

Basalton Quattroblock from Holcim Coastal

Shore protection proofs to be even more efficient

During the initial stability test of the Basalton Quattroblocks, conducted for the Afsluitdijk Project in 2017, the stability of the block was so high that it could not be tested to its full capacity. The stability factor as determined at present reflects the lower limit of the block stability. Additional tests have been conducted in the Delta Flume of Deltares, the Netherlands, to determine the full capacity of the Basalton Quattroblock.

At the time, the stability factor was set at a lower limit of 1.37. "By carefully selecting the model scale the maximum capacity of the Quattro block could be established to be no less than 1.64. "The new stability number will be included by Rijkswaterstaat (Ministry of Infrastructure & Water Management) in the forthcoming version of the Steentoets (RWS Rock Manual). The Basalton Quattroblock remains the most stable revetment unit for revetments and shores.

CO2 reduction at lower costs

With a stability number of 1.64, design can be done even more efficiently. Revetments covered with Basalton Quattroblock can withstand larger waves, and both new projects and renovations of existing works can be carried out with a thinner armour layer. This saves concrete and CO2, results in a lower EPD for the entire project and provides cost savings for the end user.

Sustainable future

The Holcim Group is fully committed to being net-zero by 2050. With smarter design (such as Basalton Quattroblock) and smart materials (such as bio receptive and CO2-free concrete), Holcim contributes to the success of every project and we ensure that we make coastal and river areas worldwide safer and more sustainable.

#webreakwaves

Media

https://www.linkedin.com/posts/holcim-coastal_holcim-coastal-flume-tests-deltares-basalton-activity-6942067623790567424-E95e?utm_source=linkedin_share&utm_medium=member_desktop_web

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About Holcim Coastal

Holcim is at the frontline of the construction industry with a strong focus on the Infrastructure sector, producing and supplying an array of construction materials ranging from precast concrete elements and armour stone. By building the foundations of tomorrow, together we can respond to the infrastructure challenges of the next 100 years. Our mission is to provide safety and resilience on the border between land and water, and to be recognised as the leading supplier of sustainable and high-quality concrete and stone solutions for coasts and waterways. We are your trusted partner for your coastal, port and waterways projects and start working with you on your projects at the design stage to understand your key needs and help you find the best construction solutions. Our infrastructure experts – operating at global, regional and country levels – are ready to support you.

Holcim Coastal is a proud member of the Holcim Group. More information is available on www.holcimcoastal.com

About Holcim

Holcim builds progress for people and the planet. As a global leader in innovative and sustainable building solutions, Holcim is enabling greener cities, smarter infrastructure and improving living standards around the world. With sustainability at the core of its strategy Holcim is becoming a net zero company, with its people and communities at the heart of its success. The company is driving the circular economy as a world leader in recycling to build more with less. Holcim is the company behind some of the world's most trusted brands in the building sector including ACC, Aggregate Industries, Ambuja Cement, Disensa, Firestone Building Products, Geocycle, Holcim and Lafarge. Holcim is 70,000 people around the world who are passionate about building progress for people and the planet through four business segments: Cement, Ready-Mix Concrete, Aggregates and Solutions & Products.

More information is available on www.holcim.com