ROCK BAGS

DATA SPECIFICATION SHEET

CATEGORY:	ROCK BAGS
APPLICATION:	EROSION PREVENTION
SIZE:	VARIED

PRODUCT OVERVIEW

Rock bags are designed to withstand the harsh conditions of wave action and water currents, making them an ideal solution for protecting coastlines, river- banks, and other waterways.

PRODUCT FEATURES

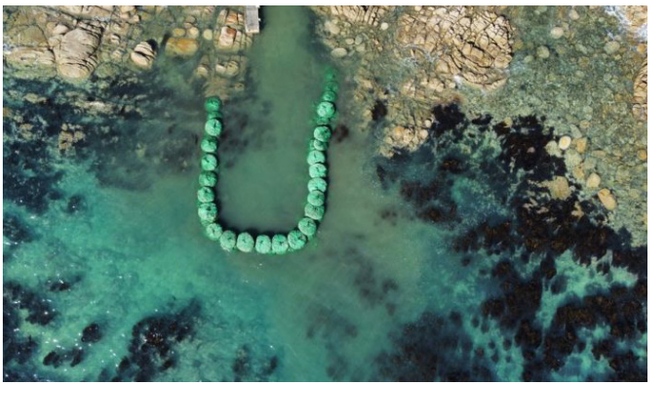
- Design life of 35-50+ years when installed underwater
- Easy to install, saving time and labor costs
- Reliable and eco-friendly
- Versatile, flexible and sustainable
- Available in 1, 2, 4, 8, 12 and 14 tons

KEY FEATURES & BENEFITS

- Rock bags are easy to install, saving time and labor costs. With its flexible net structure that adapts well to uneven surfaces, thus, eliminating the need for ground preparation works with heavy machinery.
- The design of the bag facilitates the establishment of plant life on and around the bags, creating a natural habitat for aquatic ecosystems over a short period of time.
- Offers minimal environmental impact during installation and can help avoid the need for extensive excavation or disruptive construction processes. This preserves the natural habitat and reduces the risk of secondary environmental damage.
- Reliable and eco-friendly solution for erosion control and shoreline protection
- Rock bags are easily placed in sub sea conditions
- Flexible and sustainable
- Strong and durable
- Adaptable to various site conditions and can be reused in different projects, the modular nature allows for easy reconfiguration and relocation
- Net is fully recyclable and offers excellent anti-abrasion properties and hig
- UV resistance
- Expected design life of 35-50+ years when installed underwater
- Available in PET and HDPE
- Available in various sizes from 1ton - 14tons

APPLICATIONS

- Bridge Abutments and Revetments
- Pipes for Pipeline Protection, Sub sea Cables
- Protection and securing for offshore wind turbines
- Used as barriers and defenses against flooding
- Hydraulic structures and other water bound installations
- Shoreline protection
- Act as an artificial reef



INSTALLATION METHODOLOGY

Rock bag filling and installation process is quick, safe and easy with large savings on labour costs.

Onshore filling requires a purpose built frame and machinery that requires various small graded rocks which provide good structural interlocking properties.

Rock bags are flexible by nature which eliminates the need for ground preparation.

The installation involves a series of steps to ensure they are effectively and safely deployed:

1. **Site Preparation**: Choose a level area for installation and clear it of debris and obstacles
2. **Bag Inspection:** Before filling, inspect rock bag for any damages or defects.
3. **Filling Frame Setup:** Position the filling frame on the prepared site and align the rock bag within it.
4. **Filling Process:** Begin filling the bag with the specified type and size of rocks or aggregates, ensuring even distribution for stability.
5. **Closing and Securing:** Once filled, lift up and close the rock bag using the rope provided for this purpose. After securing, remove the filling frame.
6. **Post-Filling Inspection:** Conduct a final inspection to ensure the bag is properly filled and secured.
7. **Deployment:** Carefully move the filled rock bag to the desired location and position it as per the project requirements.

Safety is paramount during installation. Always wear appropriate protective gear and follow safety guidelines.

TRANSPORT & STORAGE

When not in use, rock bags maintain a compact form, facilitating easy storage.
This design aspect ensures that they occupy minimal space, making them an ideal choice for projects where storage space is a consideration

	1t		2t		4t	
	PET	HDPE	PET	HDPE	PET	HDPE
No of rock bags per pallet	90	50	75	40	27	24
Loaded pallet dimensions	1.1m x 1.1m x 1m					
Height (m)	0.35	0.30	0.50	0.40	0.62	0.50
Diameter (m)	1.50	1.60	1.90	2.10	2.30	2.50
Volume (M³)	0.65	1.25	1.25	1.25	2.58	2.58
Weight in kg, excl ring (before filling)	4.60	5.70	5.70	7.70	11.50	13.20

	8t		12t	14t
	PET	HDPE	HDPE	HDPE
No of rock bags per pallet	12	9	5	5
Loaded pallet dimensions	1.1m x 1.1m x 1m			
Height (m)	0.83	0.70	0.73	0.76
Diameter (m)	3.20	3.50	4.00	4.30
Volume (M³)	5.00	7.50	7.50	8.82
Weight in kg, excl ring (before filling)	37.00	33.20	70.10	70.10

MANUFACTURING MATERIAL

Rocks bags are manufactured from Virgin Polyester or Virgin HDPE which are Eco-Friendly materials. These materials are also elected for durability and minimal environmental impact.

The material ensures a reduced release of micro plastics, protecting aquatic ecosystems and water quality

PRODUCT SPECIFICATIONS

	1t	2t	4t	8t	12t	14t
Rocks/Stones	50mm - 80mm	50mm - 80mm	50mm - 80mm	100mm-170mm	100mm-170mm	100mm-170mm
Mesh size	25mm	25mm	25mm	50mm	50mm	50mm
Stone/rock size used	50mm-180mm	50mm-180mm	50mm-180mm	50mm-180mm	50mm-180mm	50mm-180mm
Type of rock/Stone	Preferably no sharp edges to ensure the net is not compromised					
Dimensions of filling frame	1 x 1 x 0.65m	1.2 x 1.2 x 0.9m	1.5 x 1.5 x 1.15m	2.25 x 2.25 x 1m	2.74 x 2.74 x 1m	2.97 x 2.97 x 1m
Safe water velocity (m/s) in single form	<2.72	<2.88	<3.33	<3.40	<3.82	<3.90
Safe water velocity (m/s) in multi form	<4.70	<5.00	<5.77	<5.90	<6.60	<6.75

Range	Weight Capacity	Material
Classic	1, 2, 4, 8 tonne	Virgin Polyester
Prime	1, 2, 4, 8 tonne	Virgin HDPE
Max	12, 14 tonne	Virgin HDPE

OUR CLIENTS

HEAD OFFICE - BRISBANE
Address: Level 1, 7/41 Paringa Road, Murarrie
Queensland
Tel: +61 408 349 389
Email: chantal@scourtech.com.au

www.scourtech.com.au