

01 PILAR COASTAL DEFENCE

PARAGUAY RIVER BANK REINFORCEMENT • FLAGSHIP PROJECT

PROJECT CASE • PARAGUAY



Defence slope lined with 150 mm AB600 Articulated Block

172,000

M² OF COVERAGE

AB600

ARTICULATED BLOCK •
150 MM (15 CM)

1,000

M² INSTALLED PER DAY

26,460

M³ OF CONCRETE — CAST
IN SITU

The challenge: the Pilar river defence is exposed to vessel wash and to high flow velocities on a navigable reach of the Paraguay river. External protection of the embankment demanded a continuous, durable and fast-to-build lining over 172,000 m².

The solution: mattress **HYDROTEX® AB600 Articulated Block, 150 mm (15 cm)** with internal cables in one direction. The panels were made to measure from the hydraulic information, the survey data and the expected climatic conditions. With technical training on site, the installer reached an output of **≈1,000 m² a day** of formwork filled with concrete. At a rate of 1 m³ of fine aggregate concrete per 6.5 m² of mattress, the project consumed **≈26,460 m³ of concrete** — and once finished, the lining forms **a single, fully interconnected piece** by the cables.

"Our system has replaced the use of Flexmat and the construction company is saving time and manpower and maximising labour efficiency." — **Technical team on site**



The works under way on the bank of the Paraguay river



Bridge pier protection on the same project

PROJECT FILE

Project	Pilar Coastal Defence
Location	Pilar, Ñeembucú — Paraguay river
Product	HYDROTEX® AB600 Articulated Block · 150 mm
Area	172,000 m ²
Concrete	≈26,460 m ³ (1 m ³ per 6.5 m ²)
Performance	≈1,000 m ² /day filled