 | 42 | 42 | | | |
| Design Height Above Grade (in) ¹ | 25, 36 Fabric | 28, 39 Fabric | 18 | 30 | 33 | 18 | 24 | 32 |
| Effective Height (in) ² | 22, 30 Fabric | 25, 33 Fabric | 15 | 27 | 33 | 15 | 19 | 26 |
| Maintenance Height (in) | 11 | 11 | 7.5 | 13.5 | 16.5 | 7.5 | 9.5 | 13 |
| Maximum Slope Length (<2% grade) | 500 | 1000 | 150 | 500 | 1000 | 1000 | 1300 | 1650 |
| Maximum Slope Length (50% grade) | 25 | 50 | 10 | 25 | 50 | 55 | 65 | 75 |
| Trenchless Installation | ✓ | ✓ | | | | ✓ | ✓ | ✓ |
| Reusable Hardware | ✓ | ✓ | | | | | | |
| Section Packaging | ✓ | ✓ | ✓ | ✓ | | | | |
| Section Lengths (ft) | 56 | 56 | 100 | 100 | 50 Chainlink | 45 | | |
| Sections Per Pallet | 6 | 6 | 25 | 25 | 6 | 1 | | |
| Length Per Pallet (ft) | 336 | 336 | 2500 | 2500 | 300 | 45 | | |
| Pallet Weight (lbs) | 1440 | 1680 | 650 | 900 | 775 | 1500 | | |
| Stakes Per Pallet | 48 | 90 | 275 to 425 | 275 to 425 | 31 | 5 | | |
| Stake Spacing (ft) | 8 | 4 | 8 | 8 | 10 | 10 | 8 to 10 | 8 to 10 |
| Stake Type | Rail Steel T-Post | Rail Steel T-Post | Wooden | Wooden | Galvanized | Wooden | Wooden | Wooden |
| Dry Weight (lbs/ft) | 4.3 | 5 | 0.26 | 0.45 | 2.6 | 28 | 45 | 80 |
| Dry Disposal Weight (lbs/ft) | 0.5 | 0.5 | 0.26 | 0.45 | 2.6 | 28 | 45 | 80 |

¹ After settling, sagging and trenching losses, Keener et al, 2006

² 50% of effective height, Filtrex® TechLink Research Summary #3311

Tipping Stability Comparison

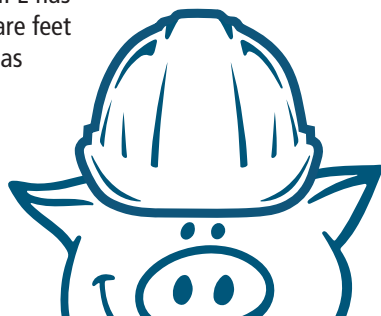
| Traditional Silt Fence | | | Trenchless Curved Silt Fence | | | |
|-------------------------|----------------------|------------------------------|------------------------------|----------------------|------------------------------|-----------------------|
| Ponding Height (inches) | Stake Spacing (feet) | Tipping Force (pounds-force) | Ponding Height (inches) | Stake Spacing (feet) | Tipping Force (pounds-force) | Greater Stability (%) |
| 15 | 8 | 162 | 15 | 8 | 65 | 149% |
| 18 | 8 | 281 | 18 | 8 | 165 | 70% |
| 21 | 8 | 446 | 21 | 8 | 311 | 43% |
| 24 | 8 | 666 | 24 | 8 | 511 | 30% |
| 27 | 8 | 948 | 22 | 8 | 358 | 165% |
| 30 | 8 | 1300 | 25 | 8 | 598 | 117% |
| Super Silt Fence | | | Trenchless Curved Silt Fence | | | |
| Ponding Height (inches) | Stake Spacing (feet) | Tipping Force (pounds-force) | Ponding Height (inches) | Stake Spacing (feet) | Tipping Force (pounds-force) | Greater Stability (%) |
| 30 | 10 | 1625 | 25 | 4 | 299 | 443% |
| 33 | 10 | 2163 | 28 | 4 | 451 | 380% |



Self-supporting onion tank design provides **at least 380% more tipping stability** compared to super silt fence.

Who is New Pig Energy?

New Pig Energy (NPE) is a subsidiary of New Pig Corporation, the world leader in industrial absorbents and liquid management since 1985. NPE has been operating since 2011, specializing in durable, composite liners for multi-operation use with certified high-traction work surfaces. NPE has installed over 116 million square feet of product to help the Oil & Gas Industry protect their workers and the environment.



New Pig Energy
*Secondary Containment
 from the Leak & Spill Experts.®*

Phone: 1-855-PIG-LINER (744-5463)
Email: pigliner@newpigenergy.com
Online: newpigenergy.com

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