



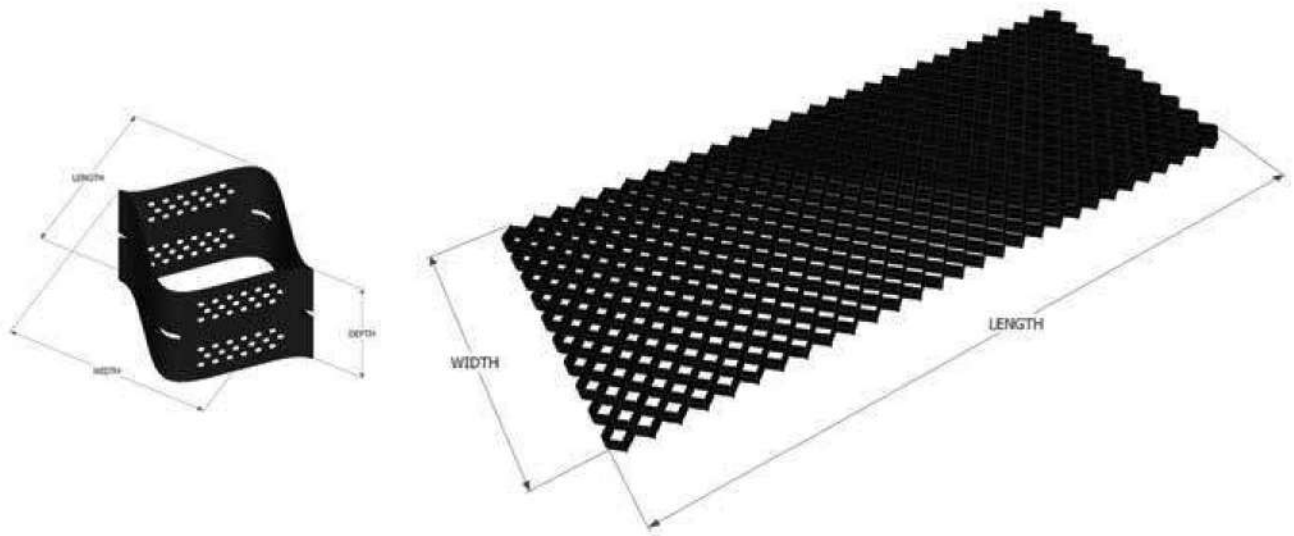
## Shahriyar Baspar Arian

The honeycomb that reinforces and strengthens soil.

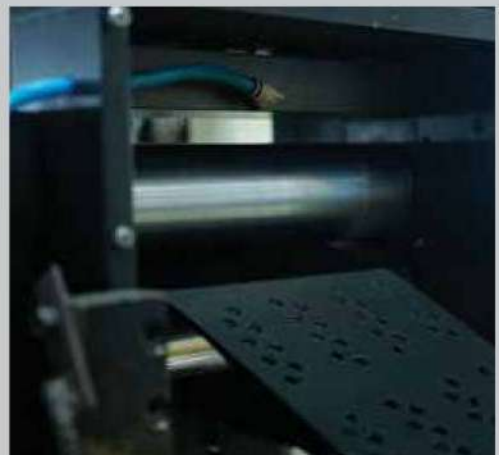
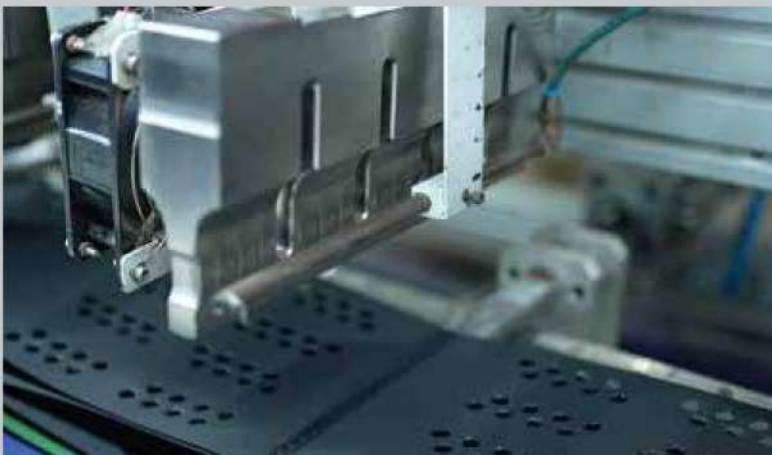


# Overview

Shahriyar.B.A is a unique, versatile, lightweight but strong three-dimensional cellular confinement system. Geocell technology, exemplified by the groundbreaking Shahriyar.B.A system, harnesses the inherent strength of the three-dimensional honeycomb structure found in nature. This innovative approach to soil reinforcement tackles some of the most complex civil engineering problems, including load support over soft soils, erosion control on steep slopes, and the lining of lagoons, drainage channels, and landfills.



Shahriyar.B.A utilizes interconnected strips of polymer, meticulously welded together at intervals to form a robust and flexible mattress. Filled with granular material, the resulting cellular confinement system efficiently transfers compressive and tensile stresses from heavy loads, providing higher load support capacity than any other geosynthetic product available.



# Sectors and applications



## Highways:

Embankment, slope erosion protection, basal reinforcement, drainage/canal lining



## Paved and unpaved roads:

National and state highways, service roads, urban roads, road rehabilitation



## Ports:

Access roads over coastal marine clays, container yards, platforms and truck terminals, quay-side structures, canal lining



## Landfills:

Access roads, protective vegetative capping over geomembranes, slope lining (municipal solid wastes/hazardous waste/mine tailing)



## Canals and reservoirs:

Canal and reservoir linings, ash pond lining





## Railway permanent ways:

Ballast and sub-ballast confinement, basal reinforcement for embankments, erosion control



## Defence solutions:

Desert paths, bunker/hanger camouflage systems, blast-proof walls, anti-tank barriers



## Mines, oil and gas, energy and industrial projects:

Heavy haul roads, laydown areas for heavy equipment, supports for heavy crane movement and outriggers, raw-water reservoir linings, ash and mine tailings dykes, slope erosion protection, coal-stacking yards, pipeline support structures, tank and tank-pad foundations, wind energy generator foundation protection, loading / unloading terminals and depots, grade slabs, mine overburden dumps



## Townships/SEZs:

Construction access roads, parking lots, paved roads, landscaping, slope protection, retaining wall



## Emergency solutions:

Rapid access roads, flood protection, slope protection and other disaster management applications, rapid mobilization systems

# Certifications

**GAI-LAP**



IS 17483 :  
PART 1



CM\L-  
7100035688

IS 17483 :  
PART 2



CM\L-  
7100035587



# Accessories

Shahriyar.B.A Fast™ | Shahriyar.B.A Lock™ | Shahriyar.B.A Cord™



# Design life - Over 100 years



The cellular profile confines the infill and movement of particles, thereby preventing spreading of the material and thereby preventing erosion by means of confinement.



It spreads imposed loads over a wider area and thereby enhances load carrying capacities of weak subgrades.



It can be rapidly installed as compared to conventional solutions.



Comes in a collapsed flat pile of straps which is easily and economically transported.



Once placed, the system requires marginal maintenance, if any, over long-time intervals. This reduces life cycle costs.



Using locally available infill material for an engineered solution with Shahriyar.B.A can bring down the overall solution cost.



Shahriyar.B.A helps foster green solutions for slopes and reduces carbon footprint by minimizing logistics.



# Shahriyar.B.A support services

## Professional solutions

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Our International Support Services Team addresses the evolving needs of the infrastructure sector. We provide an eco-friendly and cost-effective geotechnical solution.

With a broad spectrum of innovative, high-quality products, precision-engineering, and timely, failsafe installation, surpassing customer expectations has become part of the course at Shahriyar.B.A .

Sh.B.A`s out-of-the-box problem-solving dexterity has pushed the boundaries of what is possible and performed engineering feats as diverse as using our products.

Beyond supplying quality products and designing innovative engineering solutions, Sh.B.A also offers fully integrated construction capabilities, and specialized contracting in select global markets.

## Design, applications and supply

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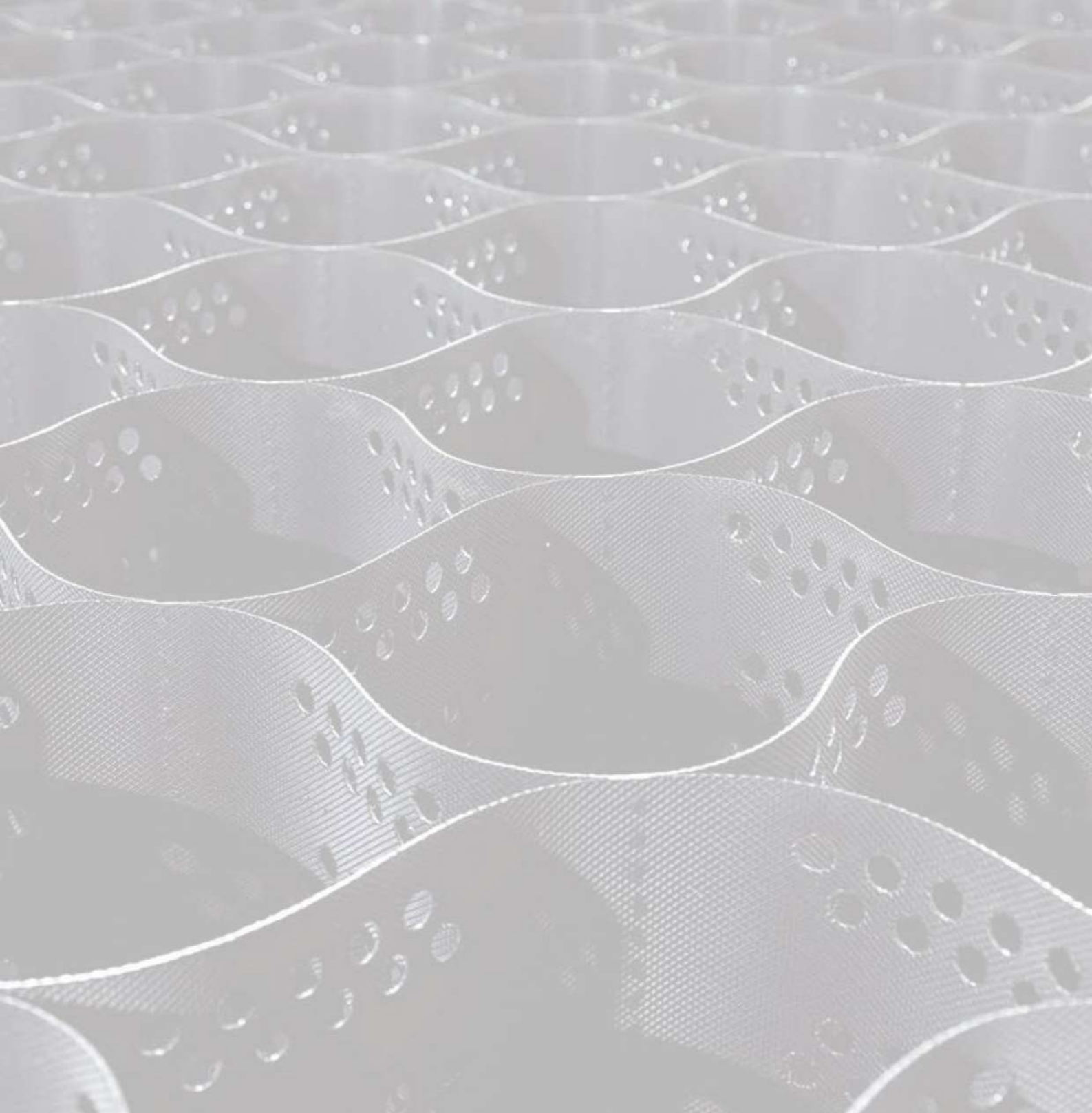
Sh.B.A not only provides geotechnical products, but our team of engineers help you with your turnkey project by supplying you with technical knowledge and support as to how our products can help you finish your projects on time while keeping costs down.

## Comprehensive and in depth

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To ensure smooth installation of Sh.B.A products, our team is available to offer full technical guidelines like site specific method statements, tender proposals and documents, and a wide range of case studies and independent certification documents.





## Shahriyar Baspar Arian

[www.shahriyargaspar.com](http://www.shahriyargaspar.com)

[info@shahriyargaspar.com](mailto:info@shahriyargaspar.com) | 021-88009861 | +989120204952

Shahriyar Baspar Arian – Office: Unit No.5, Third Floor, No.67, Qods Mirheidari Alley, Azimi Ashk Shahr Street, Yousef Abad Neighborhood, Tehran, Iran.

Shahriyar Baspar Arian – Factory No. 1: End of Moallem Street, Seifollahi Street, Amiriyeh Industrial Town, Shahriyar County, Tehran, Iran.

