



## High-tenacity Geocomposite for Enhanced Pavements

ACECompo™ is the trademark representing ACE Geosynthetics' comprehensive range of geocomposite products. At the core of the GB series is a triad of meticulously engineered components: a high-tenacity fiberglass grid, a lightweight nonwoven geotextile, and a bitumen coating. The high-tenacity fiberglass grid offers unparalleled strength, modulus, and high-temperature resistance. These characteristics enable ACECompo™ GB to display superior reinforcement abilities, dramatically increasing its resilience against potential damages during installation. Complementing the fiberglass grid, the nonwoven geotextiles optimize the liquid asphalt retention capacity of the product. The bitumen coating, known for its exceptional bonding property, seamlessly integrates with asphalt layers. Collectively, these elements work in synergy, forging a product that not only bolsters the adhesive bond with asphalt layers but also prolongs the lifespan of pavements. This meticulous composition results in a sharp reduction in reflective cracking caused by cyclic traffic loads. Consequently, ACECompo™ GB emerges as an epitome of efficiency and cost-effectiveness, paving the way for superior road rehabilitation solutions.

### ACECompo™ GB: Advancing Pavement Strength with High-Tenacity Geocomposite.

Product Properties	Test Method	Units	GB 50-II	GB 100-II
<b>Mechanical Index Properties</b>				
Material			Glassfiber Geogrid + Polyester Thermally Bonded Nonwoven Geotextile Coated with Bitumen	
Mesh Size, -10%	Measured	mm	25.4 × 25.4	25.4 × 25.4
Tensile Strength-MD, -10%	ASTM D6637	kN/m	50	100
Tensile Strength-CD, -10%	ASTM D6637	kN/m	50	100
Tensile Elongation-MD	ASTM D6637	%	≤4	≤4
Tensile Elongation-CD	ASTM D6637	%	≤4	≤4
<b>Dimensional Characteristics</b>				
Length		m	50	50
Width		m	2 ~ 5.3	2 ~ 5.3

- Note:
1. ACE Geosynthetics reserves the right to modify or update any content on this specification sheet without any further notice.



## APPLICATION

### ACECompo™ GB Can Apply to the Following Engineering Purposes for Reinforcement:

#### Roadway and Railway Construction:

- Asphalt Layer Reinforcement
- Crack Prevention in Pavements
- Enhanced Road Rehabilitation
- Combatting Temperature-induced Rifting



### Effectively Extending the Service Life of Pavements with Multi-dimensional Benefits

ACECompo™ GB is a strategic solution in Asphalt Layer Reinforcement, acting as a bulwark against the deteriorative effects of continuous traffic strain. By significantly reducing reflective cracks, it not only ensures consistent road quality but also accentuates safety standards. An extended pavement service life brings forth a cascade of benefits. Foremost, it reduces the need for frequent and costly pavement renovations. Such renovations often come with high financial costs, significant carbon emissions from construction activities, and potential disruptions to traffic. The latter can lead to congestion, increased travel times, and heightened commuter stress. Furthermore, the environmental impact of frequent renovations—both in terms of resource use and carbon emissions—cannot be ignored. ACECompo™ GB, with its efficient installation process, offers an immediate solution. Once laid, the asphalt pavement is ready for use, curtailing construction downtime. Thus, ACECompo™ GB not only offers technical superiority but also brings about tangible socio-economic and environmental benefits, making it a discerning choice for sustainable road reinforcement.

## Why Choose ACECompo™ GB?

### Features:

- Very Low Elongation and High Tensile Modulus
- Endure High Temperatures During the Asphalt Layer Construction Process
- Strong Bonding to Asphalt Layers
- Rapid Installation Process

### Benefits:

- Prolongs Pavement Lifespan
- Reduces Repair and Maintenance Costs
- Minimizes Traffic Disruptions
- Enhances Road Safety Standards