



## ACE GG 20-II GEOGRID

ACE GG 20-II geogrid is woven from high-tenacity, multifilament polyester yarns and coated with black PVC which can provide best resistance of UV and durability. High-strength, high modulus, low creep behavior are all the advantages of ACE GG 20-II geogrid.

### TYPICAL APPLICATIONS

Retaining walls, steep slopes reinforcement, embankments stabilization, base reinforcement, reduction of required structural fill, load distribution, sub-grade stabilization.

### TECHNICAL CHARACTERISTICS

TEST	METHOD	UNIT	ACE GG 20-II
<b>Physical properties</b>			
Material			Polyester, PVC
Unit weight-approx	ASTM D5261	g/m <sup>2</sup>	190
Aperture Size MD +/- 20%		mm	27
Aperture Size CD +/- 20%		mm	28
<b>Pet yarns properties</b>			
Carboxyl end group (CEG)	GRI GG7	mmol/kg	19
Molecular weight	GRI GG8	Mn	31985
<b>Mechanical Index Properties</b>			
Tensile Strength, T <sub>ult</sub> – MD min	ASTM D6637	kN/m	20
Tensile Strength, T <sub>ult</sub> – CD min	ASTM D6637	kN/m	20
Elongation- MD	ASTM D6637	%	≤ 10
Tensile Strength at 2% Strain, MD min	ASTM D6637	kN/m	≥ 5
Tensile Strength at 5% Strain, MD min	ASTM D6637	kN/m	≥ 10
<b>Long-Term Design Properties</b>			
Creep Reduction Factor, RF <sub>CR</sub>			1.44
Installation Damage Reduction Factor, RF <sub>ID</sub>			1.12
Durability reduction Factor, RF <sub>D</sub>			1.15
LTDS* (114 years)	FHWA NHI-00-043	kN/m	11

### DIMENSIONAL CHARACTERISTICS

Length		m	50
Width		m	3.9
Área		m <sup>2</sup>	195
Weight of roll (aprox.) +/- 10%		kg	44

- LTDS ( Long Term Design Strength) of ACE geogrid is calculated based on FHWA-NHI-00-043. The long-term design strength value has been compounded by reaction factors, such as installation damage (RF), creep (RF), durability (RF)
- According to FHWA-NHI-00-043, when CEG. 60 , Mn. 25,000 and the environment characterized by 5<pH<8, ACE geogrid RF<sub>D</sub>=1.15

The values given are indicative and correspond to an average result obtained in ACE Geosynthetics Enterprise Co. Ltd laboratories and testing institutes. The right is reserved to make changes without notice..