



ACEGrid® GG-Series is woven by high-tenacity, multifilament polyester yarns and coated with durable polymer which provides the best resistance of UV and durability. ACEGrid® GG-Series provides a wide range of strength with high quality advantages - high tensile modulus and low creep behaviors etc. ACEGrid® GG-Series is suitable to stabilize the earth structures, such as MSE Wall or Steep Slope, Road, Bridge or Pavement Construction.

## Product Properties

Physical Properties	Test Method	Unit	GG20-II	GG40-II	GG60-II	GG80-II	GG100-II	GG150-II	GG200-II	GG300-II
Material										
High Tenacity Polyester Yarns Coated with Durable Polymer										
Aperture Size - MD ± 20%		mm	27	25	22	23	21	20	19	25
Aperture Size - CD ± 20%		mm	28	28	24	25	24	24	19	20
Yarn Properties										
Carboxyl End Group (CEG)	GRI GG7	mmol/kg	30	30	30	30	30	30	30	30
Molecular Weight	GRI GG8	Mn	25000	25000	25000	25000	25000	25000	25000	25000
Mechanical Index Properties										
Tensile Strength ,T <sub>ult</sub> - MD min	ASTM D6637	kN/m	20	40	60	80	100	150	200	300
Tensile Strength ,T <sub>ult</sub> - CD min	ASTM D6637	kN/m	20	40	60	80	100	150	200	300
Elongation - MD max	ASTM D6637	%	10	10	10	10	11	12	13	15
Elongation - CD max	ASTM D6637	%	10	10	10	10	11	13	14	16
Tensile Strength at 5% Strain- MD min	ASTM D6637	kN/m	10	20	30	40	40	60	80	90
Tensile Strength at 5% Strain- CD min	ASTM D6637	kN/m	10	16	24	30	36	46	56	70
Long Term Design Strength , Tal <sup>2</sup>	FHWA NHI 10-024	kN/m	12	24	37	49	61	92	123	185
Dimensional Characteristics										
Width		m	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Length		m	50/100	50/100	50/100	50/100	50	50	50	50

Note.

1. ACEGrid® biaxial geogrid is available in range from 20kN/m to 300kN/m, and the maximum width is up to 5m.
2. LTDS (Long-Term Design Strength) of ACEGrid® is calculated based on FHWA-NHI-00-043. The long-term design strength is determined by compounding the reduction factors for creep, installation damage, and environmental effects.
3. The values given are indicative and correspond to MARV obtained in ACE laboratory. The right is reserved to make changes without notice.

Disclaimer: This document is provided solely for general information, and shall not be construed as engineering advice, or part of the contract with any customer not withstanding anything to the contrary in the contract. We hereby disclaim any liability in connection with any use of the information herein.

Thank you for your interests in our products,  
 We can customize the product to fulfill different project requirement. If you require more detail information,  
 please feel free to contact us directly at [sales@geoace.com](mailto:sales@geoace.com).  
 We'll be pleased to provide our best assistance.

**Accurate, Collaborative, Efficient**

TEL: 886-4-26595926 FAX: 886-4-26595935  
 E-mail: [sales@geoace.com](mailto:sales@geoace.com) <http://www.geoace.com>