BELUGA
CONCERTINA FLOOD PREVENTION SYSTEM

Large Sand Filled Barrier Bags For Flood Control

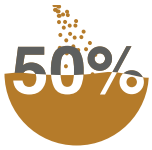
A concertina style big bag system that is ideal for protection of important property and infrastructure

www.garrisonflood.com

Installs More Quickly

Beluga™ Bags install more quickly than traditional sandbags, because they can be placed and expanded quickly and filled in bulk versus small sandbags which must be filled and tied individually, bag by bag. This means that standard material handling equipment can be used to transport and fill Beluga's with sand.

Uses Less Sand

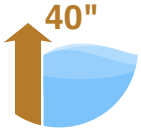


Beluga™ Barriers use approximately 50% less sand, because they provide the ability to gain height, without the need for a widened base that is 2x the height for typical sand bags stacked to 40" (the Beluga™ bag's height). Beluga also eliminates dead space associated with stacked sandbags.

Requires Less Labor

5 Beluga™ Bags replace roughly 750 sandbags and fill in bulk in about 15 minutes, there is significantly less labor, time and work to create an equivalent height and strength flood barrier. Two people can fill 15 traditional sandbags per hour. That's 50 hours to build an equivalent Beluga™ dike from traditional sandbags.

Protection Height



Beluga™ barriers achieve 40" of heavy duty flood protection height when filled and can be stacked to a 9ft high barrier for even greater protection.

The Beluga™ Bag Barrier is a unique flood control system that is ideal for protection of important property and infrastructure.

The Beluga™ bag barrier is a concertina style big bag system, consisting of an integrated heavy duty bag, divided into 5 distinct chambers (BG5), ready to receive sand or other aggregate or fill material.

Each individual compartment is incredibly strong and can hold over 5,000 lbs. of fill.

Beluga™ Bags ship flat on pallets, ready to be opened, positioned and filled. Beluga Bag Barriers use roughly 1/2 the amount of sand required for an equivalent sandbag barrier and significantly less labor to position and fill.

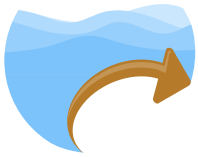
Each Single Bag (BG1) is 3ft long, 3ft deep and 40" high and replaces approximately 150 standard sandbags. Each 5-Compartment Bag (BG5) is 15ft long, 3ft deep, and 40" high and replaces approximately 750 standard sandbags.

Beluga™ Bag Barriers can be installed and fulfilled by a small crew. When full, Beluga bags can be moved using traditional material handling equipment, or using a heavy duty spreader bar, for lifting a full 5-compartment version (BG5).

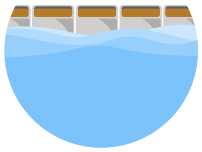
Be Protected Against a Flood Disaster

Beluga™ big bag flood protection barriers can rapidly deploy against major flooding events. Beluga™ FIBC bags can be used for a variety of applications and can help in the protection of municipal buildings, homes, entire neighborhoods, infrastructure and more. Use Beluga™ bags along riverfront paths, lakefronts, oceanfront sea walls, on bays, around a building or facility and anywhere floods can occur.

Beluga™ Bags are exceptionally effective for the following uses:

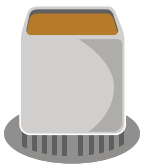


Water Diversion
Use Beluga™ barriers to divert water away from sensitive infrastructure and to protect property from rising flood waters.

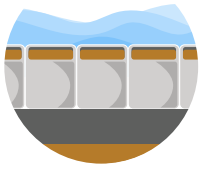


Cofferdams
Keep water contained in a particular area by blocking its flow and preventing its migration to other areas.

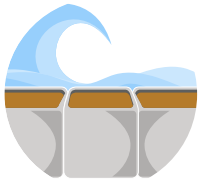
Coastal Erosion
Use Beluga™ bags, filled with sand or cement, to protect against coastal erosion. Efficiently deploy bags, without extensive site prep. Reinforce waterfronts, river fronts, and other erosion prone areas.



Sewer Drain Sealing
Place oversized Beluga™ bags on top of sewer drains and outlets to prevent sewage back flow from sewer back ups or rising flood water levels.



Levee Heightening
Reinforce and heighten levees by adding Beluga™ barriers on top of existing levees. Fill gaps in the levee or repair breaches.



Storm Surge Protection
Beluga™ stands up against heavy storm surges. The bag's heavy fill and 40" protection height keeps Beluga™ Bags in place and stops flood waters in its tracks.

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-compartent bag.
  - 4,500lbs. Safe Working Load Weight Per Bag
  - 22,500lbs. Safe Working Load Weight Per BG5 Bag

BG1 (Beluga™ Single Bag)

	Description	Size	Empty Weight	Filled Weight	Includes
BG1	Single Bag	3ft L x 3ft W x 40" H	2.5 lbs	2,630 lbs	4 Lifting Straps
BG5	5 Compartment Bag	15ft L x 3ft W x 40" H	12 lbs	13,150 lbs	20 Lifting Straps

- We recommend designing your system around the BG5 bag (shown right) and supplementing with BG1 as needed.
- BG1 is also great for use as a super sack for bulk materials, or FIBC bag.
- Each Bag section includes 4ea. 2” x 10” double loop lifting straps for simple transport, or 20 lifting straps per 5-compartment bag (BG5).


BG5 (Beluga™ 5-Compartment Bag)

GARRISON FLOOD CONTROL

For Additional Help or Support -
Contact sales@garrisonflood.com
(929) 299-2099 | www.garrisonflood.com