



The Serpent™ Inflatable Flood Control Tube is an inflatable flood control system that deploys quickly and provides flood protection for up to 3ft in height. Each flood control tube incorporates an inflation valve that allows inflation of a 15ft or 30ft length of tube in 12-18 minutes.

Individual inflated sections can be placed side by side and fastened together using the Velcro Tube Connector Sheet, to prevent water seepage and to create a contiguous flood control barrier.

**Product Material Specifications**

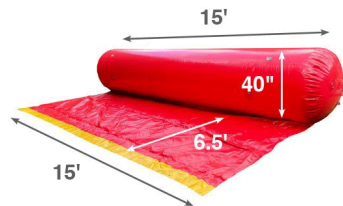
- **Material:** Composite PVC Mesh
- **Material Thickness:** 0.9mm +/- 0.02%
- **Construction:** Whole Thermal Bond Molding
- **Fire Resistance:** EN13501-B1
- **Usage Temperature:** -22°F to 158°F

The Serpent™ Inflatable Flood Control Tube is manufactured using high-quality composite PVC mesh material that is 0.9mm +/- 0.02% thick.

Material is UV treated, anti-static, waterproof, and chemical and oil resistant. Each tube has incredible tear and tension strength.

**Serpent™ Inflatable Flood Tube - 15FT**

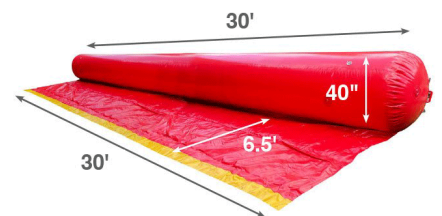
**ST-1 Serpent Flood Tube (Small)**



- **Main Tube:** 15ft L x 40" D
- **Skirt (extends tube on water side):** 6.5ft L x 15ft D
- **Weight:** 60lbs. +/- 5%

**Serpent™ Inflatable Flood Tube - 30FT**

**ST-2 Serpent Flood Tube (Large)**



- **Main Tube:** 30ft L x 40" D
- **Skirt (extends tube on water side):** 30ft L x 6.5ft D
- **Weight:** 115lbs. +/- 5%

**Accessories Included:**

- 2 Pieces of Rope
- 6 Staking Nails
- 1 Velcro Tube Connector Sheet
- 2 Puncture Repair Patches
- 1 Transport Bag
- 1 Inflation Pump



## Protect and Prevent Flooding Uses

- Residential & Commercial Property
- Educational Buildings & Facilities
- City Municipalities & Public Works
- Streets, Highways & Roadways
- Stairwells & Access Locations
- Metro & Transit Stations
- Factories & Storage Warehouses
- Electrical Equipment & Power Plants
- Underground Parking Garages & Lots
- National Parks & Parklands



## How Serpent™ Works

### 1) Pressure Creates Support

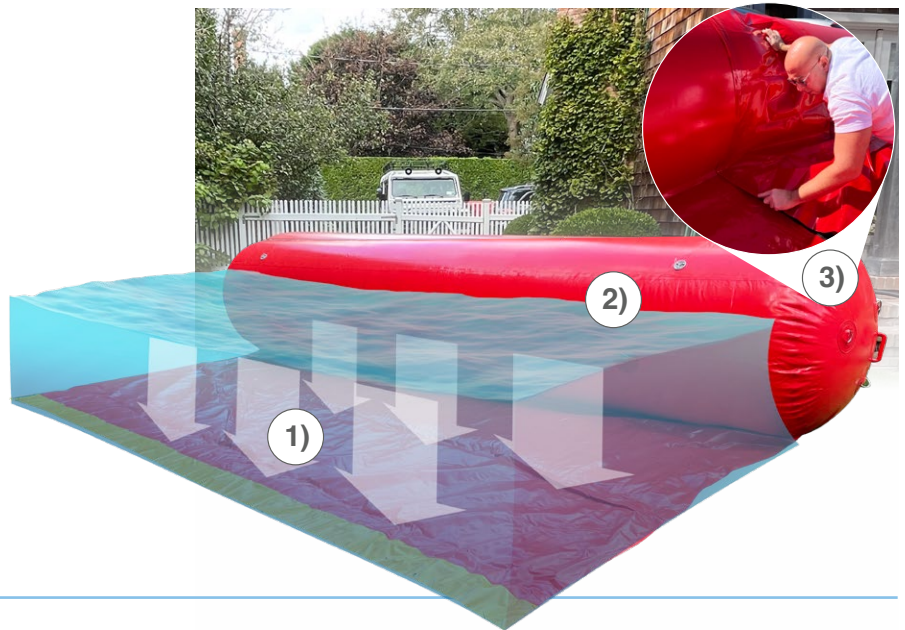
Flowing water over the skirt of the Serpent™ will create pressure, keeping the Serpent™ positioned securely when protecting against flooding.

### 2) Damming Ability

We recommend damming to within 2" of the top height of the barrier, such that each 40" tall barrier is suitable to protect against floods of roughly 38".

### 3) Ability to Connect

Serpent™ tubes can be fastened together using the velcro tube connector sheet for added protection length.



## How Many Serpent™ Inflatable Tubes do I need?

The Serpent Inflatable Flood Control Tube is like a berm and comes in 30ft and 15ft long sections.

If you need a 100ft run, you will want to purchase three of the 30ft Serpent Tubes and one of the 15ft Serpent Tubes, providing you with 105ft of flood coverage and prevention.

In most scenarios, there is some flexibility on the length of protection, particularly for perimeter protection and flood water diversion.

However, if you are limited in space (ex. the opening you are protecting is exactly 100ft), you may want to angle the tubes in an arc shape, to fit opening sites while still providing edge-to-edge coverage.

**100ft Long Barrier** → **3x 30ft Tubes of ST-2 and 1x, 15ft Tubes of ST-1**  
(provides 105ft of flood protection)

## Deployment | Installation | Storage

Serpent Inflatable Tube Barriers are designed to deploy quickly. Two people could position and roll out each tube for inflation.

Tubes can be inflated in 12-18 minutes at 6psi using a standard electric pump (electric (AC), or car lighter powered (DC)).

\*Each Serpent includes an inflation pump.

Serpent tubes can be anchored to the ground surface, using integrated tie down loops and stakes positioned on each tube, and the skirting. Once inflated, it takes 10 minutes to position and install the splicing sheets, to seal the space between tubes creating longer barriers.

To deflate, use the reverse setting on the air pump. Once deflated, Serpent tubes store compactly on a pallet, remotely or onsite; ideal for rapid emergency response.



Unroll Serpent Inflatable Tube Barrier



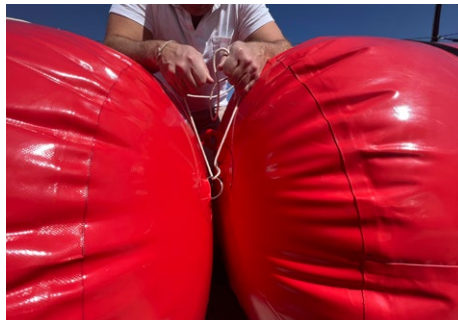
Inflate Flood Tube (unscrew valve cap to expose inflation)



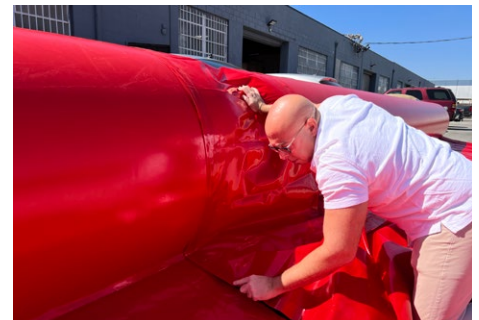
Attach Staking Rope (optional)



Staking Attach Staking Ropes Down The Skirting



Securing Tubes to Each Other



Attaching the Tube Connector Sheets (to prevent seepage)

## Shipping Quantity Details

### Serpent™ Inflatable Flood Barrier (ST-1)

- **Standard Height Pallet:**  
48"L x 40"W x 81"H  
- Holds 5 tubes ST-1 / 340lbs.

### Serpent™ Inflatable Flood Barrier (ST-2)

- **Standard Height Pallet:**  
48"L x 40"W x 66"H  
- Holds 3 tubes ST-2 / 385lbs.

**GARRISON**  
FLOOD CONTROL

For Additional Help or Support -  
Contact [sales@garrisonflood.com](mailto:sales@garrisonflood.com)  
(929) 299-2099 | [www.garrisonflood.com](http://www.garrisonflood.com)

