

Geoparsian (Geo Shabakeh Parsian Company)

Geoparsian is one of the most successful members of Ghadi Holding, that was founded in 2006 with the aim of gaining the top positions in production and engineering services in the field of geosynthetic products. The management of the company benefits from over 25 years of experience in the field of economic and international activities and over 15 years of experience in technical and engineering services.

Additionally, the research department of the company is formed by the highly trained experts specialized in areas such as research, production, design, and engineering on the implementation of geosynthetic systems by the GEOPARSIAN company on site.

GEOPARSIAN has put out significant investments in purchasing all equipments and machinery from Germany while acquiring technical knowhow for its production.

This is for pursuing the goal of providing necessary and self-sufficient development projects for the country and for being able to attend engineering projects of the world markets.

Geoparsian Team does its best to comply with the world quality standards of production, design services, and after-sales support.

Our company produces more than 40 types of geosynthetic products, such as mono and Bio-axial polyester geogrid with tensile strength of 20 to 400 kN/m, fiberglass geogrids with bitumen coated fiberglass geocomposite, several kinds of geotechnical and polyethylene rockshield and various types of geocomposites with polyester fibers and geotextiles.

During the years of our activity, we have supplied these products to hundreds of projects developed both by us and contractors. Hence, we can proudly state that our products are used in the infrastructure of all parts of Iran as well as in several projects internationally.

Geoparsian

- Won the award of "Role Model Manufacturer" on 2016;
- Obtained a standard certificate from the Industrial Research Organization of Iran;
- Obtained approval from the world's most accredited laboratory of geosynthetic products, TBU Lab and the reputable laboratories of Iran;
- Obtained the certificate EN ISO 9001 (2008; 2015) from the German TUV NORD Institute of design production, and management department.

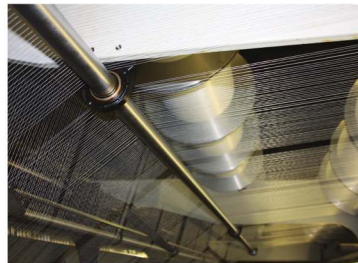


Specialized and Engineering Services

GEOPARSIAN's design team is relying on the valid regulations of FHWA, AASHTO, and it uses software programmes such as MSEW, ReSSA, and Plaxis to implement plans and financial appraisals. GEOPARSIAN's design team provides specialized and optimal design of geosynthetic systems, shares outstanding technical knowledge, and provides the best engineering solutions according to the specific requirements of each project. In addition to developing and designing construction projects, GEOPARSIAN has the ability to support contractors in the sphere of supervisory engineering in order to control, enhance, and execute projects using geosynthetic materials.

Service and Support

GEOPARSIAN's Textile and Polymer laboratories, thoroughly control raw materials and end products according to the parameters of the existing standards. Therefore, GEOPARSIAN is advantaging from the best raw materials, highly-experienced teams, and superior machine technologies to be able to produce their products in accordance with the world's highest standards.

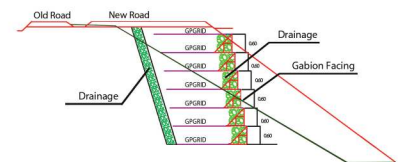




■ Haraz road widening on the way from Tehran to Caspian Sea

GPGrid _ Geogrid

- Limited creep effect
- Easy and fast installation
- Optimal grid opening size
- High tensile strength in low elongation
- High resistance to installation damages
- High resistance to chemical and environmental agents
- Maximum interaction with surrounding soil and high resistance against pullout



Road Widening Cross Section



■ Haraz road widening – Polur



■ Chamran Highway in Tehran

GPGRID _ Geogrid

- Road widening
- Railway construction
- bridge ramps reinforcement
- Retaining walls and bridge abutments
- Stabilization of embankment of landslide and buoyancy
- Improving the bearing capacity of loose and unstable soils
- Avoiding of river shore erosion using Geogrid retaining walls
- As an alternative to all retaining wall systems just like reinforced concrete walls, masonry walls, gabion walls and steel strip reinforced walls with different facing types suitable for project conditions



■ Janbazan Retaining walls in Karaj



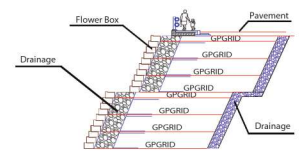
■ Mohammad shar Underpass in Karaj



■ Farahzad Valley in Tehran



■ Chamran Highway in Tehran



Urban Road Cross Section



■ Roshan Darreh Tehran – Shomal freeway to Caspian Sea



■ Mokhaberat Tower Retaining wall in Tehran



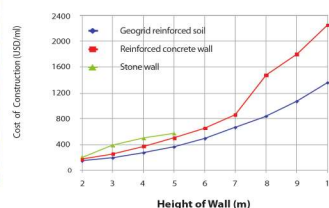
■ Mokhaberat Tower Retaining wall in Tehran



■ River Shore protection in Founan City

Advantages of GPgrid wall construction

- Economical advantage from 30% up to 60% comparing with other solutions
- Faster construction activities
- Less stringent requirements on fill material and borrow
- Possibility of using in situ soil sources
- Better use of space and avoiding right of way conflicts
- Reduction of borrow material consumption
- Excellent performance against seismic forces
- No need to construct foundations
- Possibility of using different options of facing
- Environmental friendly structure



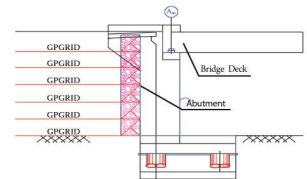
	Stone retaining wall	Reinforced concrete retaining wall	Geogrid Reinforced soil retaining wall
Max height	5m	12m	No Limit
Construction speed	Low	Very low	High
Cost	Expensive	Very Expensive	Inexpensive
Performance difficulty	Medium	High	Low
Stability against earthquake	Low	Medium	High
Flexibility	Sensitive	Sensitive	Inertive
Facing variety	No	No	Yes
Foundation	Yes	Yes	No



■ Bakeri highway interchange in Tehran

GPGrid _ Geogrid

■ Geogrid reinforced walls can be used in bearing and non-bearing bridge abutments. It is very important to do a precise calculation when designing a bearing abutment as it should also handle a portion of the load exerted by the bridge deck.



Bridge Abutment Cross Section



■ An interchange in Bakeri highway in Tehran



■ Mahshahr Airport interchange



■ Mohammad Shahr Metro Interchange



■ An Interchange in Gilan



■ soil stabilization - United Arab Emirates



■ soil stabilization - United Arab Emirates



■ soil stabilization in khor Jafari

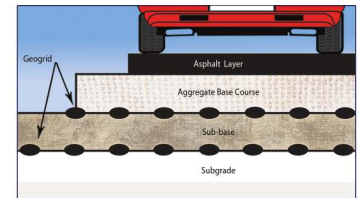


■ soil stabilization in Baku-Azarbaijan

GPCSoil _ Geocomposite

GPGrid2BX _ Geogrids

- No necessity for deep excavations.
- Simple and easy construction method.
- Fast and construction sequence.
- Economical Solution
- Gaining even settlement under roads and foundations where total settlement is unavoidable with simple methods.



Application of Gpgrid in base reinforcement and subgrade improvement



■ soil stabilization in Baku-Azarbaijan

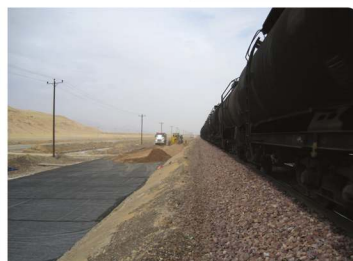
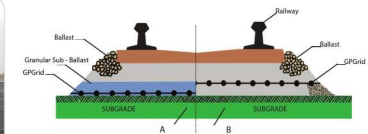


Usage and advantage of GP-Grids in ballast layer

- Satisfaction of economic approach of the project.
- Increment of ballast mechanical life time.
- Reduction of changes in ballast grading.
- Reduction of maintenance frequency down to 3 times.
- Reduction of the rate of ballast settlement.

Use GP-Grids in sub-ballast layer results in:

- Reduction of subgrade excavation
- Reduction of spoil disposal of excavation
- Reduction of sub-grade embankment volume
- Raise of bearing capacity of sub-ballast.





GPCAsphalt _ GeoComposite

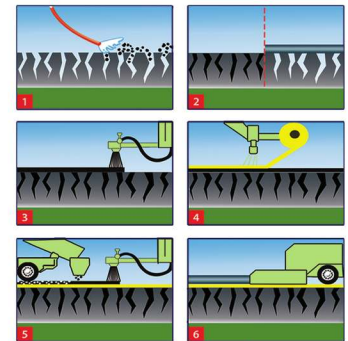
- Prevention of reflective cracking and reduction of asphalt thickness in overlay construction. The amount of tack-coat to be applied on the surface is 1.1 to 1.3 kg/m². The material used for tack-coat is emulsion or pure bitumen, therefore flushing does not happen. On the other hand the retained bitumen inside Gpcompo forms a sealing layer and does not let water goes through sublayer.

Properties and Advantages of GPCOMPO in Asphalt Layer Performance

- Postpones movement of reflection cracks to new overlay
- Produces adhesion between new and old asphalt
- Working as stress relief layer by distributing the load
- Omits the need of asphalt mealting and deep patches
- Reduces thickness of new pavement and overlays
- Quick and easy installation
- Omits water penetration to sublayers of pavement
- Increases service lifetime



Asphalt By GPCompo in Dezful Airport



Installation Method

GPCAsphalt _ GeoComposite

This product consists of a layer of an asphalt geotextile which is reinforced with glass fibers and is used for reinforcing and sealing asphalt layer; consequently, delaying the movement of the reflection cracks to the surface of new pavement. This product has tensile strength of 50 to 200 kN/m at a width of 1.90, 3.80 and 5.40 m.



ASPHALT GPTEXTILE AR

This product is made of high melting point polypropylene fibers and absorbing bitumen. Also it is suitable for increasing the lifetime of asphalt layer. This specific product has tensile strength of 10kN/m and weighing 140g/m2.



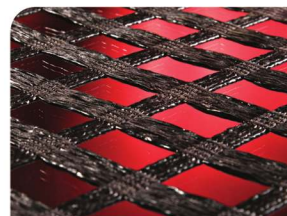
GPAsphalt _ Geogrid

This product is made of polyester fibers with a bitumen coating and is used to strengthen the asphalt cladding consequently, delaying the movement of reflective cracks towards the new pavement.



GPGrid _ Asphalt NW

Made of fiberglass with a bitumen coating, using for strengthen the asphalt overlay; consequently delaying the movement of reflective cracks towards the new pavement. This product is produced with tensile strength of 30 to 100kN/m.



GPGrid2BX _ Geogrids

This product is made of polyester fibers in mono and bio axial manner with a width of 5.30m with tensile strength of 20-400 kN/m.

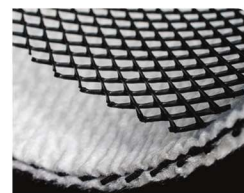
GPCSoil _ Geocomposite

Combination of a geotextile and polyester fibers which is used for increasing the load capacity of the loose & muddy soil as well as for reinforcing of fine-grained soils.



GP Drain

Consists of a layer of GPNet that is located between two geotextiles. This product is used for the drainage behind the retaining walls.



GPGrid _ Geogrid

This product is produced from the extruded polyethylene granules, used as a protector for oil and gas pipelines.



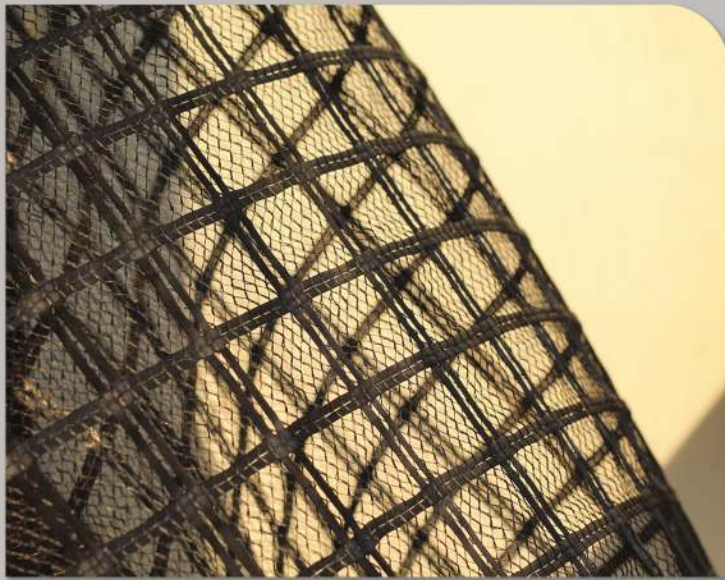
ST-0004



No.28, Jahanbakhshnejad St., North Pasdaran Ave., Tehran – IRAN 19579 , Tel : +9821 26 11 95 25 , Fax: +9821 22 22 22 78

Factory : Mazandaran, Amol - Mahmoudabad road, Shohadae Mahmoudabad Industrial Zone.

info@geoparsian.com www.geoparsian.com

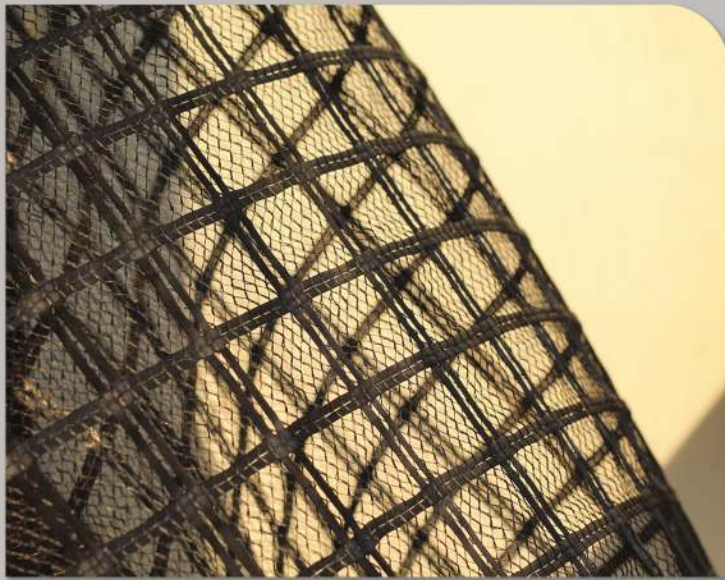


High Tech . More Quality





The First & The Only One in Meddle East & CIS Countries



High Tech . More Quality

