



The Beluga™ Oversized Flood Bag Barrier is a unique flood control system that is ideal for protection of important property and infrastructure. Beluga™ is a concertina style large flood bag system, consisting of integrated heavy-duty material ready to receive sand or other fill material.

Each individual compartment is incredibly strong and can hold over 5,000lbs. of fill. Each BG5 bag is 15ft long, 3ft deep, and 40" high and replaces approximately 750 standard sandbags.

Beluga™ Barriers use roughly 1/2 the amount of sand required for an equivalent sandbag barrier and significantly less labor to position and fill.

Beluga™ Barriers are ground conforming, and when filled follow the contour of the ground below. Beluga™ bags can be used on all types of surfaces - concrete, asphalt, sand, grass, mud, and more.

**Product Material Specifications**

- **Material:** Constructed using a durable 5.6oz, coated (impermeable) polypropylene fabric on 1 side, and an uncoated 5.0 oz (water permeable) fabric on the other sides (allowing slow water drainage)
- **Fabric:** 170 GSM Fabric / RIC Code 5 / SIP Code PP / 100% Polypropylene
- **Classification:** NAICS Code 314910
- **Properties:** 2200 Hour UV Protection
- **Bag Capacity:** Seams are double-stitched for added strength & durability. Bags have a capacity of 30 cubic-feet of sand (filled to the top) per section x 5 sections = 150 cubic feet of sand per 5-compartment bag.
  - 4,500lbs. Safe Working Load Weight Per Bag
  - 22,500lbs. Safe Working Load Weight Per BG5 Bag

**Beluga™ Single Bag**



**BG1 (Beluga™ Single Bag)**

- **Bag Barrier:** 3ft L x 3ft W x 40" H
- **Includes:** (4) 2" x 10" Heavy Duty Lifting Straps
- **Empty Weight:** Up to 10lbs.
- **Filled Weight:** Approx. 2,630lbs. (dry sand)

**Beluga™ 5-Compartment Bag**



**BG5 (Beluga™ 5-Compartment Bag)**

- **Bag Barrier:** 15ft L x 3ft W x 40" H
- **Includes:** (20) 2" x 10" Heavy Duty Lifting Straps
- **Empty Weight:** 50lbs.
- **Filled Weight:** Approx. 13,150lbs. (dry sand)

## Protect and Prevent Flooding Uses

- Perimeter & Cofferdam Protection
- Water & Stream Diversion
- Levee Height Extension
- Coastline Erosion
- Storm Surge Protection
- River & Creek Containment
- Blast Protection & Military Installations
- Sewer Drain Seal-Off



## Deployment | Transport | Storage

Beluga™ large sand-filled flood bag barriers are designed to be deployed by unskilled personnel. Each complete 5-Compartment Barrier weighs 50lbs, allowing two people to move sections into position and to expand the accordion compartments for filling. Single Barriers (BG1) are 10lbs.

Filling typically is done with material handling equipment.

- Each fully loaded Single Beluga™ Bag (BG1) weighs roughly 3,000lbs, depending on fill material.
- Each fully loaded 5-Compartment Beluga™ Bag (BG5) weighs roughly 13,000lbs, depending on fill material.

When full, Beluga™ bags can be moved using traditional material handling equipment (forklifts, cranes, Lull's, etc.), or using a heavy-duty spreader bar, for lifting a full 5-Compartment Barrier (BG5). With proper handling and fill equipment, a 100ft berm can be constructed using the Beluga™ 5-Compartment Bag Barrier (BG5) in approximately 2.5 hours with 2 people, plus equipment operator.

## Stacking Bags for Added Height

We recommend stacking in a pyramidal shape, staggering bag seams to provide additional strength. Always have a local engineer review plans prior stacking barriers higher than 6ft, to ensure structural integrity, based on the local conditions.

*\*We do not recommend stacking bags more than 3-4 layers high, or roughly 15ft.*

## Beluga™ Bags Damming Ability

A single layer of sand filled Beluga™ Barrier can withstand 3ft water surges. Multiple Beluga™ bags can be stacked in a pyramidal shape to create a barrier roughly 9ft high. Engineer sign-off is required for multi-layered (stacked) or coffer-dam style designs.

*\*Note: Closed top versions are available, on special order, for underwater applications.*

## Shipping Quantity Details

### Beluga™ Single Barrier (BG1)

- Standard Height Pallet: 48"L x 40"W x 50"H
  - Holds 400 pieces of BG1 / 1,280lbs.

### Beluga™ 5-CompartmentBarrier (BG5)

- Standard Height Pallet: 48"L x 40"W x 50"H
  - Holds 80 pieces of BG5 / 1,185lbs.

**GARRISON**  
FLOOD CONTROL

For Additional Help or Support -  
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