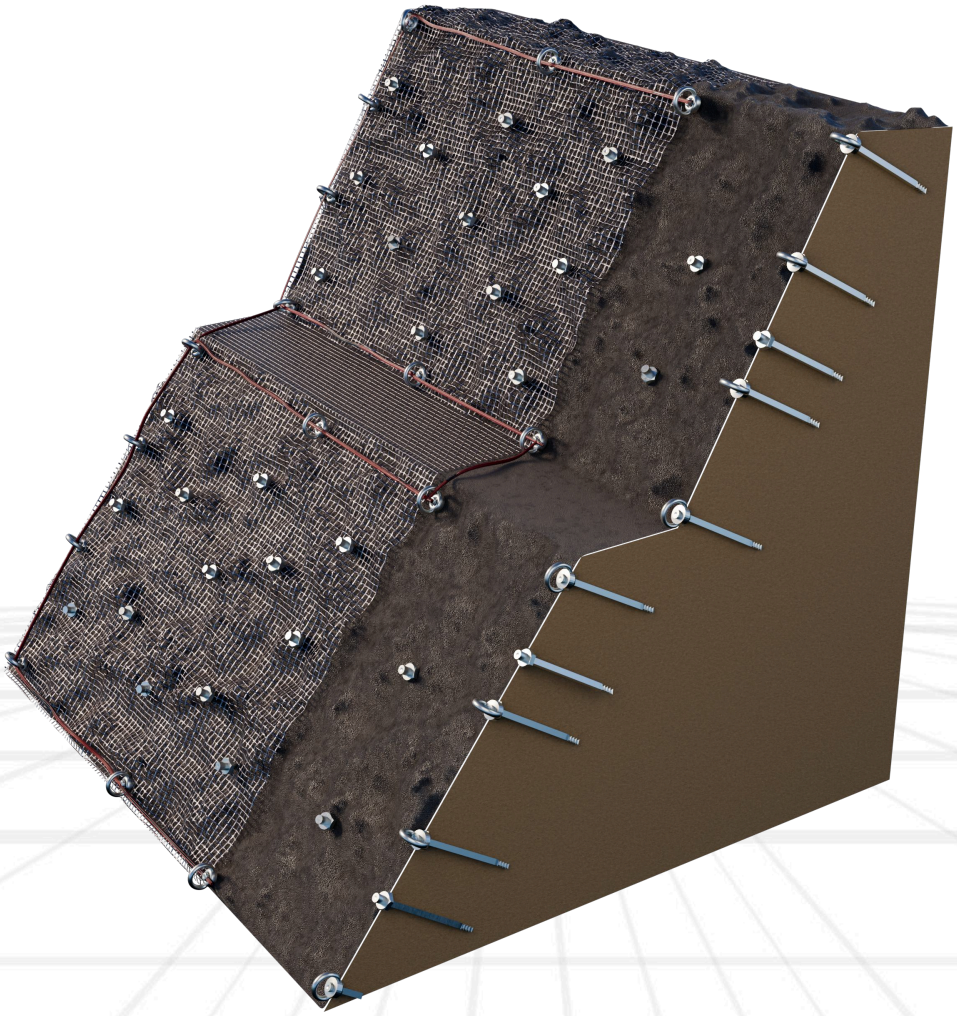
CONSTRUCK SLOPE ROCK WRAPBASIC

Double-Twist Wire-Mesh Drapery with Bolts and Perimeter Cables (Classic Rockfall Containment)



CST-RWB-BRO-00015

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CONSTRUCK SYSTEMS & TECHNOLOGY

Research and Development | Design | Manufacturing | Geotechnics

Robust Containment Skin

When a cut slope is **globally stable** but sheds raveling blocks, you don't need shotcrete—you need a **robust containment skin** that guides debris to the ditch and keeps the carriageway open. **ConstruckSlope RockWrap** is our classic wire-mesh drapery system: **double-twist hexagonal mesh** hung from the crest and secured with **rock bolts terminated in eye-nuts**. **Perimeter cables** at the crest and toe close the envelope so loosened pieces stay behind the mesh and loads transfer cleanly to anchors.

What makes RockWrap Basic different

Double-twist, non-ravel mesh

if one wire breaks, the panel doesn't unzip.

Perimeter-cable closure

eye-nut bolts + wire rope at top and bottom form a secure frame that resists bulging and lift-up.

SPaaP — Slope Protection as a Product

a complete, factory-matched kit (mesh, anchors, cables, hardware, details) and an installation method refined on thousands of meters.

Designed for harsh exposure

Zn-Al (or polymer-coated) mesh and stainless hardware options for **marine/UV** corridors.

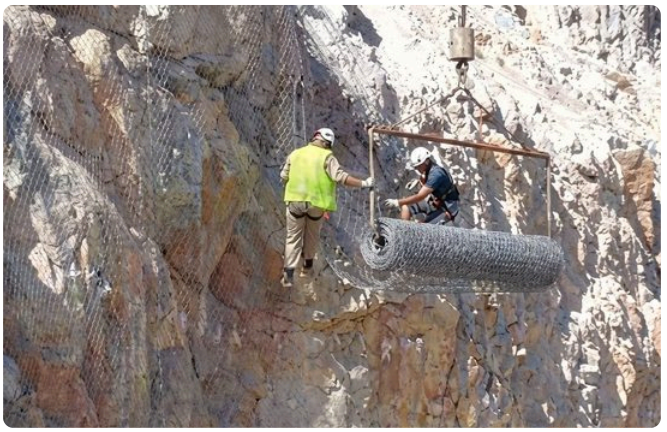
Where it is used



- Weathered rock slopes, talus-mantled cuts, portal approaches, and wadi margins where **containment** (not structural reinforcement) is required.
- New works, upgrades, and emergency repairs along highways and rail.

What problems it solves

- Rock ravel and small-block detachment landing in lanes.
- Maintenance closures to clear debris after storms or freeze–thaw.
- Slow, high-carbon shotcrete operations near live traffic.



System, Components & Benefits



1. Double-Twist Wire Mesh Drapery

Hexagonal mesh panels sized for the slope height; factory-coated for corrosion resistance; supplied with clips/hogrings for panel seams.



2. Rock bolts with eye-nuts/Base Plates (2–3 m typical)

Crest line bolts and toe/bench bolts fitted with **eye-nuts** to accept perimeter cables and intermediate fixing



3. Wire Rope Cables (crest/bench & toe)

Wire ropes threaded through the eye-nuts to **close the envelope** and transfer loads to anchor lines; supplied with clamps/stoppers/turnbuckles as specified.

SPaaP advantage: one matched kit, one method statement, one trained crew → **predictable quality**, fewer interfaces, faster approvals.

How the drapery works

- The mesh is **hung from the crest** and allowed to drape closely over the face.
- **Perimeter cables** at top and bottom (through eye-nuts) keep edges closed and manage uplift.
- Detached blocks are **contained behind the mesh** and guided downslope into the ditch/berm.
- Panel seams are clipped/laced so loads can **travel across panels** without tearing.





Benefits at a glance

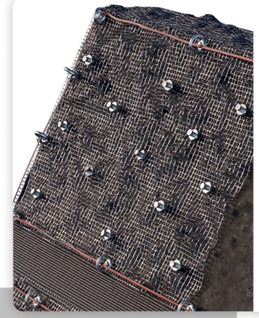
- **Simple, proven, economical** solution for raveling rock.
- **Fast to install** with rope access or MEWPs; minimal heavy plant.
- **Safer corridors**: fewer emergency lane closures for small falls.
- **Durable in coastal/UV** settings with coated mesh and stainless options.
- **Low life-cycle cost**: easy local repairs by lacing in new panels.

More than just Erosion Control - A SPaaP Specialty, Fully Loaded with Engineering Features



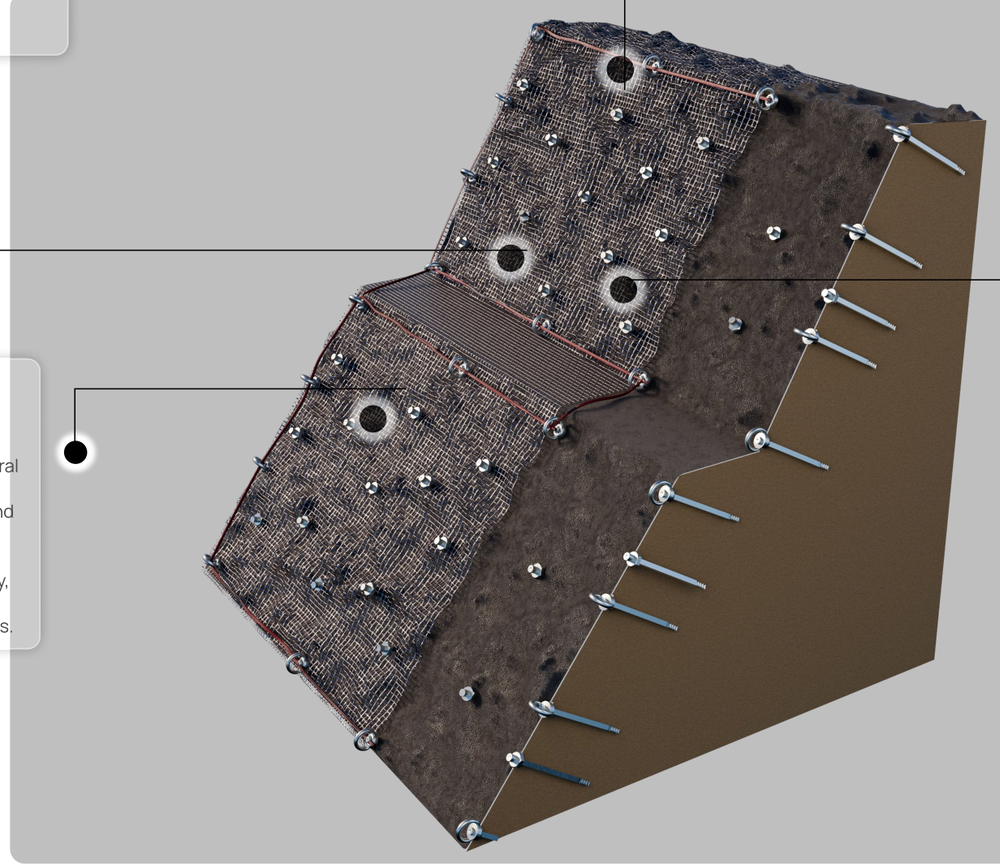
One matched kit.

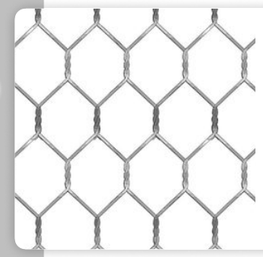
Zero guesswork. Every component — mesh, anchors, cables, and hardware — is factory-matched and shipped as a complete system, backed by an installation method proven across millions of square meters worldwide.



Perimeter-cable closure

Perimeter cables at the crest and toe pass through eye-nut bolt fittings to secure the mesh boundaries and transfer forces to the end anchors.





Non-Ravel Mesh Integrity

Double-twist hexagonal mesh prevents zipper-type unravelling even if a wire breaks, maintaining slope coverage and containment under localized damage.

Deep Stability with Rock Bolts and Anchors

Rock bolts and anchors form the structural backbone of our anchored systems—transferring loads deep into stable ground to counteract slope movement. Each system is engineered for site-specific forces, ensuring long-term slope stability, resistance to deep-seated failure, and enhanced safety in challenging geologies.





Performance, SPaaP & Spec Snapshot

Why RockWrap Basic works for raveling rock



- **Containment first**: blocks detach but **stay behind the mesh**, guided to the ditch without entering traffic lanes.
- **Non-ravel mesh**: double-twist hex mesh keeps integrity if a single wire fails—no zipper-type unravelling.
- **Reliable load paths**: **eye-nut bolts → perimeter cables** → end anchors create clean, inspectable load transfer.
- **Rapid maintenance**: repair by **lacing in replacement panels**; adjust cable tensions as part of routine checks.

SPaaP — Slope Protection as a Product

A **matched kit** with a single warranty path and a tested method statement.

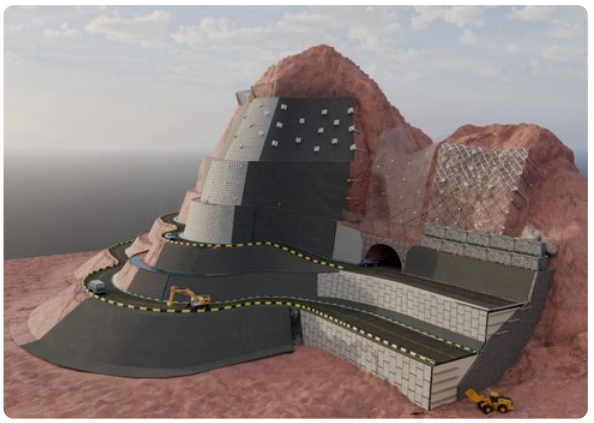
Pre-performance-tested components for submittal efficiency and predictable outcomes.

Faster programs and safer work near live traffic: fewer trades, lighter logistics, shorter closures.

Advantages

- **Economical, fast containment** for globally stable but ravel-prone slopes.
- **Minimal visual mass** versus shotcrete; preserves natural rock appearance.
- **Coastal/UV ready** with coated mesh and stainless options.
- **Scalable** from short portals to tall cuts (panelized approach).
- **Low life-cycle cost** with simple, local repairs and routine tension checks.

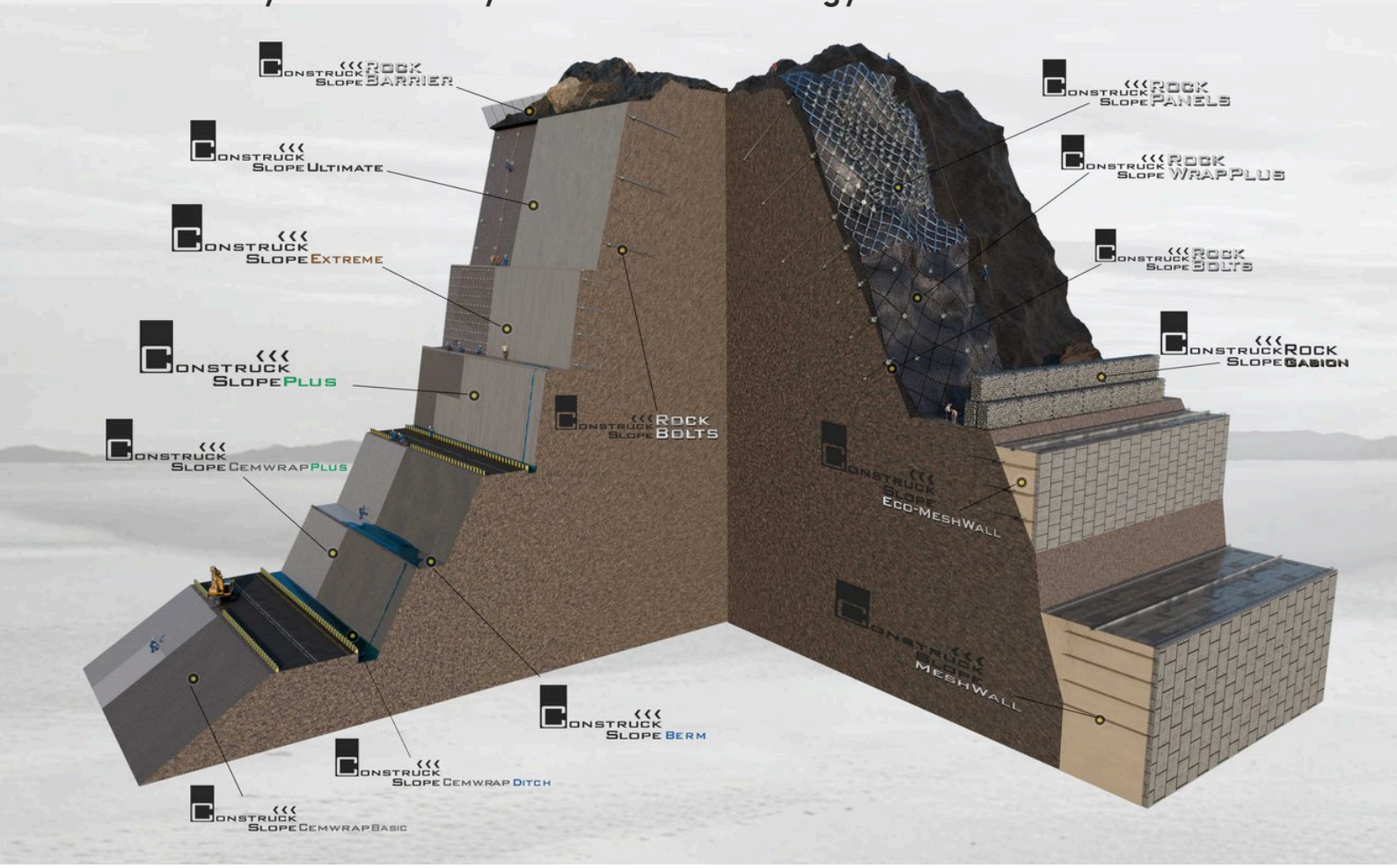
- **Over 500,000 sqm** supplied and installed around the world.
- **Local** Production Compatible



The classic, clean rockfall solution

ConstruckSlope RockWrap Basic delivers the **core essentials**—non-ravel mesh, eye-nut bolts, and perimeter cables—in a ready-to-install SPaaP kit. It's the fast, reliable way to **contain raveling rock**, reduce emergency closures, and keep mountain roads moving.

The Widest Range of SPaaP® in the World, Powered by Construck Systems and Technology.



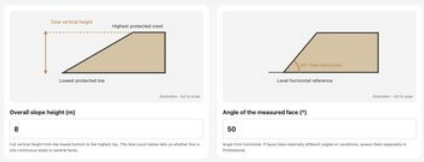
Digital support

Better decisions. A stronger project.

Explore the options, strengthen the technical basis and connect the people, information and delivery behind your Construck system.

Construck Calc

Understand the ground.
Build the technical case.



Actual Quick Check interface / sample geometry.

Quick Check
A free first step into relevant systems, preliminary quantities and indicative cost.

Professional
Bring surveys, ground conditions and existing studies into a project-specific assessment.

A further stability study
A project-specific stability study is included for each slope we take forward for protection.

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One connected platform.
Support from start to finish.



Actual development workspace / sample records.

Manufacturer expertise, local support
Connect technical teams and authorised local partners around the selected Construck system.

Supply and construction, coordinated
Keep technical preparation, material supply and installation quality in the same workflow.

Sustainability and handover
Relate environmental estimates to project quantities and retain useful information for the asset.

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Quick Check is preliminary guidance. Professional assessment and support follow the agreed scope and required approvals.





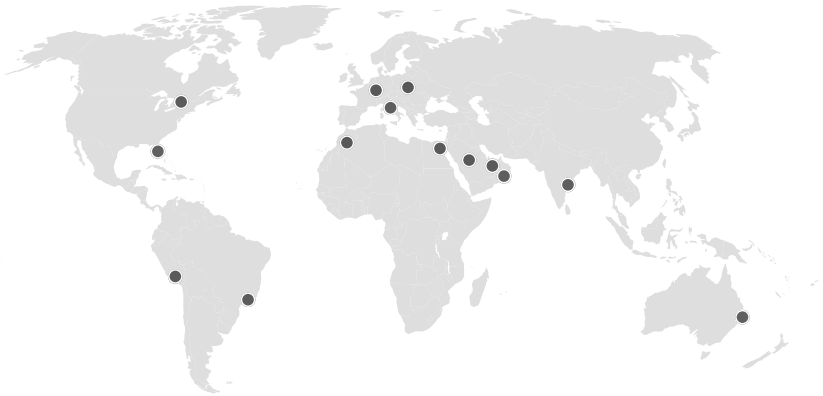








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