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LIMESTONE CASE STUDY



Redi-Rock PC Ocean Marina Wall Withstands Worst Storm in Years

The Challenge

In 2012, the City of Rhyl, North Wales launched a massive renovation project. The goal? Transforming the river's edge. This area is subject to large tides and even greater fluctuations in water elevations during storms. To protect the site, designers required a retaining wall solution that could meet the complex structural requirements of the site while providing a scenic park route for pedestrians and cyclists.

The Solution

Designers for the project chose the Redi-Rock Positive Connection (PC) System to create the harbor wall that

stands 7.4 meters (24.3 feet) high and stretches 188 lineal meters (617 feet). Produced locally by Redi-Rock manufacturer CPM Group, the Redi-Rock PC walls were able to meet the structural requirements of the site as well as provide an aesthetic Limestone finish at a lower cost than other options.

"The Redi-Rock product is very simple but massively effective," said Jamie Turner, Site Agent for general contractor Dawnus Construction. "It is easy to install and the end product looks fantastic. I would definitely use this product again."

During the 2013-2014 winter season, the new harbor sea wall was put to the test. For days, a storm battered the United Kingdom and caused a 60-year high tidal surge. January wave heights were close to 100-year level.

While this massive storm caused damage to many other structures in the area, designers were happy to see that the harbor wall performed exactly as engineered. The city was so impressed with how the Redi-Rock wall performed during the storm, they replaced 1 kilometer (3280 feet) of walls with Redi-Rock

Project: Foryd Harbour Enhancement Project **Wall Design:** Groundsolve Ltd Geotechnical Consultants in conjunction with CPM Group **Block Manufacturer:** CPM Group **Project Management:** Denbighshire County Council **General Contractor:** Dawnus Construction **Location:** Rhyl, North Wales, United Kingdom **Completed:** 2013

Limestone Block Specifications

- Quarried stone texture
- 5.75 square feet (0.5 square meters) of face
- Four unique faces to give walls a random aesthetic
- Approximately 23 square feet (2 square meters) of non-repeating texture available
- Wet-cast concrete gives a greater level of detail and durability



Contact your local Redi-Rock retailer or visit redi-rock.com to learn more about the Redi-Rock Limestone face today!