





"Save the Beach with WAVEPLUS"



*Break Water & Rivertment Project
Chilaw, Sri Lanka*





WAVEPLUS Sandbags

"Save the Beach with WAVEPLUS"

WAVEPLUS Sand bags are specially designed to resist sea erosion and to preserve the beaches for recreational activities. It withstands powerful waves, thanks to the special bag design which takes up to 6 tons of sand in a single bag. These bags are extremely durable in the marine environment exposed to heavy sunlight. WAVEPLUS Bags are manufactured by us using special purpose-built non-woven, UV resistant fabric made in Italy. In order to take up a heavy weight of six tons in each bag and extended durability we use UHMWPE (Ultra Heavy Molecular Weight poly Ethylene) thread which is, supposedly the World's Strongest Thread.

Main Advantages of Our WAVEPLUS Sandbags to Control Sea Erosion

1. 100% Environment Friendly:

Primarily, in trying to stop sea erosion, we should take care not to cause further damage to the delicate balance in the marine environment by erecting artificial structures. WAVEPLUS sandbags on the other hand, are 100% environment friendly, as can be evidenced by activities of various species of "crustaceans" and "seaweeds" that starts to grow on the surface of bags in no time!

2. Enhanced Strength and Durability with Extra Special Bag Material and Thread:

It is an important fact to understand that due to the constant heavy sea waves, the sand bag material along with the thread is prone to heavy abrasion.

In order to address this issue we have used heavy abrasion resistant and super strong UHMWPE thread which has strength of 45,000cN. This thread is also UV stabilized and known to be the highest abrasion resistant and strongest thread available on earth.

Bag materials are purpose-built with a special UV cover and made out of 1000 gsm Virgin Quality high tenacity polypropylene fabric, which is extremely strong and highly durable.

3. Heavy Wave Resistance:

Thanks to the special bag design, wave pressure is perfectly absorbed when a "Sand Bag Dam Structure" is built.

4. Not Lost in Tides:

The bags will not get washed away by heavy waves over time, as each bag contains 5 tons of sand that expands to 6 tons when wet!



Data Sheet

	WavePlus 201	WavePlus 215	WavePlus 302
Manufactured by	SkyTech Engineering - Sri Lanka		
Size of Geo Bag (empty)	200 cm (L) X 100 cm (W)	200 cm (L) X 150cm (W)	300 cm (L) X 200cm (W)
Fabric Properties	1000 GSM, Non-woven, virgin quality, polypropylene, UV stabilized fabric		
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Geotextile Country of Origin	Made in Italy		
Mass per unit area (ASTM D 5261)	1,000 gsm		
Average Tensile Strength of GeoTextile Material (ISO 10319)	70 kN/m		
Waterflow normal to the plain (ISO 11058)	22 l/m ² s		
Static Puncture resistance (CBR) (ISO 12236)	12,000 N		
Weathering resiatnce (ISO 12224)	> 90%		
Sewing Yarn Properties			
Thread used for stitching	UHMWPE - UV Resistant, manufactured in Spain		
Average Strength of Thread	59,000cN		
Geo Bag Closing method	Lace closing		

The above bag dimensions are designed according to International standards. However, bags can also be manufactured according to customized sizes.



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