04 DATA CENTER WALL

REINFORCED SOIL WALL WITH STRATAGRID™ · 4 M HIGH · STONE FACE

PROJECT CASE · PARAGUAY



Start of the wall: the mesh facing modules follow the curve of the alignment, with the geogrid alongside, ready to be laid

1,200 m²
OF WALL FACE

4 m
HIGH

Stone face
NON-VEGETATED FACING

New build
NOT A REPAIR

The challenge: a change in level that had to be solved in little space, with an exposed facing that would last. The alternatives were a reinforced concrete wall —foundation, formwork, rebar, time— or a gentle slope that would eat up usable land on the site.

The solution: a 4 m high reinforced soil wall: layers of compacted fill with polyester geogrid **StrataGrid™** between each layer, anchored to a facing with a stone face confined in mesh. Soil handles being squeezed well and being stretched badly; the geogrid provides that tension, and the whole works as a single block. No structural concrete: the material is the soil that was already there, compacted in layers with a vibrating plate and checked in each one.

What is controlled is not the facing: it is the density of each fill layer, which becomes inaccessible as soon as it is covered.



The stone face confined in the mesh, with the geotextile over the top layer



Layer-by-layer compaction with a vibrating plate

PROJECT FILE

Project	Reinforced soil wall
Location	Data center · Paraguay
Product	StrataGrid™ geogrid · confined stone facing
Area	1,200 m² of wall face · 4 m high
Scope	Design, supply, supervision and construction with own crew