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
PART OF THE CASTING, WITHOUT DIVERTING THE FLOW

The challenge: in a premium gated community, stormwater outfalls concentrate large flows at specific points: at the exit of each culvert, the energy of the water digs scour holes that end up undermining the structure itself and the embankments.

The solution: aprons of **HYDROTEX® AB400 Articulated Block mattress with double articulation** at the outfalls, formed in situ over the geometry of each discharge. The textured surface dissipates energy, the mattress articulates to follow the ground and **part of the casting was done under water**, with no need to divert the flow.

> **Technical note:** cutting the textile panel to measure makes it possible to wrap wing walls, headwalls and transitions of the existing civil works: the mattress adapts to every shape, with no cuts or special pieces.



The outfall channel protected, in service



Culvert outfall: the mattress covers the bottom and climbs the side slopes

PROJECT FILE

Project	AquaDelta stormwater outfalls
Client	Premium gated community
Product	HYDROTEX® AB400 double articulation
Area	1,300 m²
Distinctive feature	Partly filled underwater