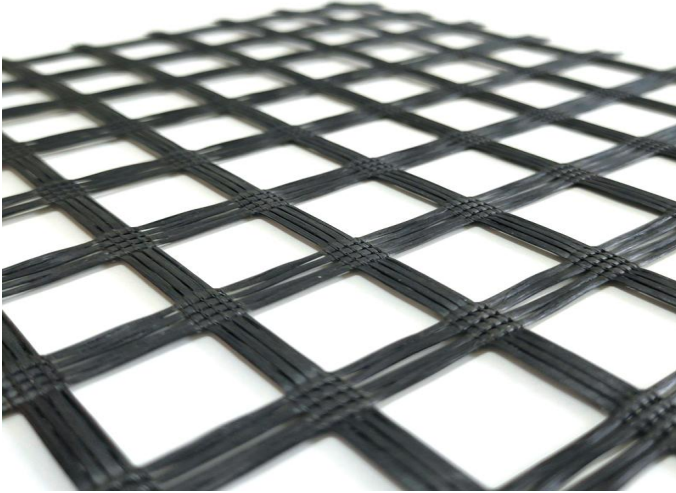


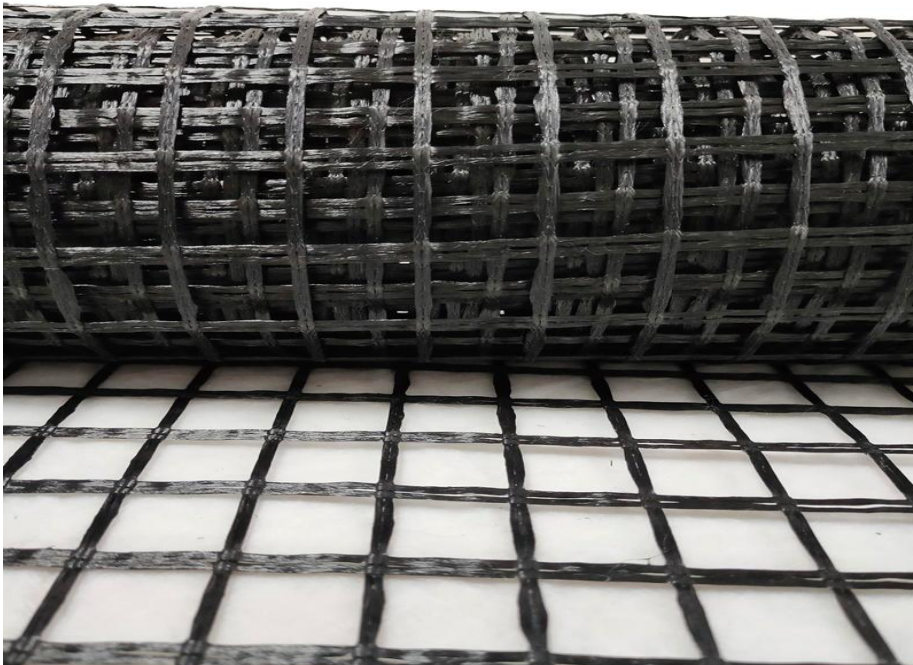
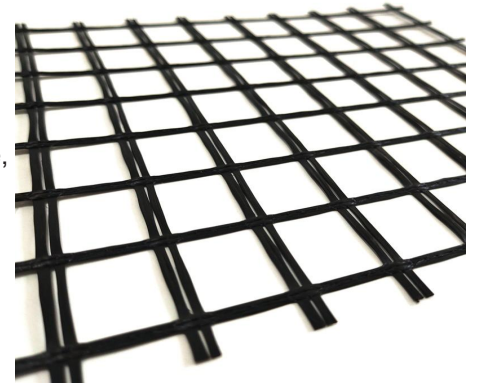
Warp-knitted Fiberglass Geogrid



Warp-knitted fiberglass geogrid is an excellent geosynthetic material made of high-quality reinforced alkali-free glass fiber yarn used for road reinforcement, old road reinforcement, roadbed and soft soil foundation reinforcement. It has become an irreplaceable material in the application of treating reflective cracks on asphalt pavement. This product is a semi-rigid product made of high-strength alkali-free glass fiber as a mesh base material through international warp knitting technology and surface-coated. It has high tensile strength and low elongation in both warp and weft directions, and has excellent properties such as high temperature resistance, low cold resistance, aging resistance, and corrosion resistance.

Fiberglass geogrid is a kind of plane network shape material that selects excellent reinforcement non-alkali fiberglass yarn.

It is woven in to base material by using foreign advanced warp knitter and adopts warp knitted directional structure, It make full use if yarn strength in textile, improves its chemical performance and makes it have good tension resistance, tearing resistance and creep resistance and is formed by excellent modified asphalt coating treatment.



[WARP-KNITTED FIBERGLASS GEOGRID]

Glass Fiber Geogrid is composed of a reticular structural material made of glass fiber filament with modified bitumen coating. It withstands high and low temperatures and can resist corrosion. FiberGlass geogrid is a stress relief asphalt reinforcement grid developed specifically for asphalt overlays. Fiber Glass geogrid can not only decrease the cost of construction but also longer the service life of the pavement and road.

WARP-KNITTED FIBERGLASS GEOGRID Features:

- FiberGlass geogrid is a stress relief asphalt reinforcement grid developed specifically for asphalt overlays. Fiber Glass geogrid can not only decrease the cost of construction but also longer the service life of the pavement and road;
- Fiberglass geogrid have Light weight, high tensile strength, high modulus, low elongation and good toughness;
- Corrosion resistance, no long-term creep, long life span;
- HDPE geomembrane has good chemical stability performance, and can resist the corrosion of strong acid, alkali, and oil is a better anticorrosive material;
- Resistant to fatigue cracking, high-temperature track and low temperature shrinkage cracking;
- Fiberglass geogrid can Delaying and decreasing crack reflection.

APPLICATION

Warp-knitted fiberglass geogrid has high intensity, low elongation ratio, thermostable, high module, light weight, good toughness, anti-corrosive, long life and so on characteristics, and can be applied in the old cement road surface, runway's service, the dike, the river bank, the side slope protection, project domains and so on road bridge connection surface enhancement processing. It can reinforce the road surface and prevents the road surface rut fatigue cracking the hot-cold expansion crack and the following reflection crack, and can scatter the road surface bearing stress, extense road surface service life, the high tensile strength and the low elongation ratio, no long-term slow change. The physical chemistry stability and hot-stability are good, anti-wear dehisence, anti-low temperature shrinkage crack and postpone reduction reflection crack.

Warp-knitted fiberglass geogrid is a versatile and cost-effective material that is widely used in civil engineering and construction projects for soil stabilization, pavement reinforcement, subgrade reinforcement, erosion control, and retaining walls. Its high tensile strength, durability, and resistance to environmental factors make it an ideal choice for a wide range of applications

1. It reinforces old asphalt concrete road surface and asphalt surface layer, and prevents damage;
2. It is used for rebuilding cement concrete road surface into composite road surface and restraining reflection caused by lock contraction;
3. It is used in road expansion and improvement project and crack caused by old combination position and uneven sedimentation;
4. It is used in soft soil base reinforcement treatment, is favorable for soft soil water separation and concretion, restrains sedimentation effectively, distributes stress uniformly and improve overall strength;
5. It is used for prevention contraction crack caused by new rode semi-rigid base layer, and reinforcing and preventing road surface crack used by foundation crack reflection.

SPECIFICATIONS OF WARP-KNITTED FIBERGLASS GEOGRID

Item		FGG 30X30	FGG 50X50	FGG 80X80	FGG 100X100	FGG 120X120	FGG 150X150	FGG 200X200	FGG 300X300
Mesh Size TD/MD,MM		12.7mmX12.7mm,25.4mmX25.4mm							
Tensile Strength TD,KN/M	Warp direction	30	50	80	100	120	150	200	300
Tensile Strength MD,KN/M	Across Warp	30	50	80	100	120	150	200	300
Elongation TD,%	Warp direction	4							
Elongation MD,%	Across Warp	4							
Thermal tolerance (°C)		-100~280							
Width,M		1M to 6M,normal is 3.95M and 5.8M							
Length,M		Normal is 50M or 100M or as per your request							
Note		1,All type fiberglass geogrid can composite 17g/m2 to 200g/m2 PET or PP Geotextile 2,All type fiberglass geogrid can self Adhesive							

PROJECTS CASE OF WARP-KNITTED FIBERGLASS GEOGRID



[old road reconstruction in Egypt]



[Parking lot foundation reinforcement in Guinea]

WARP-KNITTED FIBERGLASS GEOGRID CONSTRUCTION

Construction method of Warp-knitted fiberglass geogrid:

- The paving surface of the geogrid should be relatively flat. After the paving layer has passed the acceptance inspection, in order to prevent longitudinal skew, first draw a white line or a hanging line on the paving layer according to the width, and then the paving can begin. Fix the ends of the grille with iron nails (8 nails per meter wide, fixed at even distances).
- After fixing the ends of the grille, use a paving machine to slowly pull the grille forward. Manually tighten and straighten it every 10 meters until one roll of grille is laid, and then lay the next roll. Volume, the operation is the same as before.
- After paving one roll, use a 6T-10T roller to roll it from the starting point in the forward direction. (If it is paved on the mid-surface layer and leveling layer, it is better to use a steel roller roller; if the grid is laid directly on the concrete pavement, it is better to use a rubber roller roller.).
- Joint paving: The unit of roll length is used as the paving section length. After the section length that should be paved with grating is covered, the overall paving quality is checked again, and then the next section is paved.
- When paving the next section, the grid and grating can be overlapped with a length of 10-15CM and fixed with iron nails or wooden wedges before continuing to pave the second section in the forward direction. By analogy, the operation requirements are the same as before.

- It reinforces old asphalt concrete road surface and asphalt surface layer, and prevents damage.
- It is used for rebuilding cement concrete road surface into composite road surface and restraining reflection caused by lock contraction.
- It is used in road expansion and improvement project and crack caused by old combination position and uneven sedimentation.
- It is used in soft soil base reinforcement treatment, is favorable for soft soil water separation and concretion, restrains sedimentation effectively, distributes stress uniformly and improve overall strength.
- It is used for prevention contraction crack caused by new rode semi-rigid base layer, and reinforcing and preventing road surface crack.
- HDPE geomembrane is suitable for aquaculture industry: intensive, factory breeding ponds, fish ponds, lining of shrimp ponds, sea cucumber circle slope, etc.

