

Military Defense Walls

- In a military environment, it is imperative to have easy access to a rapid response system.
- The Big Bag System is the fastest means of deployment in the world today. The system itself has a robust polypropylene bottom within each cell and four lifting straps attached also.
- As height is of the utmost importance in the construction of security and blast walls, there is no other system in the world where numerous systems can be filled at ground level with the view to being moved while full. The systems can then be lifted up due to its vigorously tested lifting capabilities (sil safety factor) and placed at any height into position.
- Due to the fact that it can be lifted into position when full and that it can be removed again while full and transported to another location, it is by far the most superior system in the world. It can serve any military organisations needs in relation to constructing military shelters, camps, hospitals, perimeter security and blast walls.
- Major Advantages of the Big Bag System.

- > Speed – 1,000 metres /1,100 yards can be deployed in less than three hours by only two people and one machine required to fill same.
- > Flexibility: The flexibility of The Big Bag System means it can follow the natural contour of any ground conditions which enhances the utmost effectiveness of the Big Bag System.
- > Safe: Due to its robust polypropylene material, it has a high stability factor and does not rupture easily .
- > Ease of Filling: The Big Bag System will stand up freely without any assistance, therefore minimising labour resources required during the filling process and reducing risk in terms of Health and Safety.
- > Stacking: The Big Bag System can be stacked two bags high singly and to any height thereafter if stacked in pyramid style.
- > Clean Up Operations: The “Big Bag System” has a bottom and lifting straps on each individual bag within the system. These both play a vital role with Emergency Management in the procurement process as its lifting capabilities i.e. 5:1 safety factor, enables a safe lift on to a flatbed truck for transportation off site.
- > Easily Stored: The concertina design means that The Big Bag System can be folded and easily stored. One system extends to 4.5 metres and six systems can be stored on one pallet, allowing one pallet to hold 27 linear meters (30 yards). Due to the light weight of the systems, the pallets can be stacked 3 high.

Noise Control Barrier

- Noise Pollution is one of the most irritating hazards in the world today. There are many global environmental noise sources, such as highways, railroads and aircraft. This invisible pollutant of environmental noise can be easily subdued by using The Big Bag System. The Big Bag System is hugely cost effective in comparison to other acoustic barriers.
- Where there is major noise pollution in vicinities of heavy civil engineering projects, The Big Bag System can be deployed around the perimeter of the works and can also be easily removed on completion of the works.
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Traffic Safety Barrier

- The Big Bag System is ideal for major roadwork construction. It is particularly apt for use in the retainment of embankments and keeping surface water from entering road cuttings.
- Once again, with its multiple use applications, it can also play the role of a traffic safety barrier, particularly where you are required to close off certain lanes to enable works to continue and to protect workers in other lanes.
- The system can be quickly rolled out by the mile (or kilometre) to help provide a safe crash barrier the entire length of dividing lanes on motorway construction. Due to its great lifting capabilities while full, it can be quickly and easily transported from one location to another.
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Oil Spill Containment

- When there has been a major oil spill disaster, it is important to quickly source a rapid response system such as The Big Bag System. Due to its concertina concept it can be quickly rolled out to adhere to any ground surface and with its polypropylene sealant on one side and maximum square abutment at the joints, it is capable of holding back contaminated spills along the shore or river lines where there has been an oil spill disaster within the oncoming water.
- Where flood waters have become contaminated with oil, it is necessary to contain that water. In these circumstances a major advantage of
- The Big Bag System is the fact that it can be deployed directly into contaminated waters.
- Tanks of any size can be created (hectares if needs be), the contaminated water can then be pumped into tankers for removal. Further contaminated water can be pumped into the same or other containment tanks constructed by the Big Bag System and once again transported and disposed safely offsite.
- The Big Bag System allows for a safe controlled Emergency Management Plan to be implemented easily in any large or small scale oil spill disaster.
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Emergency Wall Supply Tanks (EWS)

- If a very large holding tank is required for water in the event of an emergency, or a number of different shapes and sizes of tanks are required to be located strategically throughout a region, then by using The Big Bag System tanks of any shape or size can be constructed for containment of large volumes of water. This could be facilitated with an appropriate liner to go inside the confines of the holding walls and covered with a suitable membrane when filled with water.
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Support Wall / Gravity Feed Tanks

- In regions where water supply feeds are scarce, it is often necessary to store water in tanks at extreme heights so as to obtain a gravity feed into a nearby town, village or camp.
- Where emergency water supply is required, it is often necessary to quickly and affordably build high structures to support large tanks containing large volumes of water. The Big Bag System can be stacked very rapidly and is a fast, safe and economical means of building such structures.
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Shelters / Camps

- The uniqueness of the “Big Bag System” is its multiple applications. Therefore, in regions that have been affected badly by the devastation of storms, flooding, mudslides or earthquakes, this rapid response system is a fast and easy way to create the walls of shelters for housing, medical centres and schools providing a stable and extremely affordable structure to give a safe environment to those affected by natural disasters.
- To prevent reoccurrences of such events, protective perimeter walls can also be easily constructed to form a safe boundary around all types of shelters to effectively create safe temporary and permanent type camps.
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Raising Areas Of Existing Ground

- The Big Bag System is the most simple and affordable means of constructing a retaining wall around the perimeter of an area of ground that needs to be raised.
- Due to its concertina concept and flexible robust polypropylene material it will follow any perimeter line and is ideal for providing curved sections if required.
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Costal Erosion

- Coastal erosion is an ongoing process which threatens many regions of the world today. It is often necessary to slow down the process of erosion where there are many inhabitants located close to the shoreline and would eventually be undermined if no protective barrier was put in place to counteract the coastal erosion.
- There are often man made sand dune barriers constructed to keep back waves from the rock face but in the event of a significant storm, this type of barrier can be broken very quickly. With the aid of the “Big Bag System” which can be incorporated within a sand dune type barrier, if a storm does take place it will withstand the wave action that would penetrate an ordinary sand barrier.
- The Big Bag System is an excellent solution for coastal erosion or any other type of erosion e.g. wind erosion.
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Storm / Infrastructure protection

The “Big Bag System” can provide an economical solution to create any type of wall structure for the following:

A. Storm/Infrastructure Protection

- Infrastructure located on the beach front often requires some form of retaining wall to provide protection in the event of an oncoming hurricane or severe storm. Often there are only a couple of days warning for such an event and therefore the deployment of an emergency rapid response system is required.
- The Big Bag System is the perfect solution in the event of a possible crisis. The raw material required to fill the system i.e. sand in this case, is normally readily available, particularly along beach or shorelines.
- Where several miles of protection is required, it is important to use a system such as the Big Bag System as it has a bottom and is tested with great lifting capabilities. The cleanup costs would be astronomical if you were to opt for any other method than the Big Bag System.
- The ease of cleanup operation is why so many of our clients decide to use our system.

B. Slope Stabilisation

- The Big Bag System can be used to help assist in the process of carrying out slope stabilisation. A rapid response system such as the Big Bag System is the ideal product to use to retain steep slopes and is the fastest means of deployment if there is a threat of a mudslide or landslide.
- It can also be cleaned up as fast as it has been deployed as the system has a robust bottom throughout, therefore leaving no impact on the natural landscape once it is removed.
- Major Advantages of the Big Bag System.

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Retaining walls

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- The Big Bag System is the perfect solution in the event of a possible crisis. The raw material required to fill the system i.e. sand in this case, is normally readily available, particularly along beach or shorelines.
- Where several miles of protection is required, it is important to use a system such as the Big Bag System as it has a bottom and is tested with great lifting capabilities. The cleanup costs would be astronomical if you were to opt for any other method than the Big Bag System.
- The ease of cleanup operation is why so many of our clients decide to use our system.

B. Slope Stabilisation

- The Big Bag System can be used to help assist in the process of carrying out slope stabilisation. A rapid response system such as the Big Bag System is the ideal product to use to retain steep slopes and is the fastest means of deployment if there is a threat of a mudslide or landslide.
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River / Waterway Diversion & Cofferdam Construction

- The “Rapid Response Big Bag System” can be used to divert a river or can be constructed as a cofferdam to allow construction work to be carried out inside same under reasonably dry conditions.
- The Big Bag System is the most cost effective cofferdam in existence and one off upfront purchase will beat the hire rates ten fold of any other Cofferdam System, particularly if it is required for a period of time.
- It can be used to help facilitate repairs to bridge abutments, dams/levees etc. It is also the desired system when repairs are necessary to water and sewerage treatment plants as the systems can be laid carefully on any bed or base and due to the high own weight of the system when full, it is not necessary to anchor them in below the surface bed thus eliminating any infringement on existing service runs that may be running underneath the surface bed.
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Construction and Reinforcement of Man Made Levees

- Erosion is one of the major causes in the breach of levees around the world. By using the “Rapid Response Big Bag System” with its water repellent side (waterside) facing the river, filling and covering same with soil, you will never have a permanent breach of a levee as the soil
- will only erode to the face of the system and will not penetrate the barrier thus ensuring a levee incorporating the Big Bag System can act as a permanent solution for the provision of new or reinforcement to existing levees.
- The Big Bag System can also be deployed very quickly to reinforce an existing levee which may become under threat of a breach by forceful and rising flood waters. The Big Bag System can also be stacked to obtain any necessary height in the construction of new or repairment to existing levees.
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Flood Prevention / Protection

- The “Rapid Response Big Bag System” is the fastest means of deployment of any flood defence product currently available in terms of speed, efficiency and simplicity in the event of the declaration of any “State of Emergency” due to the threat of mass flooding.
- It has a water repellent on one side of the system and a unique filtration component on the rearside of the system to allow rainwater to seep out so as not to wash out the sand, therefore maintaining the integrity of the strength of the barrier at all times. The Big Bag System has a bottom and lifting straps throughout to facilitate the clean up which has little or no lasting impact on the environment.
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