

CASE STUDY
HARTSFIELD-JACKSON
INTERNATIONAL AIRPORT

Slope Stabilization - Erosion Control
 Atlanta, GA



PROBLEM

Heavy rainfall was causing severe erosion and slope failure along the fifth runway



SOLUTION

ARMORMAX was used to stabilize the slope and promote vegetation

PROJECT SUMMARY

Hartsfield-Jackson International Airport is the world's busiest airports, accommodating 100 million passengers and more than 950 thousand flights per year. Heavy rainfall was causing severe erosion and slope failure along the fifth runway. If not corrected, the increasing erosion and surficial failures could have grown to create a globally unstable slope. The airport wanted a solution that would stabilize the slope and provide a vegetated outcome that would be easily maintainable.

More than 1,000 square yards of slope needed to be stabilized. However, machines and large equipment could not be used above the slope because of its proximity to an active runway. Transporting and installing traditional armoring solutions such as rock riprap, requires large trucks and multiple machines. In contrast, the equipment used to install the ARMORMAX® system is compact and minimal. The system, consisting of High Performance Turf Reinforcement Mat (HPTRM) and Engineered Earth Anchors (EEA), was selected to provide surficial stability against a four foot failure.

ARMORMAX significantly increased the Factor of Safety (FoS) from 1.0 to more than 1.3. Additionally, the slope was quickly vegetated and remains lush today. In addition to providing aesthetic improvements, the vegetation helps improving groundwater quality and has a significantly smaller carbon footprint than traditional armoring solutions.

ARMORMAX[®]
 Engineered Earth Armoring System

PropexGlobal.com/Armormax

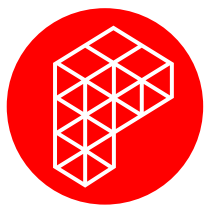
FEATURES & BENEFITS

- Provides permanent erosion protection for up to 75 years
- Withstands both hydraulic and non-hydraulic stresses
- Ease of installation reduces time and labor costs
- Reinforces vegetation and promotes a living shoreline
- Outlasts other slope reinforcement methods yielding significant cost savings
- Promotes infiltration of surface water
- Available in green or tan to fit specific project needs
- Lightweight and easily transported into areas with access challenges



PERFORMANCE

The Factor of Safety was significantly increased and vegetation quickly established



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