



## SANDBAGS FOR FLOOD CONTROL

The Garrison™ Sandbag is a 14" x 26" sandbag that is designed for use in flood control, force protection, and ballast applications.

Our bags are manufactured using a heavy duty 6mm thick, 10x10 thread, Polypropylene fabric that incorporates a 2.5%, 1600 hour UV protection.

Each bag is stitched at the bottom for durability and strength. All Garrison bags incorporate tie strings.

- ▶ **Flood Control:** Garrison bags are ideal for flood control applications such as doorway protection, levee and berm construction, sewer and drain protection, and all types of water retention applications.
- ▶ **Erosion Control:** Bags may be used for erosion control and other longer term applications.
- ▶ **Force Protection:** Garrison bags are suited for force protection and military applications.
- ▶ **Earthbag Homes:** Our high quality sandbags may be used for earthbag home construction.
- ▶ **Ballast & Weighting:** Hold down traffic signs, temporary fences, tarps and other flood control barriers using our weighted sandbags.



### Use for All Types of Flood Control Needs

Garrison Sandbags are suited for all types of flood control needs. From water redirection and holding back rising waters to water retention, our sandbags are an economical option for flood prevention.



### Durable Construction with Integrated Tie Strings

All Garrison Sandbags are manufactured using 6mm thick, 10 x 10 weave fabric with 1600 Hour UV Protection. All sandbags are double stitched at the bottom and incorporate integrated tie strings.



### Stores Flat When Empty

The Garrison Sandbag comes stored flat for easy storage and transport. Simply bring a box or pallet of Garrison Sandbags on-site for fill and deployment by staff or volunteers. We ship in various sized packs, from 10 sandbags to 5,000 sandbags per pallet.



### Use Together with Other Garrison Products

Use Garrison Sandbags in conjunction with other Garrison flood control products such as Mayim, Beluga and Serpent to help fill gaps, prevent seepage, and to provide additional ballast.

*\*Garrison Bags are standard in size and will weigh 35-40lbs. when full.*



## Specifications

The Garrison™ Sandbag is a 14" x 26" sandbag that is designed for use in flood control, force protection, and ballast applications. Each bag is stitched at the bottom for durability and strength. All Garrison bags incorporate tie strings.

- ▶ **Material:** The Garrison Sandbag is manufactured using high-quality 6mm thick, Polypropylene material with a 10x10 weave and incorporates a 2.5%, 1600 UV protection.
- ▶ **Fill/Installation Time:** Two people, using one shovel, can typically fill and tie off between 12-15 sandbags per hour. Mechanical filling machines can typically fill approximately 5,000 bags per hour.
- ▶ **Color:** White

## Sandbags For Wall Construction

Installation time is dependent on the size and length of the wall or barrier being created. It typically takes 600 bags to build a 100ft wall that is 1ft tall (using a base width of 2-3 sandbags).

Depending on the strength of wall needed, you can build walls using a base that is 2x or 3x the height desired. So a 2ft high wall at 100ft long, would require 2100 sandbags at 3x the height and 1700 sandbags at 2x the height.

### GSB1 (Standard Garrison Sandbag)

- ▶ Traditional Sandbag Shape
- ▶ 26"L x 14"W x 4"H (when filled)
- ▶ Weight when filled to suggested capacity: 35-40lbs. / 60-75lbs. (when full)



*We recommend filling bags partially, rather than overfilling to capacity, to prevent gaps that will allow seepage.*

## Number of Sandbags Needed

Get a sense in advance of how long and how tall of a dike you may need to build.

We recommend having enough sandbags and a source of sand readily available in advance of any flood situation or to respond to flood emergencies.

### Wall w/ Base 2x Height

- ▶ 1. ft Tall
- ▶ 2. ft Tall
- ▶ 3. ft Tall
- ▶ 4. ft Tall

### Number of Sandbags

- ▶ 600
- ▶ 1700
- ▶ 3000
- ▶ 5500

### Wall w/ Base 3x Height

- ▶ 1. ft Tall
- ▶ 2. ft Tall
- ▶ 3. ft Tall
- ▶ 4. ft Tall

### Number of Sandbags

- ▶ 600
- ▶ 2100
- ▶ 4500
- ▶ 7800

## Amount of Sand/Fill Needed

1 cubic yard of sand will fill approx. 100 - 14" x 26" sandbags. We recommend filling to a weight of 30lbs. each, which is about 1/2 to 2/3 full, to allow some flexibility and prevent seepage or leakage due to gaps between bags.

### Wall w/ Base 2x Height

- ▶ 1. ft Tall
- ▶ 2. ft Tall
- ▶ 3. ft Tall
- ▶ 4. ft Tall
- ▶ 5. ft Tall

### Cubic Yards of Sand

- ▶ 6
- ▶ 18
- ▶ 38
- ▶ 65
- ▶ 100

### Wall w/ Base 3x Height

- ▶ 1. ft Tall
- ▶ 2. ft Tall
- ▶ 3. ft Tall
- ▶ 4. ft Tall
- ▶ 5. ft Tall

### Cubic Yards of Sand

- ▶ 7
- ▶ 25
- ▶ 54
- ▶ 95
- ▶ 145

*The above chart calculates the estimated number of sandbags and sand needed for 100 linear feet of dike. Each sandbag will hold about 0.4 cubic feet of sand when filled to the recommended amount.*