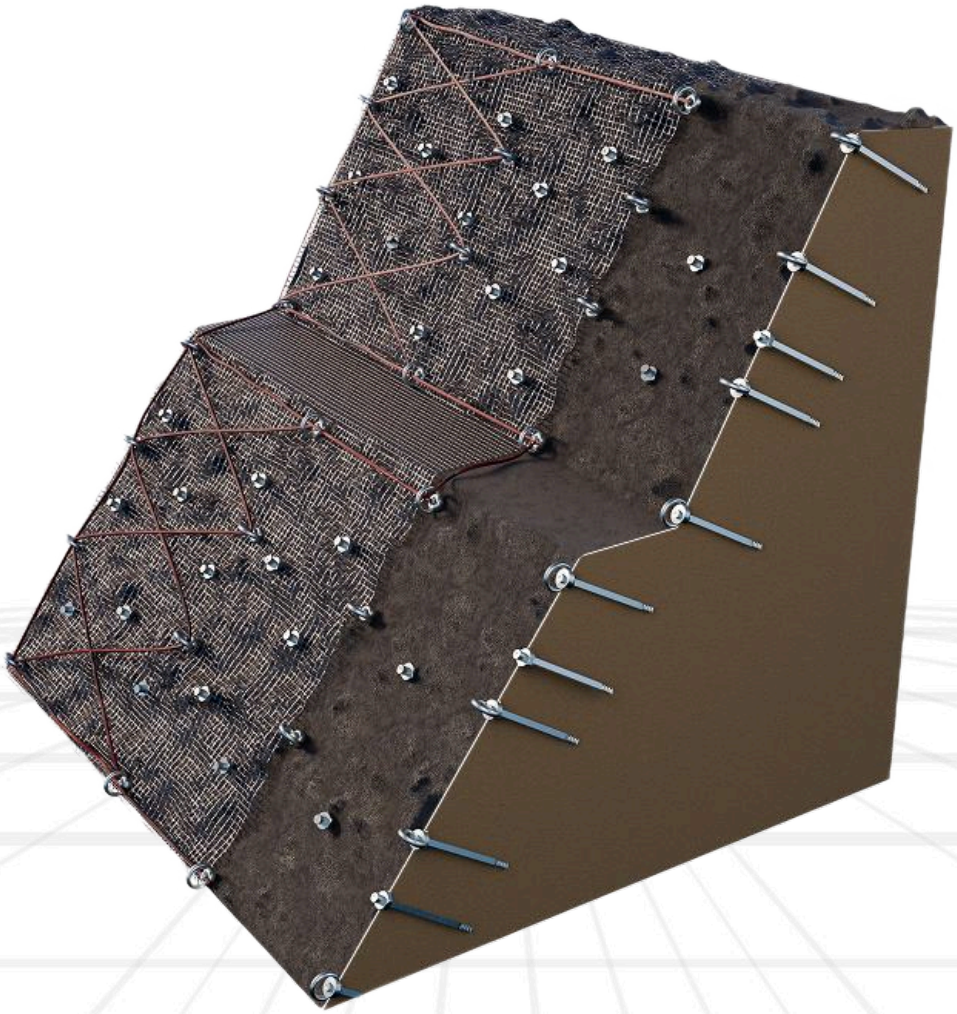
CONSTRUCK SLOPE ROCK WRAPPLUS

Secured Drapery with Cross-Laced Wire Ropes and RockBolts



CST-RWP-BRO-00016

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CONSTRUCK SYSTEMS & TECHNOLOGY

Research and Development | Design | Manufacturing | Geotechnics

Why RockWrap Plus

Face-conforming rockfall control for rough, weathered slopes

Standard drapery can "balloon" on irregular rock, leaving pockets where blocks gain momentum. **RockWrap Plus** upgrades classic double-twist drapery into a **secured, reinforced system**: mesh panels are anchored with **eye-nut rock bolts (3–6 m)** and **cross-laced wire ropes** that keep the mesh close to the face, share loads between anchors, and reduce pillowing. The result is tighter containment, cleaner load paths, and fewer surprises in service.

What makes RockWrap Plus different

Reinforced drapery

double-twist hexagonal mesh + **perimeter cables** + **criss-cross face ropes** routed through **eye-nut bolts**.

Face-hugging control

cross-lacing limits sag, improves contact over overhangs and steps, and **distributes impact loads**.

SPaaP — Slope Protection as a Product

delivered as a matched kit—mesh, anchors, cables, rope hardware, seams, and details—for repeatable performance.

Coastal/UV ready

corrosion-protected mesh (Zn-Al or polymer-coated) and stainless hardware options.

What problems it solves

- Pillowing and gapping in conventional drapes.
- Rock shedding onto the carriageway on rough/stepped faces.
- Shotcrete cracking/corrosion on shallow rock slopes.
- Long, high-carbon shotcrete operations near traffic.

Where it is used

- **Globally stable** rock slopes with raveling blocks, rough topography, minor overhangs, or convex breaks where simple drapery is not enough.
- Highways/rail corridors, portals, wadis, coastal routes—any corridor needing tight containment with limited heavy plant.



System, Components & Benefits



Double-Twist Wire-Mesh Drapery (DTM)

Hexagonal, self-locking mesh panels sized to slope height; supplied with clips/hogrings for seams and optional side ropes.



Rock bolts (3–6 m) with eye nuts

Crest, toe/bench, and intermediate grid anchors; **eye nuts** receive perimeter cables and cross-laced face ropes.



Wire Rope Cables (crest & toe)

Wire ropes threaded through eye-nuts to **close the envelope** and carry boundary loads; clamps/stoppers/ turnbuckles as specified.



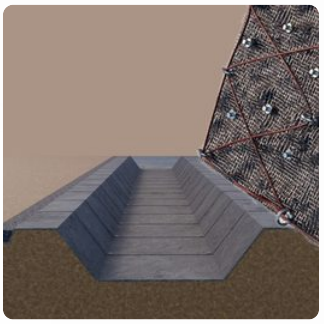
Cross-laced Wire Ropes

Criss-cross rope lattice routed through intermediate eye-nuts to **hold mesh tight** to the face and **share impact loads**.



Edge & seam hardware

Mesh clips/hogrings for laps, side edge ropes (where specified), crest hangers, and terminations matched to cable sizes.



Optional catch-ditch/berm

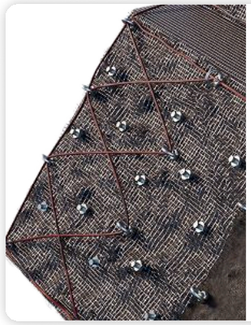
Toe trench/ballast or tie-in to an engineered catch ditch/berm sized to predicted fallout.

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

Benefits at a glance

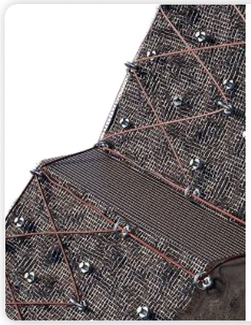
- **Tighter containment** on rough/stepped faces; less pillowing.
- **Clean load paths** via eye-nuts → perimeter cables & rope lattice.
- **Fast, light logistics** versus shotcrete; minimal plant near traffic.
- **Durable** with corrosion-resistant mesh and hardware options.
- **Low life-cycle cost**: quick laced repairs; routine tension checks.

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



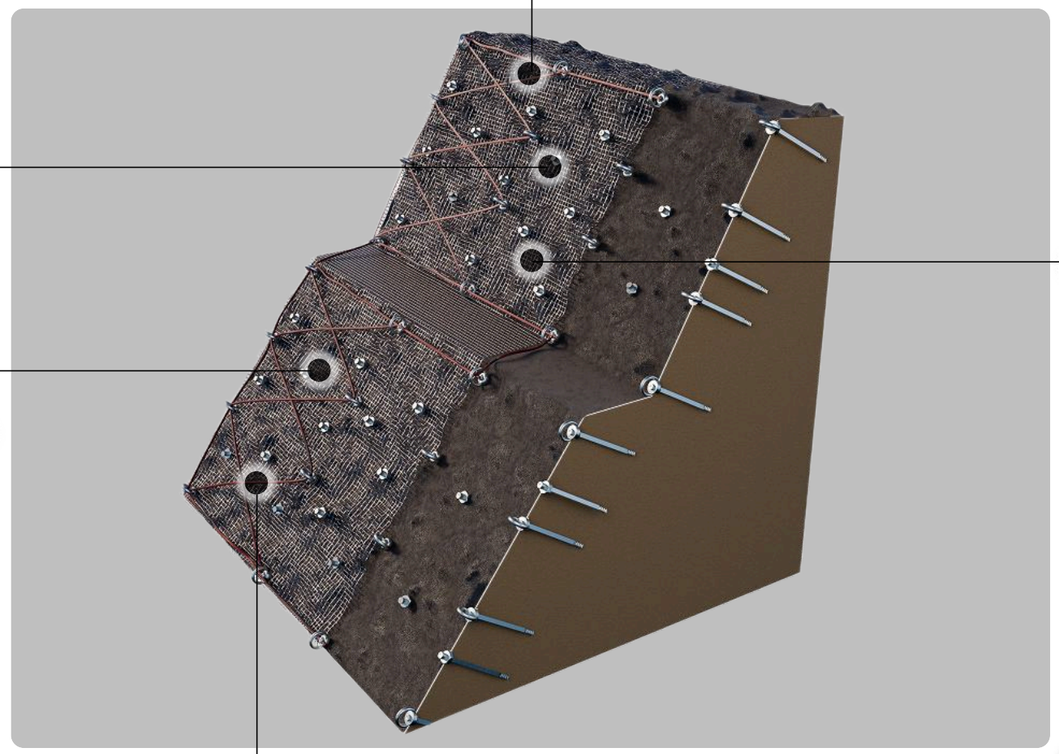
Corrosion-smart Reinforced Mesh Containment

Tensioned wire mesh with internal reinforcement cables, supplied in Zn-Al (optionally polymer-coated) with stainless hardware options for marine sites, holds loose rock and fractured surfaces in place, distributing stress across the slope face and increasing overall containment capacity.



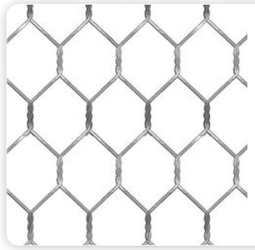
Conformity Control

Cross-laced reinforcement ropes pull the mesh tightly against the rock face, reducing voids, controlling block acceleration beneath the drape, and improving overall capture performance.



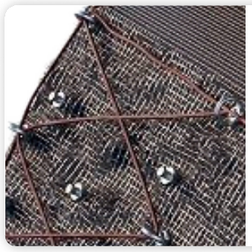
Deep Stability with Rock Bolts and Anchors

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.



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.



Defined, Inspectable Load Paths

A clear load-transfer chain—eye-nut bolts → perimeter cables and lattice ropes → end anchors—ensures predictable performance while making the system easy to inspect, verify, and re-tension.





Performance, SPaaP & Spec Snapshot

Why secured drapery changes outcomes

Conformity = control

cross-laced ropes keep the drape close to the face, limiting block acceleration under the mesh and improving capture.

Non-ravel assurance

double-twist hex mesh maintains integrity if a wire fails—no zipper unravelling.

Reliable, inspectable load paths

eye-nut bolts → perimeter cables & lattice ropes → end anchors; easy to inspect and re-tension.

Fast maintenance

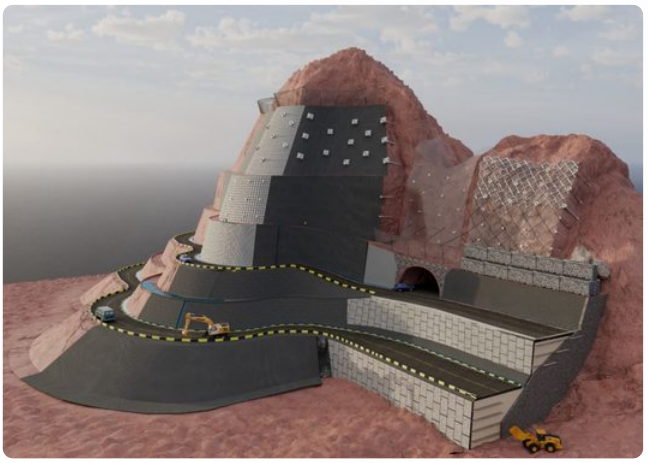
lace in panel repairs; re-tension ropes/cables during routine inspections.

SPaaP — Slope Protection as a Product

- A **matched, factory-specified kit** with one method statement, one trained crew, and a single warranty path.
- **Pre-performance-tested** components that streamline submittals and reduce variability.
- **Compressed schedules** and safer work zones: lighter logistics, fewer trades, shorter closures.

Advantages

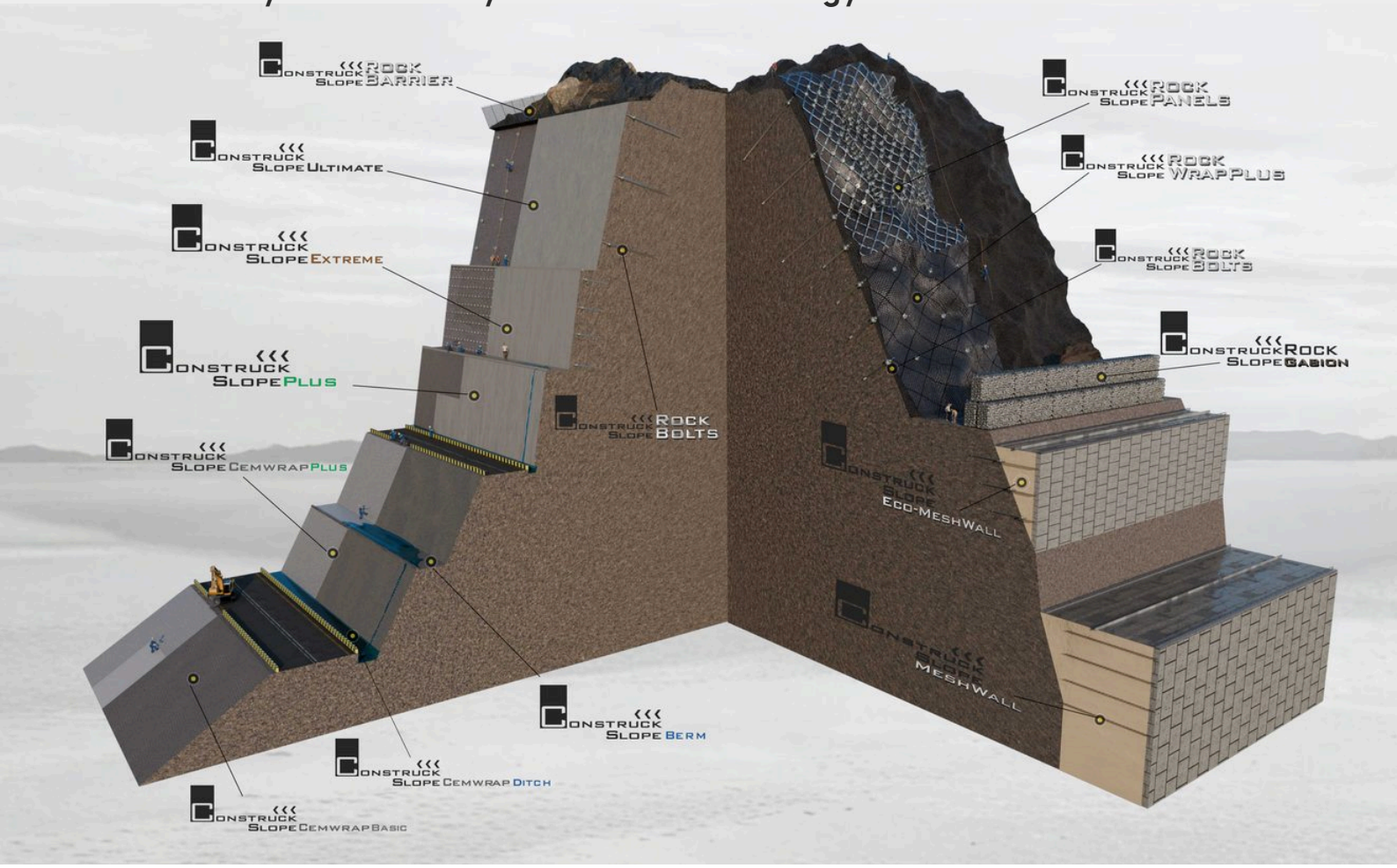
- **Reinforced containment** for rough/stepped slopes (less pillowing).
- **Faster & lighter** than shotcrete; minimal heavy plant near traffic.
- **Coastal/UV durability** with coated mesh and stainless hardware options.
- **Scalable & modular** for portals to tall cuts.
- **Low life-cycle cost** with straightforward inspection and repairs.



Tight, face-hugging control—without the weight of concrete

ConstruckSlope RockWrap Plus delivers reinforced, secured drapery as a ready-to-install **SPaaP** kit—bringing tighter containment, cleaner load sharing, and faster programs to weathered rock slopes where global stability is adequate and traffic safety is paramount.

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



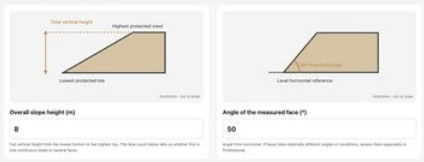
Digital support

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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ProjectSuite

One connected platform.
Support from start to finish.



Actual development workspace / sample records.

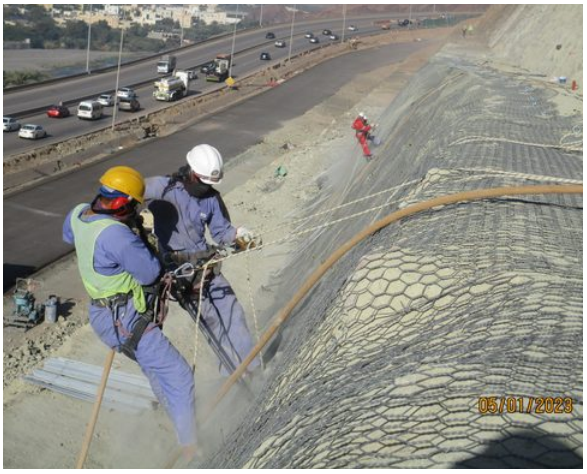
Manufacturer expertise, local support
Connect technical teams and authorised local partners around the selected Construck system.

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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