02 ACCESS ROAD TO THE TOWN OF ALBERDI

STRATAWEB® GEOCELLS ON 5 KM OF FLOODABLE EMBANKMENT · ÑEEMBUCÚ

PROJECT CASE · PARAGUAY



The geocell running along the embankment: each cell holds the material and keeps the water from washing it away

57,000 m²
OF GEOCELL ON THE SLOPES

5 km
OF ACCESS ROAD ON EMBANKMENT

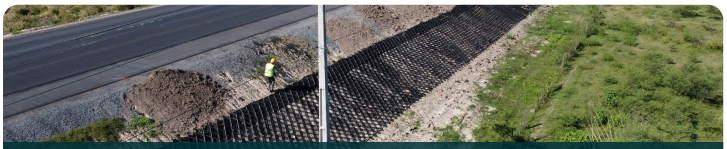
150 mm
CELL HEIGHT, FILLED WITH LOCAL TOPSOIL

2 sides
THE RIVER FLOODS IT FROM BOTH SIDES IN EVERY FLOOD

The challenge: the Alberdi access road is an embankment of about 5 km across the Paraguay River floodplain. In every flood the river covers it from both sides: the water rises, soaks the slope and, as it recedes, carries the material away. An ordinary vegetated slope cannot withstand prolonged flooding or rapid drawdown; a concrete one is very expensive over five kilometres and cracks as the embankment settles.

The solution: a layered system over 57,000 m²: geocell **150 mm StrataWeb®** anchored to the slope and filled with local topsoil; on top, hydraulic mulch with seed and turf reinforcement mesh. The geocell confines the soil and keeps it from washing away; the mulch fixes it and gets it growing; the mesh stays as permanent reinforcement interwoven with the roots. The slope withstands flooding and drawdown without losing material.

> **Confine, anchor, reinforce:** when the slope floods, no single layer is enough on its own. The system is the solution; the product is one part of it.



The embankment with the geocell, with a person for scale



The Ece crew filling the cells with local soil

PROJECT FILE

Project	Slope protection on the Alberdi access road
Location	Alberdi, Ñeembucú · Paraguay River
Product	150 mm StrataWeb® + hydraulic mulch and turf reinforcement mesh
Area	57,000 m²
Scope	System design, supply and installation with own crew