



# Silt Fence

## Perimeter sediment control

Silt fence barriers are a temporary sediment control device used on job sites as part of a Stormwater Pollution Prevention Plan (SWPPP). GEI Works silt fences are constructed from various weights of synthetic fabric, with or without reinforcement, and stretched between wooden stakes.



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# Silt Fence

## Perimeter sediment control

GEI Works silt fencing is built from 100% synthetic fibers and is available in multiple strengths. Fencing is available as fabric rolls with or without pre-attached stakes. Stakes and metal posts are available as add-on items.

### Options

- Economy Grade - 50 gram fabric available in rolls of 3' by 100' with 11, 13, or 17 stakes. Fabric only rolls are 3' by 1500'.
- Contractor Grade - 70 gram fabric. Rolls of 3' by 100' with 11, 13, or 17 stakes. Fabric only rolls are 3' by 1500'.
- DOT Grade - 100 gram fabric. Rolls 3' by 100' with 11, 13, or 17 stakes. Fabric only rolls 3' by 1500'.

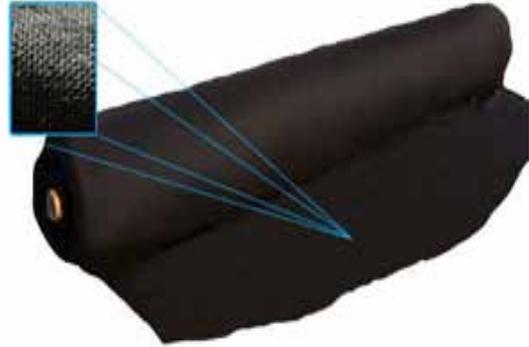
\*Minimum of 25 rolls per order (1 pallet).

### Usage

For use on job sites with small drainage areas. Runoff can be a low-level shallow flow but shouldn't exceed 0.5 cfs. Drainage area should not exceed more than 1/4 acre per 100 ft. of fence length. Slope length above the silt fence should not be more than 100 ft. (NAHB, 1995) as this can have a negative impact on performance.

### Life Expectancy

Approximately 6 months depending on site conditions. Fabric can be reinforced with wire mesh for increased durability.



# Silt Fence

## Installation & Maintenance



### Installation and Placement

Fence post height should be 16 to 34 inches above grade. If standard strength fabric is used in combination with wire mesh, the support posts should be spaced no more than 10 ft. apart. If DOT-grade fabric is used without wire mesh, the posts should be spaced no more than 6 ft. apart.

There should be no gaps in the fence. If a continuous roll is not available, the fabric should overlap from both directions only at stakes or posts with a minimum overlap of 6", then rolled for durability. A trench should be excavated to backfill the bottom of the fabric fence at least 6" below ground surface to minimize entrainment of stormwater runoff.

### Wooden Stakes

If oak is used, stakes should be at least 5 ft. long and have a minimum diameter of 2 inches. Softer woods like pine should be at least 4 in. diameter.

### Metal Post

When using metal posts instead of wooden stakes, use a minimum weight of 1.00 to 1.33 lb/linear ft. Metal posts require attachment points like hog rings for fastening the filter fabric using wire ties.

### Maintenance

Silt fence should be inspected at regular intervals, as well as after each rain event. If gaps or tears are found, they should be repaired or replaced immediately.

### Sediment Removal

Sediment should be removed from the fence when it reaches 1/3 to 1/2 the height of the fence. Remove sediment more frequently if it is causing noticeable strain on the fabric. When the silt fence is removed, accumulated sediment should also be removed.



# Silt Fence Specifications

## Silt Fence with Stakes Specifications

Model	Fabric	Size	# of Stakes	Qty/Pallet
Economy-11 Stakes	Economy	100' x 3'	11	25
Economy-13 Stakes	Economy	100' x 3'	13	25
Economy-17 Stakes	Economy	100' x 3'	17	25
Contractor-11 Stakes	Contractor	100' x 3'	11	25
Contractor-13 Stakes	Contractor	100' x 3'	13	25
Contractor-17 Stakes	Contractor	100' x 3'	17	25
DOT-11 Stakes	DOT	100' x 3'	11	25
DOT-13 Stakes	DOT	100' x 3'	13	25
DOT-17 Stakes	DOT	100' x 3'	17	25

\*Available in minimum quantities of 25 rolls (1 pallet) per order.

## Silt Fence Fabric Rolls Specifications (without stakes)

Model	Fabric	Size	Qty/Pallet
Economy	Economy	1500' x 3'	12
Contractor	Contractor	1500' x 3'	12
DOT	DOT	1500' x 3'	12

## Fabric Specifications

Property	ASTM Test Method	Economy 50 Gram	Contractor 70 Gram	DOT 100 Gram
Weave	n/a	8x8	11x11	11x11
Grab Tensile Strength	ASTM D4632	68 lbs	98.8 lbs	135 lbs
Grab Elongation	ASTM D4632	14%	27%	15%
Mullen Burst	ASTM D3786	230 psi	205 psi	200 psi
Puncture Resistance	ASTM D4833	52 lbs	50 lbs	50 lbs
Trapezoidal Tear	ASTM D4533	47 lbs	52 lbs	60 lbs
Apparent Opening Size	ASTM D 4751	10 sieve	40 sieve	30 sieve
Flow Rate	ASTM D4491	30 gal/min/ft	24.2 gal/min/ft	20 gal/min/ft
Permittivity	ASTM D4491	0.03 sec	0.05 sec	0.1 sec
UV Resistance	ASTM D4355	80%/500 Hrs	80%/500 Hrs	80%/500 Hrs

For more complete information on GEI Works products and solutions, visit us on the Web at [www.geiworks.com](http://www.geiworks.com).

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