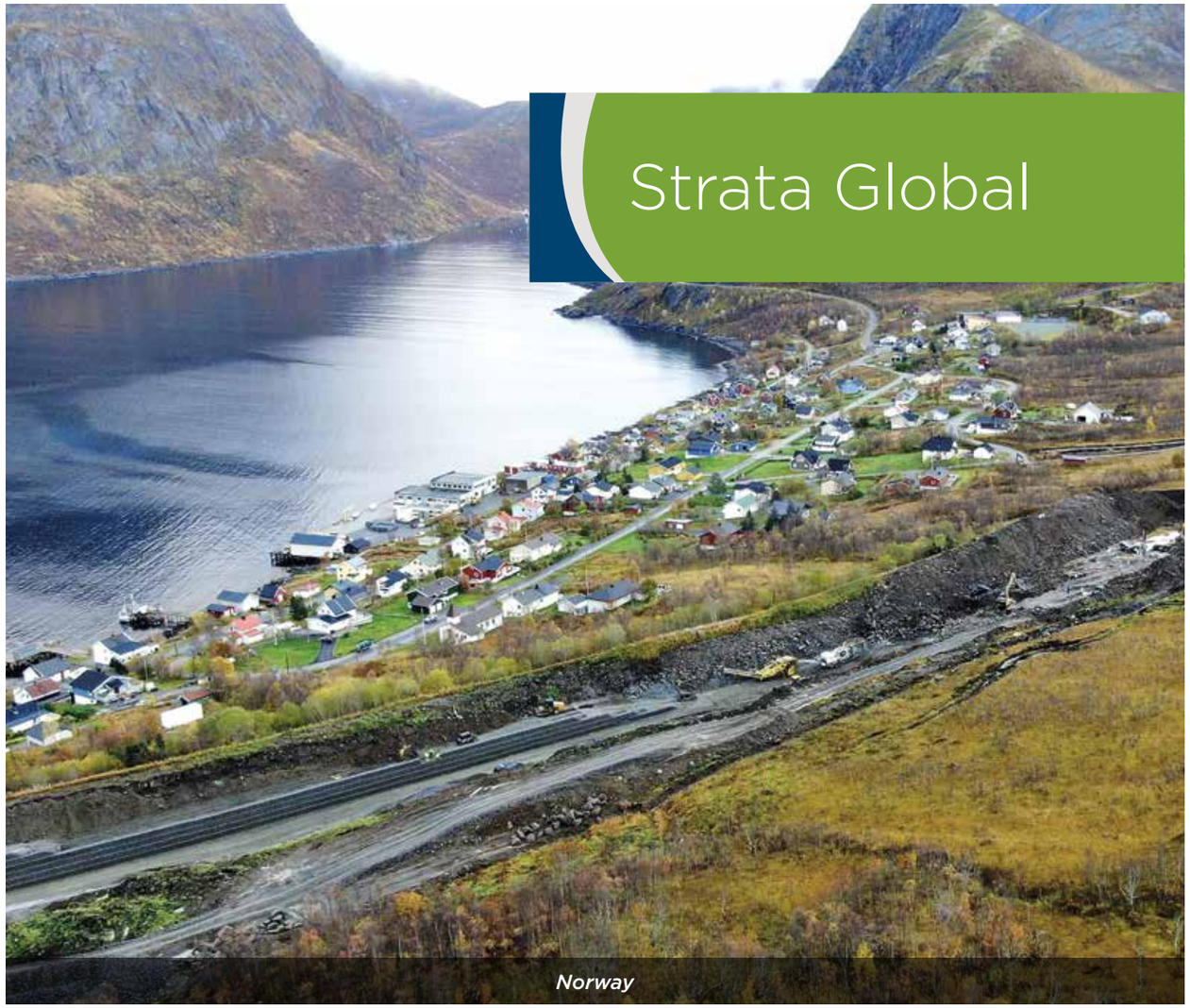
STRATA

Geotechnical Solutions for a Growing World

Strata Global



Norway

Bulgaria

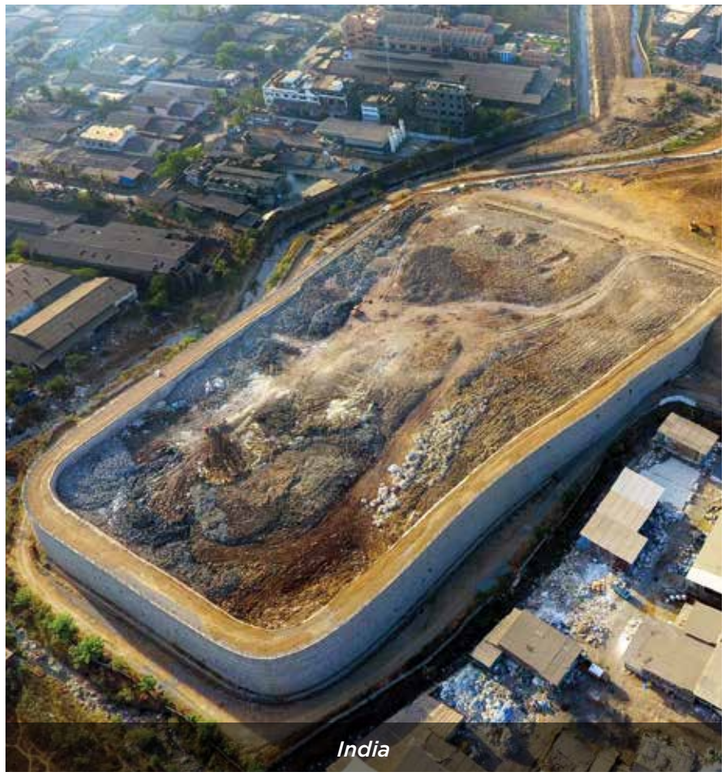
Brazil

USA

New Zealand

Strata is a global leader in geosynthetic manufacturing and geotechnical engineering, delivering innovative products and solutions for an array of site development challenges worldwide.

Strata's products are made according to international quality standards, backed by globally-recognized design, engineering, and technical support services. Strata also offers construction and general contracting capabilities in select global markets.



India

Wales

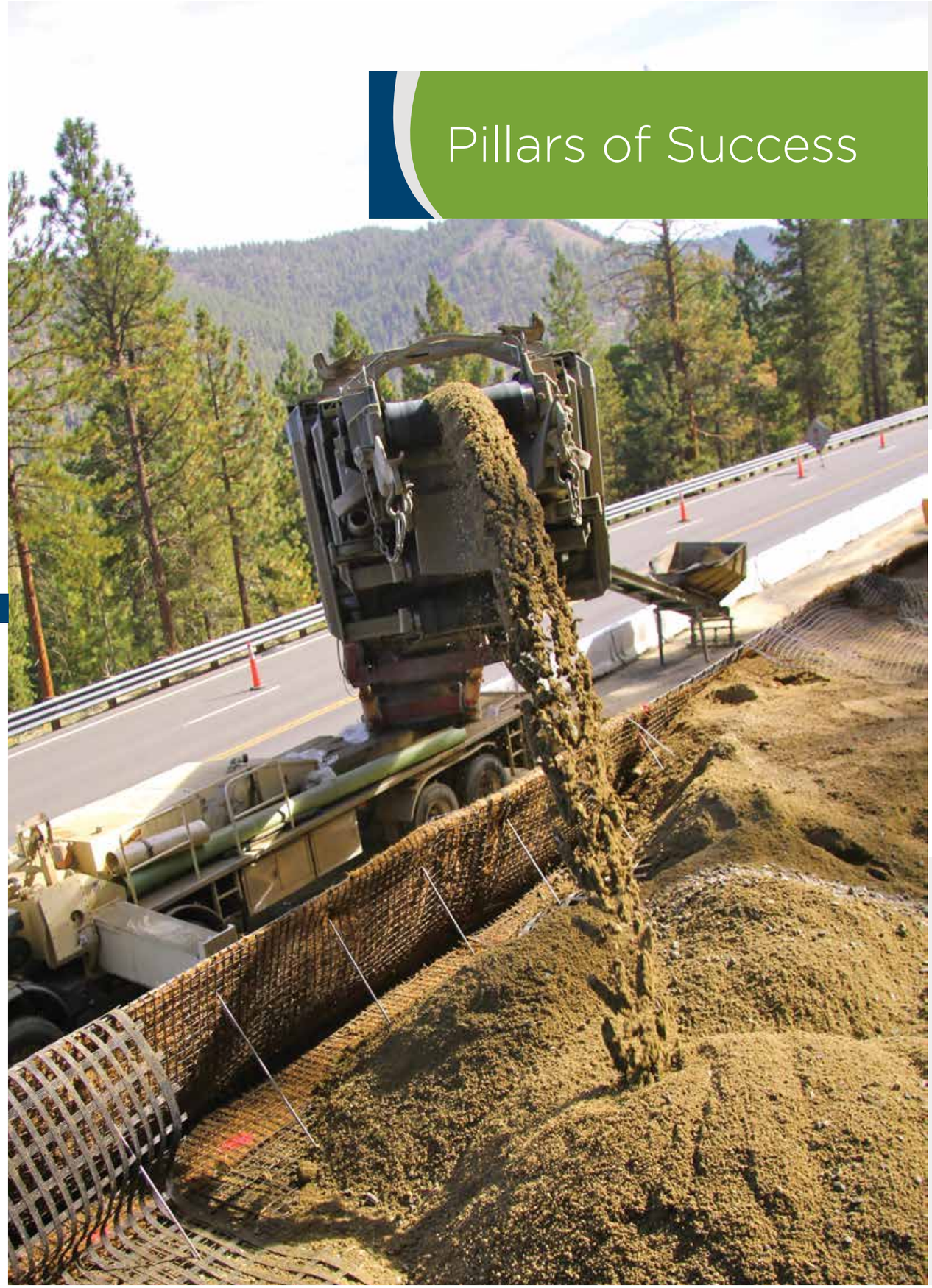
Established 1994

Global Offices

- USA
- India
- Brazil
- U.K.

Certifications

- ISO
- CE
- NTPEP
- GAI-LAP Accreditation
- BBA
- NABL



Pillars of Success

Operational Excellence

- Tested through GAI-LAP accredited laboratories, both in-house and through independent third-party locations:
  - TRI (USA), BTTG (UK), BTRA (India)
- NTPEP certified
- Conforms to ASTM, ISO, and GRI testing standards

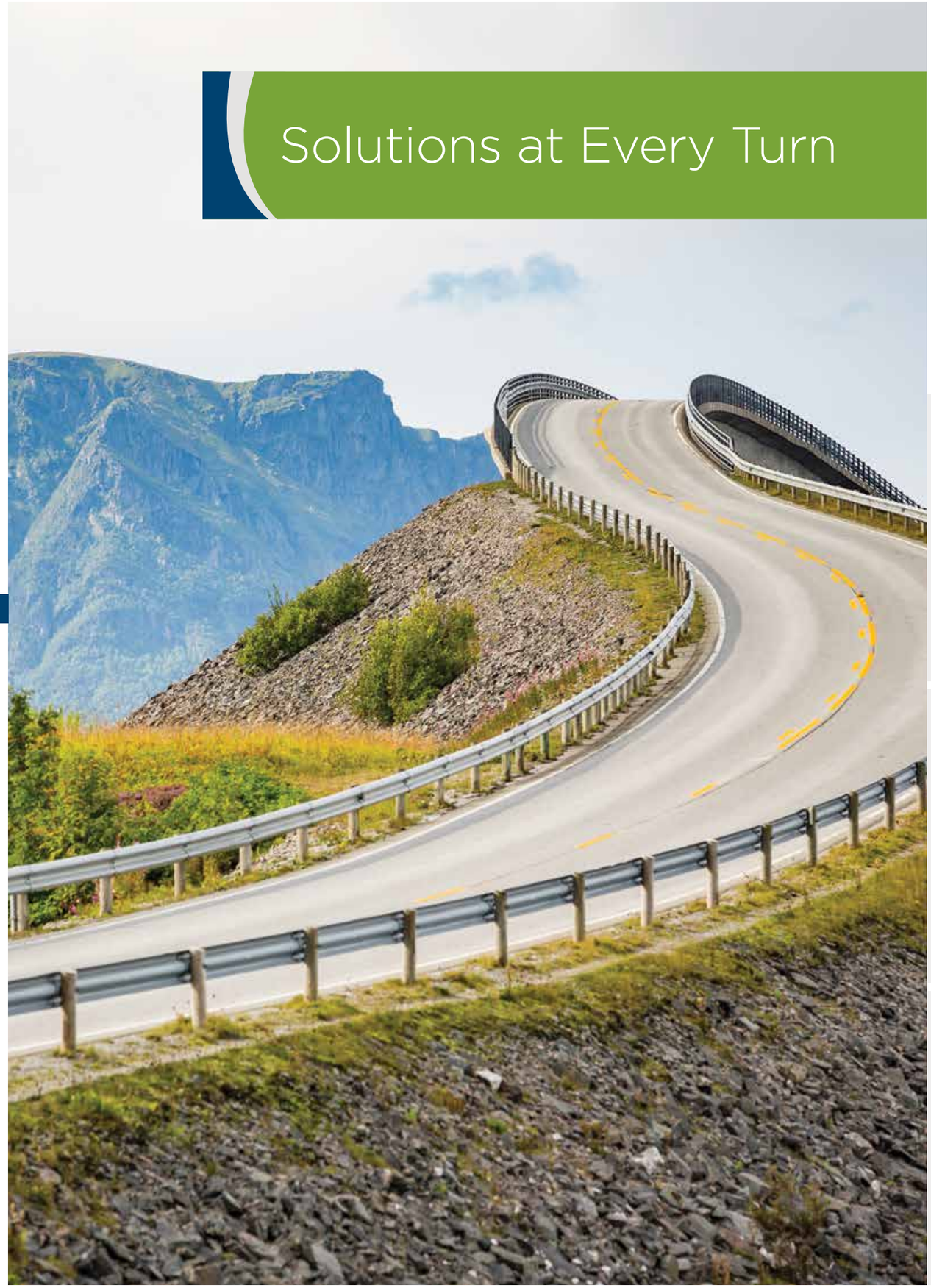
Sustainability

- Committed to long-term sustainability
- Reducing project carbon footprints by saving on concrete, quarrying, and transportation

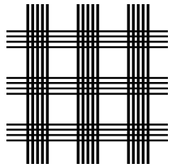
People

- 400+ total associates
- 200 technical engineers
- 35+ technical designers
- Seasoned general and sub-contractors
- On-site supervision available for select projects

Solutions at Every Turn



Products



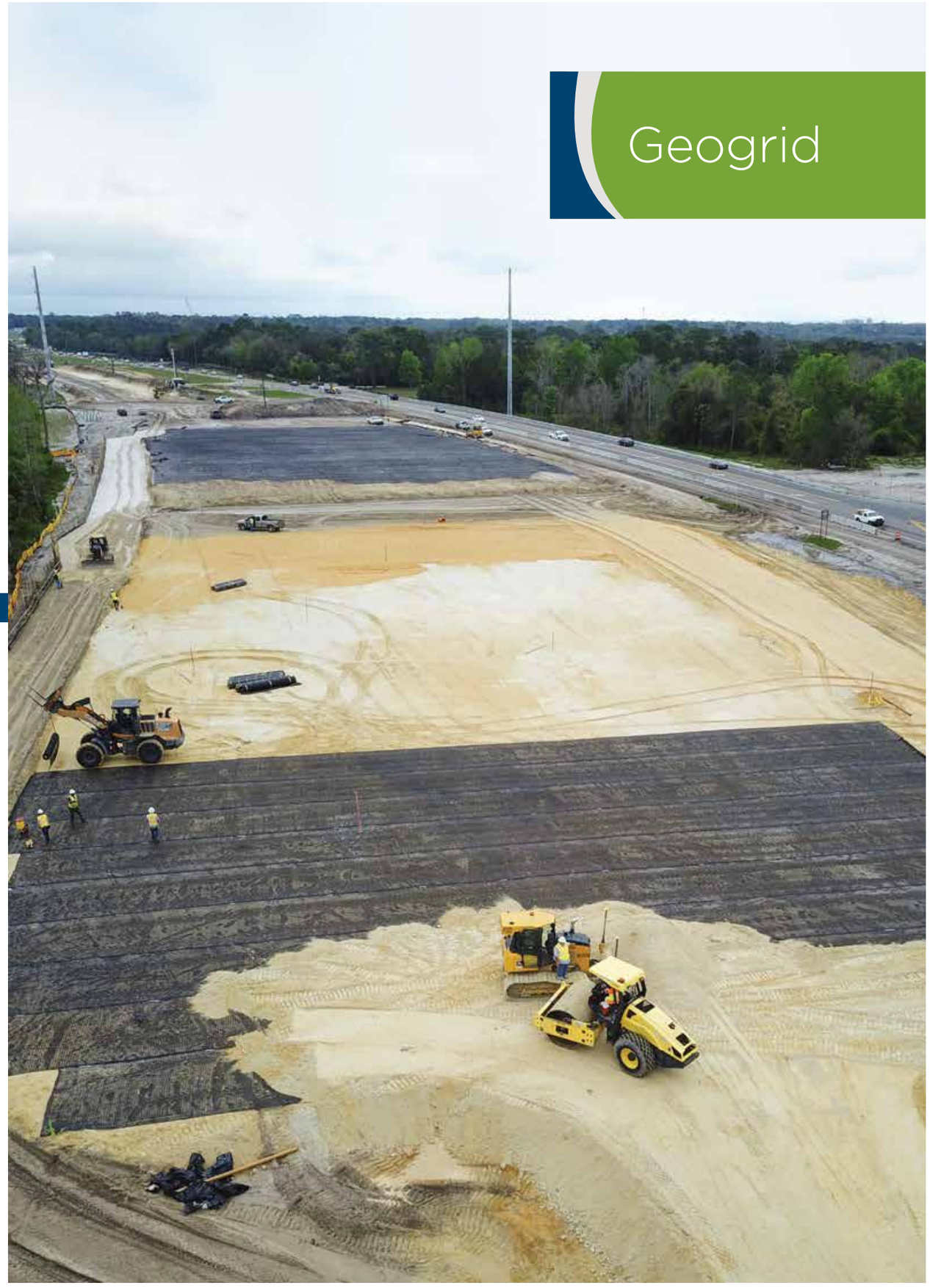
StrataGrid™

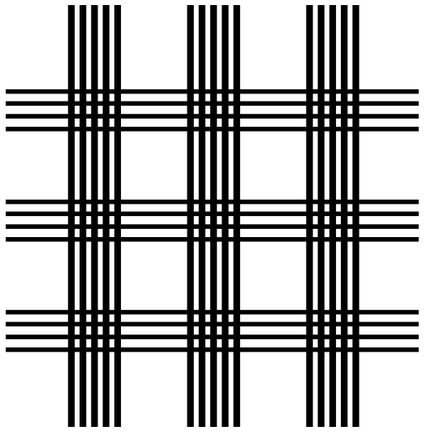
StrataWeb®

Sleeve-It™

Solutions	Function	Application	Sector
Vertical	**Reinforcement**	Retaining Walls	• Highways • Commercial and residential development • Landfill/environmental
Horizontal	**Stabilization**	Embankments/Load Transfer Platforms	• Highways • Mining sites • Landfills • Railways
		Load Support	• Container yards • Crane pads • Loading aprons • Access roads • Parking lots
Incline	**Confinement**	Erosion Control	• Coastal • Channel linings • Landfill (veneer stability/environmental) • Mining • Highway slopes
	Reinforcement	Retaining Walls (<70°)	• Infrastructure • Commercial and residential development • Landfill/environmental

Geogrid



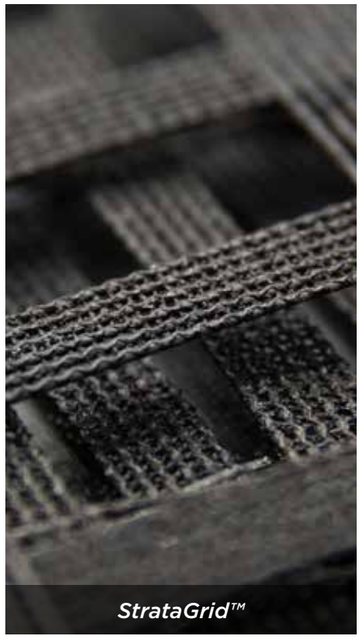


StrataGrid™

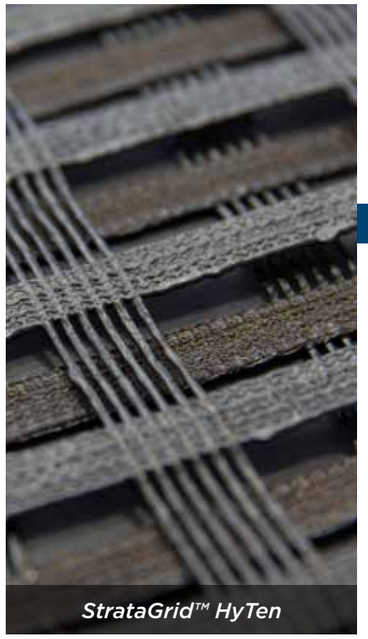
StrataGrid (geogrid) is a high-performance soil reinforcement solution that is produced by knitting high-tenacity polyester yarn into a dimensionally-stable network of apertures to form a geometric grid. StrataGrid's tensile strength and high molecular weight offer both vertical and horizontal soil reinforcement, and its proprietary UV-stabilized coating compound provides enhanced durability against the elements.

StrataGrid provides industry-leading elongation and stress-strain values and guarantees a structure life of more than 100 years.

Geogrid reinforcement can resolve both technical and cost challenges and make previously unusable land usable. One of the most dramatic areas in which this can be seen is in the development of space-saving mechanically stabilized earth (MSE) systems that deliver stronger, more economical infrastructure with less of an impact on the environment.



StrataGrid™



StrataGrid™ HyTen

StrataGrid HyTen is our line of high strength geogrids (>200kN/m or 13,704 lbs/ft tensile strength) used for construction of embankments over soft soil ground conditions. StrataGrid HyTen enables the embankment to be constructed directly on top of organic peat and clay-type soils with safe design methods, and is also used to limit vertical settlements and provide a solid reinforced soil foundation over voids.

Properties/Features

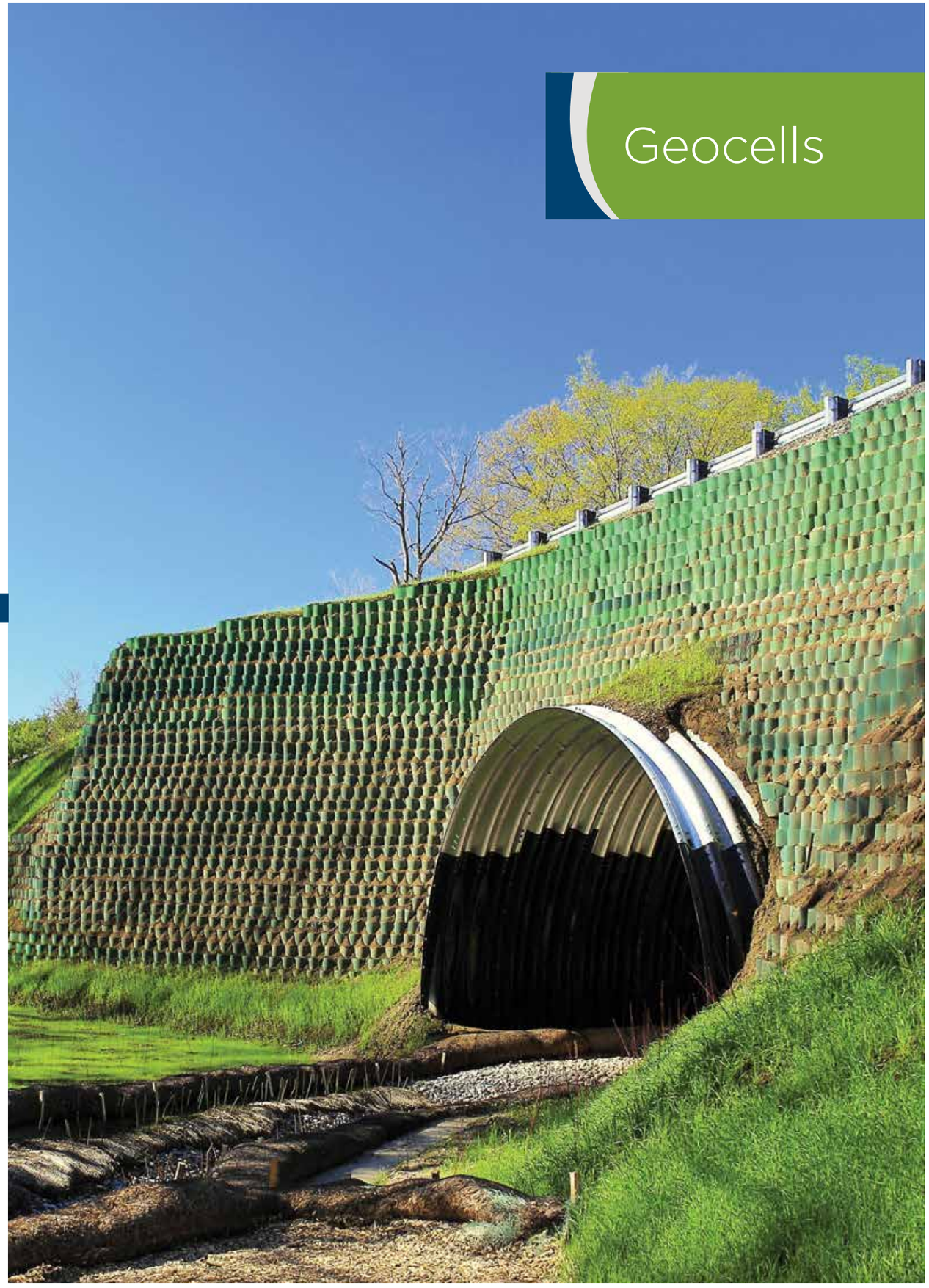
Uniaxial

- Strength: 35kN – 600 kN/m (2,400 - 41,000 lb/ft)
- Widths: 1.9m (6.25 ft), 3.8m (12.5 ft), 5.7m (18.75 ft)

Biaxial

- Strength: 30kN – 100 kN (2,056 - 13,704 lb/ft)
- Widths: 1.9m (6.25 ft), 3.8m (12.5 ft), 5.7m (18.75 ft)

Geocells



StrataWeb®

One of nature's strongest structural shapes is the three-dimensional honeycomb. StrataWeb (geocell) applies this shape to soil reinforcement to solve some of today's most difficult civil engineering problems. The StrataWeb cellular confinement system is used to improve load-bearing capacities, reinforce weak soil foundations, and control erosion on slope surfaces. It can also help alleviate challenges associated with load support over soft soils and erosion on steep slopes, as well as the lining of lagoons, drainage channels, and landfills.

StrataWeb utilizes strips of extruded polymer welded together at intervals that when expanded, form a three-dimensional honeycomb mattress. Filled with granular material, the resulting cellular confinement system efficiently transfers compressive and tensile stresses from heavy loads to provide higher load support capacity than any geosynthetic or geogrid product available.

StrataWeb® Accessories

StrataLock

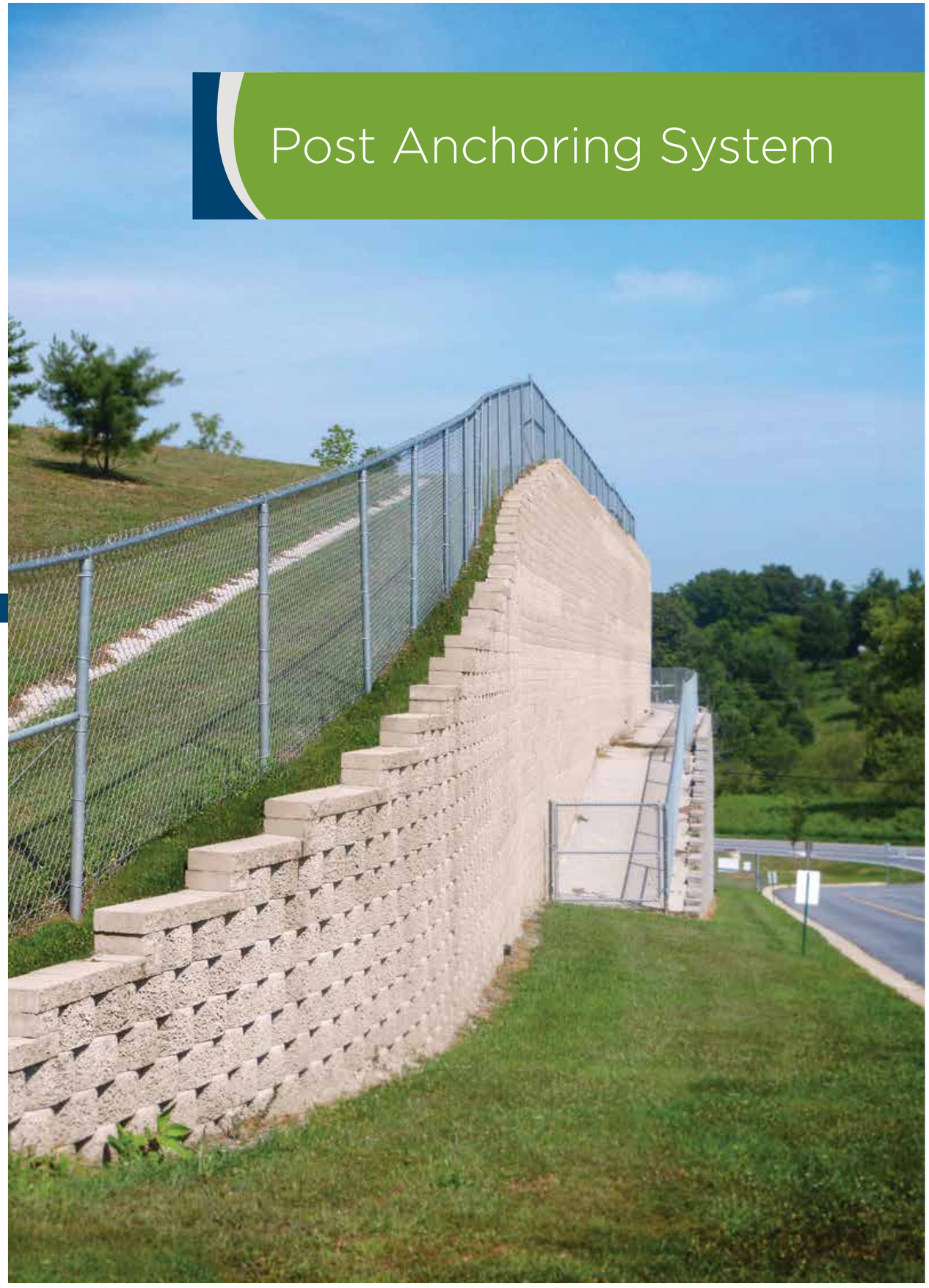
StrataCord

StrataFast

Properties/Features

- Engineered perforations and deep texturing for drainage and friction
- Available in a range of weld strengths depending on site demands
- ESCR performance: Up to 5,000 hours
- Custom sizes available

Post Anchoring System



Sleeve-It™

Sleeve-It is a pre-engineered fence post anchoring solution used to enhance the below-grade foundational stability of fences placed on top of a segmental retaining wall (SRW). Thanks to its patent-pending cantilevered design, the Sleeve-It system allows stable fence footings to be integrated into the support structure of the SRW during construction.

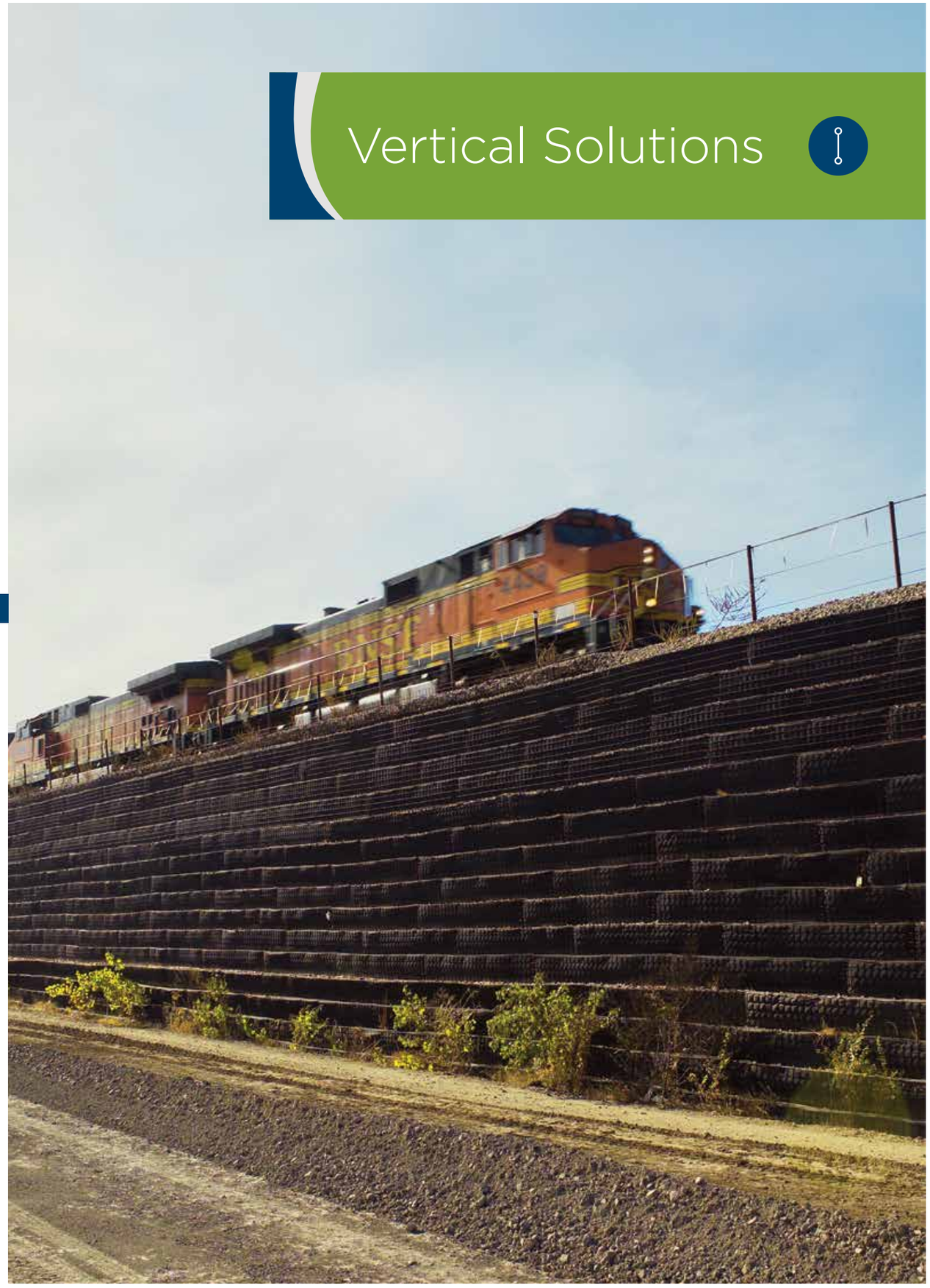
Sleeve-It is compliant with IBC 1015.2, IBC 1607.8.1, and ASCE 7 4.5.1, and it eliminates the offset requirement for rails and fences within 0.91 meters (36”) of the open edge of the SRW. Sleeve-It is easy to stack, store and transport to job sites due to its lightweight, unitary design - reducing stocking space, shipping costs, and labor requirements.

Sleeve-It seamlessly integrates into the SRW construction process, eliminates the hassle of auguring once the wall is complete and accommodates the most common SRW fence types. Sleeve-It is made with nearly 95% post-consumer recycled polypropylene.

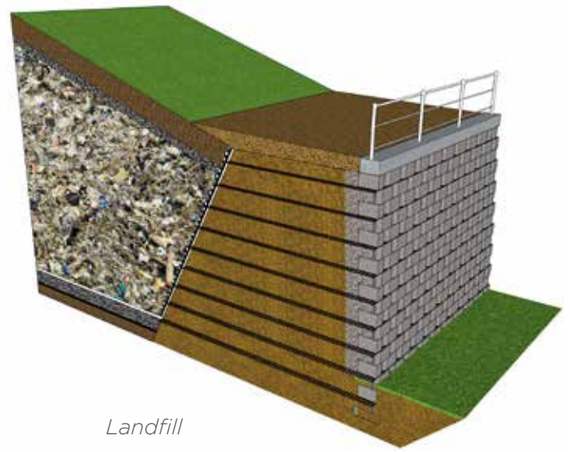
Properties/Features

- Code-compliant
- Maximizes land use
- Stackable and portable
- Easy to install
- Compatible with most fence types
- Made with recycled materials

Vertical Solutions



Highway



Landfill

Vertical Containment

Function

Reinforcement

Application

Strata's product line delivers engineering and aesthetic solutions for permanent retaining walls faced with either indigenous vegetation or crushed stone. The combination of Strata's system of geogrid with welded wire provides long-term stability. StrataGrid also reinforces permanent Segmental Retaining Walls using concrete blocks. For construction projects with temporary retaining walls, Strata provides geogrid-reinforced wire-faced shoring walls.

Sectors

- Highways
- Commercial/residential development
- Landfill/environmental

Benefits

- Maximize available land space
- Up to 20% cost reduction vs. conventional methods
- Significant environment savings
- Design adaptation to project-specific challenges

StrataBlock™

A modular precast concrete block fascia that provides 100% soil coverage along with StrataGrid

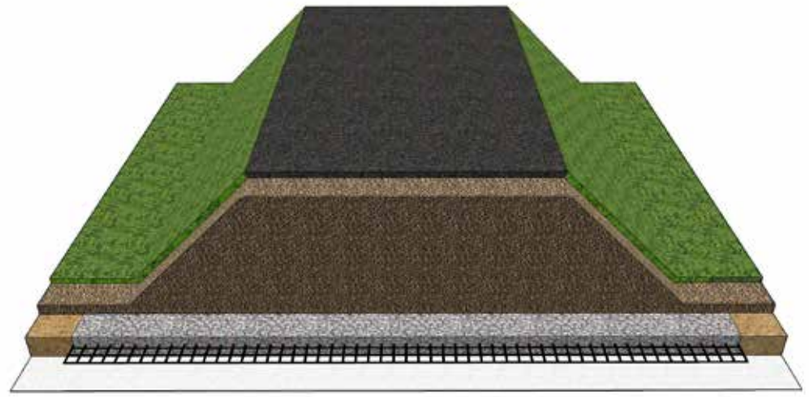
StrataWall™

A precast concrete panel wall fascia providing a strong connection between StrataGrid and wall panels

Wire Baskets

A steel-basket fascia where you can opt for a stone or green finish

Horizontal Solutions



Embankments

Function

Stabilization

Application

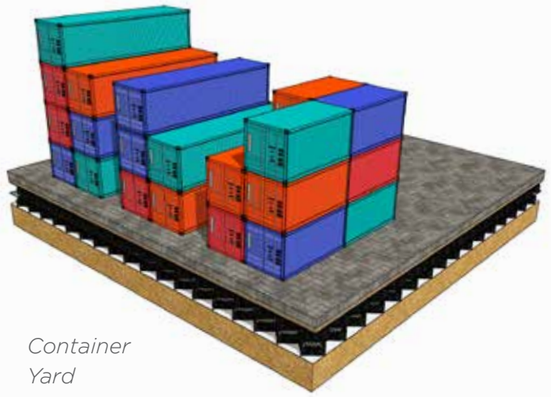
Strata's embankment stabilization solution uses StrataWeb and Strata HyTen products to distribute heavy loads uniformly over a large area to reduce subsoil embankment pressure. It offers a cost-effective reinforced soil foundation to allow the embankment to be constructed directly on top of very weak soils, such as organic peats and alluvial clays, while following global design methods.

Sectors

- Highways
- Landfills
- Mining sites
- Railways

Benefits

- Improves load-bearing capacity to allow structures to be built on embankments
- Reduces differential settlements
- Ability to utilize high embankments with lateral pressure



Container Yard

Paved/Unpaved Roads

Pavements

Function

Stabilization

Application

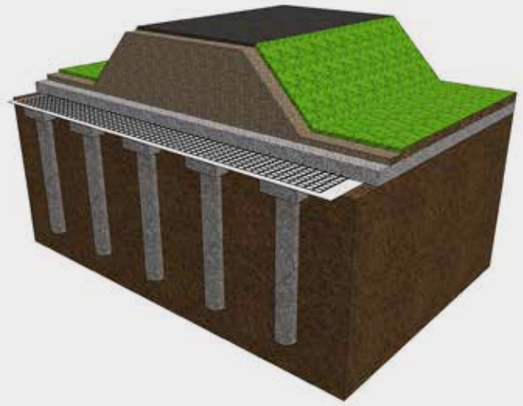
Strata offers a wide range of reinforcement options for the construction of roads and railroads where subgrade soils need further stabilization. Strata's products confine and reinforce the fill while increasing the load-bearing capacity of the underlying subgrade, offering up to a 50% increase in the structural performance of the roadway. Strata products have provided stabilization and improved haul roads, airport runways, railroads, and paved and unpaved roads.

Sectors

- Roads
- Mining sites
- Container yards

Benefits

- Reduces operational costs significantly
- Optimizes sub-grade designs by minimizing use of expensive material
- Improved connectivity efficiency
- Exceptional turnaround time for trucks and containers transporting time



Benefits

- Highly effective over soft soils
- Very cost-effective compared to other methods
- Transfers embankment loads uniformly

Load Transfer Platforms

Function

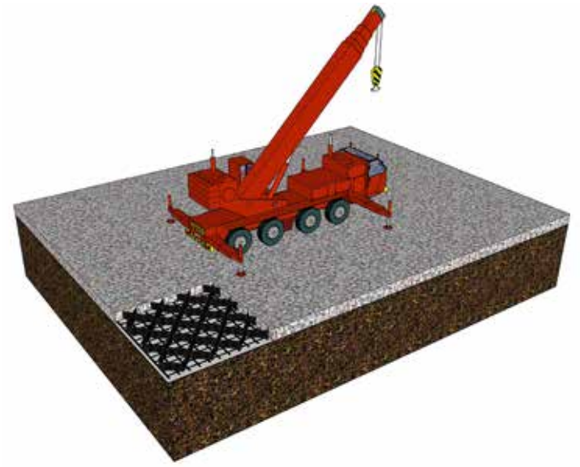
Stabilization

Application

StrataGrid & StrataGrid HyTen reinforcement can be used at the base of an embankment constructed on soft soils, along with added support from piles. These products help improve the long-term stability of the embankment by transferring the loads from embankment to the piles and optimizes the pile spacing. They are used to limit vertical settlements when there is rapid, full-height construction required.

Sectors

- Highways
- Railroads



Benefits

- The amount of infill material is reduced to less than 50% of the conventional method
- Significant cost and construction time savings
- Long-lasting with minimal maintenance

Working Platforms

Function

Stabilization

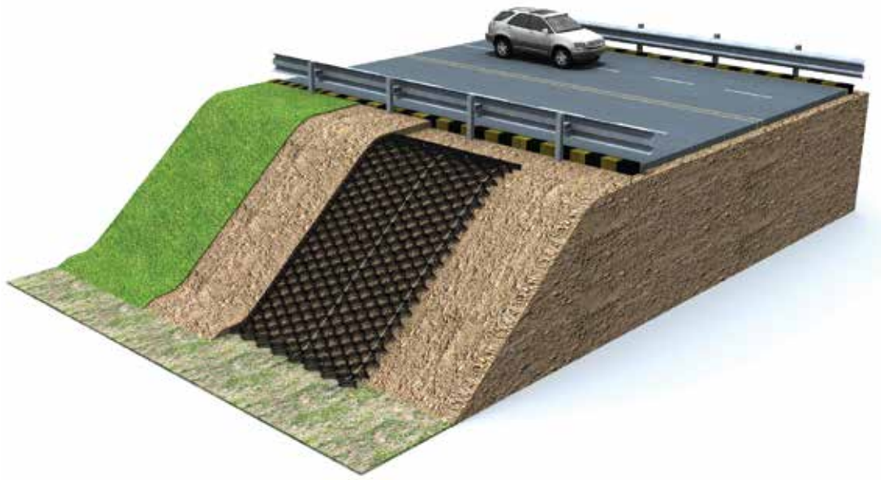
Application

Oil and Gas drilling pads are often constructed with a thick filling of dense quality soil to ensure load transfer and minimum deformations. These drilling pads can be constructed using locally site-won material with StrataWeb geocell and StrataGrid geogrid as reinforcement.

Sectors

- Oil & Gas
- Energy
- Industrial developments

Incline Solutions



Erosion Control

Function

Confinement

Application

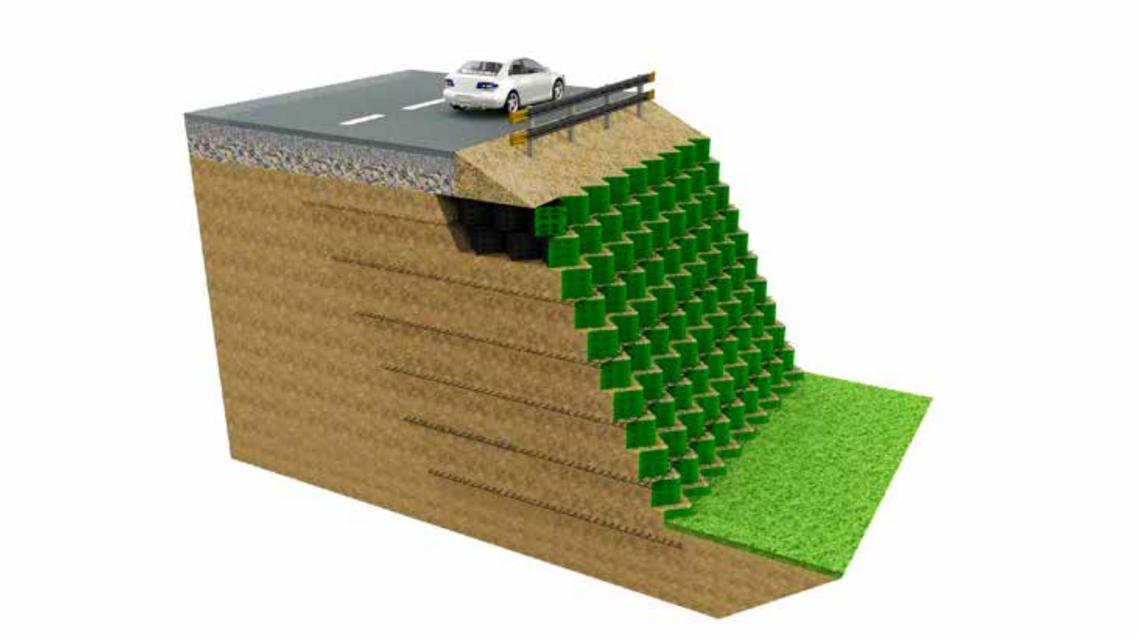
Strata's incline solutions help prevent slope erosion by effectively confining the upper infill along the slope. Strata provides a number of products to help safeguard your project from common erosion problems, and with our expertise in soft soil stability, Strata products can minimize the effect of erosion and provide permanent protection.

Sectors

- Coastal
- Channel linings
- Landfill (veneer stability/environmental)
- Mining
- Highway slopes

Benefits

- Cost-effective compared to quarrying and stone-pitching
- Minimal maintenance required
- Use of locally available aggregate



<70° Retaining Walls

Function

Reinforcement

Application

Strata recognizes that maximizing land use is critically important to every site development project, and resolving grade change issues on site is becoming increasingly vital as land costs increase.

StrataGrid, combined with traditional erosion protection products and vegetation, provides a cost-effective and technically-sound solution for severe slope challenges, problematic soil conditions, and other land development issues.

Sectors

- Infrastructure
- Commercial/residential development
- Landfill/environmental

Benefits

- Maximize land space in areas with varying grade changes
- Ability to build on structures in hilly areas
- Aesthetic finish options available

From Soil To Structure

STRATA

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