


THE NEW SERIES OF 2023

THE BEST SOLUTION
EVEN BETTER

 **AQUA
ROCKBAG**®

A brand of iGG

Internationale Geotextil GmbH

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Solutions from
GERMANY



International Geotextil GmbH (IGG) is a leading company in the natural fiber geotextile industry based in Germany. With years of experience and expertise, the company specializes in the manufacturing and distribution of high-quality erosion control mats and blankets that are used in various civil engineering and construction projects. IGG prides itself on providing durable and reliable geotextiles that meet the needs of their clients across the globe.

Furthermore, IGG is also a well-known provider of hydroseeding products, which are used in erosion control and vegetation establishment projects. Hydroseeding is a cost-effective and efficient method of planting grass, shrubs, and other vegetation on slopes, hillsides, and other hard-to-reach areas. The company's hydroseeding products include mulch, seed, and fertilizer blends that are specifically designed to provide the nutrients and support necessary for fast and

healthy plant growth. With their extensive expertise in geotextile and hydroseeding products, IGG is a reliable partner for professionals in the civil engineering, construction, and landscaping industries.

To complete the range of products, IGG is also a leading provider of Aquarockbags, a cutting-edge solution for shoreline protection and erosion control. Aquarockbags are made from durable geotextile fabric and filled with natural rock material, providing an eco-friendly solu-

tion for stabilizing shorelines and preventing soil erosion. These bags are designed to withstand the harsh conditions of wave action and water currents, making them an ideal solution for protecting coastlines, riverbanks, and other waterways.

IGG's Aquarockbags are customizable, allowing them to be tailored to meet the specific needs of a project. They are also easy to install, saving time and labor costs. With their commitment to innovation and sustainable practices, IGG's Aquarockbags are a reliable and eco-friendly solution for erosion control and shoreline protection.

The company has a strong commitment to innovation and sustainability, continually improving their products and processes to meet the evolving needs of the market while reducing their environmental impact. With a dedicated team of professionals, IGG is dedicated to delivering outstanding customer service, ensuring that their clients receive the best possible products and support.

Thomas & Steffen Roess

Thomas Roess *Steffen Roess*

+ Erosion control blankets

+ Erosion control textiles

+ Mounting materials

+ Water logs

+ AquaRockBag®

+ Hydroseeding

+ Fertilizer and mulch material

INTRODUCING AQUAROCKBAGS®

Traditional harder revetments – including gabions, sheet piling, rock rip-rap or blockstone – can

- be detrimental on natural river processes (e.g., pushing erosion problems downstream)
- negatively impact upon aquatic ecological habitats
- be difficult to install in deeper water

The optimal way to eradicate these problems is by using AquaRockBag®

A large, dark-colored mesh bag filled with rocks, suspended by a rope. The bag is shown from a top-down perspective, highlighting its conical shape and the texture of the mesh. The rocks inside are of various sizes and colors, including grey, brown, and reddish tones.

+ River bank revetments

+ Scour protection

+ Artificial reefs

+ Shoreline protection

+ Marine and coastal structures



AquaRockBag® is an environmentally innocuous, high-performance net filled with graded rock which is used in erosion control, scour protection and landscape (re-)modeling. Due to its unique characteristics, it is the optimal alternative to the aforementioned conventional methods for four major reasons:

1. High interstitial spaces absorb water energy while simultaneously providing habitat for flora and fauna through accretion of sediments.
2. Due to its flexibility, AquaRockBag® adapts well to uneven surfaces which eliminates the need for ground preparation works (to a large extent).
3. AquaRockBag® is easily placed in deeper water environments.
4. It is the optimal base for softer soil bioengineering methods to be used at and above average water level thus providing a natural solution that blends in perfectly with its surrounding.

APPLICATIONS

AquaRockBag® works best under water and can be combined with softer soil bioengineering solutions at and above average water level to achieve a natural solution blending in perfectly with its surrounding. The filled bags can be used in both fluvial and intertidal zones with typical applications being:



Quick & easy



Flexible & sustainable



Economical



Strong & durable

+ River bank revetments

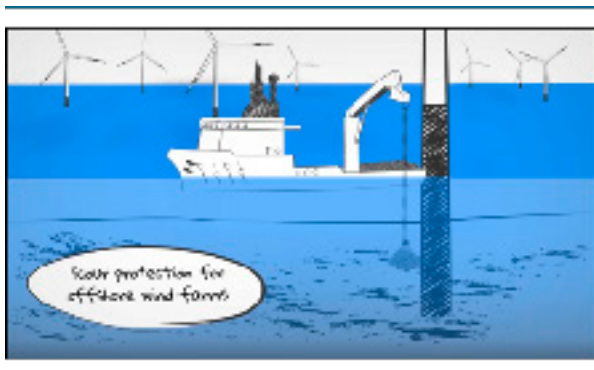
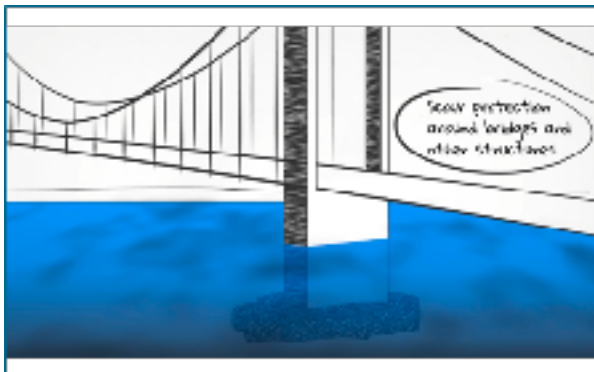
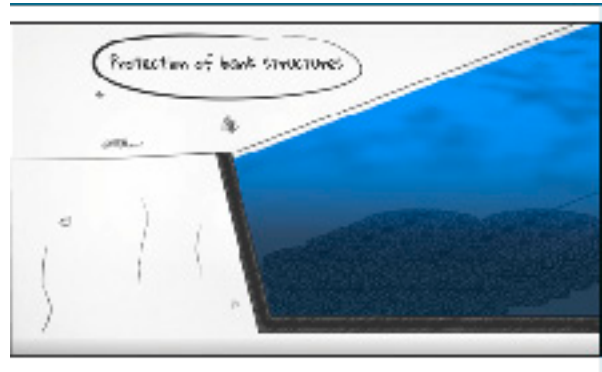
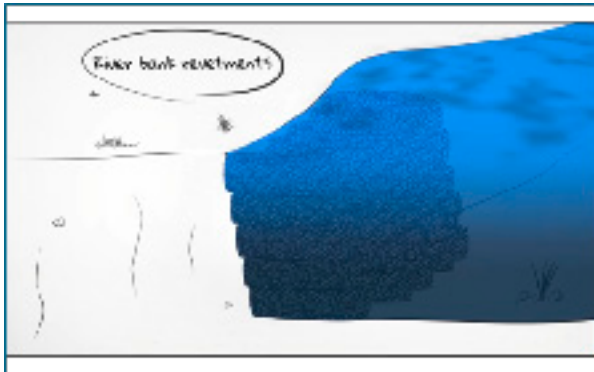
+ Scour protection around bridge pillars and other structures

+ Temporary work solutions

+ Artificial reefs

+ Shoreline protection

+ protection and securing of submarine cables, pipelines or offshore wind turbines





1 to 12 tons



The Essence of Durability Crafted with Virgin Polyester, AquaRockBag® Classic offers unparalleled strength and resilience, suitable for a wide range of applications.



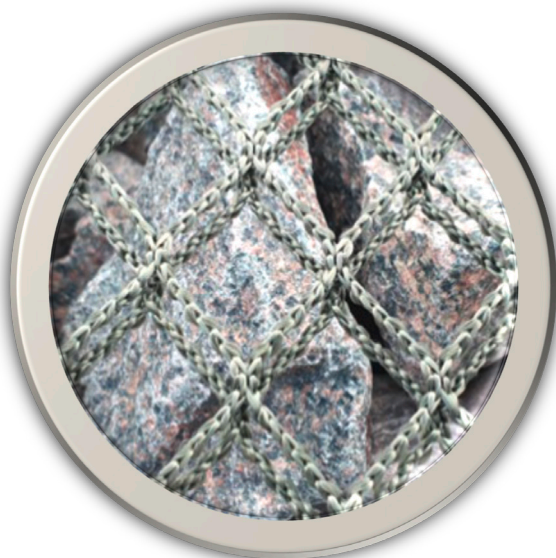
The Epitome of Innovation Made with Virgin HDPE, AquaRockBag® Prime offers superior performance in even the most challenging conditions.



The Pinnacle of Offshore Solutions A special addition to the AquaRockBag® family, the MAX is our newest and largest offering. Designed specifically for offshore applications, it boasts the capacity to support weights up to 12 tons.

AquaRockBag® Capacity Range
With a versatile volume range, AquaRockBag® is designed to handle projects big and small, supporting weights from 1 to 12 tons.

EASY INSTALLATION



FILLING

AquaRockBag® is typically filled at job site using a portable filling frame and machinery (e.g. excavator). The process is very quick and requires basic staff training only. For a visual in-depth “Filling Guide” please refer to www.aquarockbag.eu.



ROCKS

For the filling of the AquaRockBags® stones in sizes

Additional info:

- White marker rope indicates the filling level and is not to be exceeded.
- Each AquaRockBag® comes with a lifting eye and all ties.



AQUAROCKBOX

The size of the filling box depends on the size of the AquaRockBag® used. The filling box is a smooth frame without bottom and lid or other edges. At each corner is a lashing point for hanging chains or straps.

BENEFITS

Quick & easy – Economical

The AquaRockBag® filling and installation process is quick, safe and easy which results in big savings on labour costs.

- Onshore filling with a purpose-built frame and machinery (e.g. excavator) that use small rocks often available at job site. Smaller stone grading provides good structural interlock need to provide

a robust revetment.

- The same machinery can be used for precise installation of AquaRockBag® via quick hitch and lifting eye without the need of workers being in the water.
- Flexible nature of the filled AquaRockBag® eliminates need for ground preparation (to a large extent).



+ Jig it



+ Fill it



+ Close it



+ Lift it



+ Stack it



+ Dive it



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