

04 STORMWATER OUTFALLS — AQUADELTA

SCOUR PROTECTION AT STORMWATER OUTFALLS

PROJECT CASE · PARAGUAY



Aerial view — the whole outfall down to the river

1,300

M² OF COVERAGE

AB400

DOUBLE ARTICULATION

Underwater

FILLED WITH NO FLOW DIVERSION

The challenge: stormwater outfalls concentrate large flows at single points: at the exit of each culvert, the energy of the water digs scour holes that end up compromising the structure itself and the embankments.

The solution: aprons of **HYDROTEX® AB400 Articulated Block mattress with double articulation** at the outfalls, cast in situ over the geometry of each discharge. The textured surface dissipates energy, the mattress articulates to follow the ground and the filling was carried out **even underwater**, with no need to divert the flow.

Technical note: cutting the textile panel to measure makes it possible to wrap wingwalls, headwalls and transitions of the existing civil works — something impossible with precast slabs.



The outfall channel protected, in service



Mattress filled underwater, in service

PROJECT FILE

Project	AquaDelta stormwater outfalls
Product	HYDROTEX® AB400 double articulation
Area	1,300 m ²
Distinctive feature	Partly filled underwater