

BASALT GEO-TEXTILE SPECIFICATION SHEET

BCG

SPECIFICATIONS	BCG-320	BCG-200
Width (mm)	1000	1000
Number of ends/meter:		
warp	40	200
weft	40	200
Breaking strength (N):		
warp	45	40
weft	40	35
Surface density (g/m ²)	320	200
Binder content (%)	20	N/A

IND. FIBER SPECIFICATIONS	VALUES
Density (g/cm ³)	2,8
Tensile strength (MPa)	4,400-4,800
Modulus of Elasticity (GPA)	90-110
Elongation at break (%)	3,1
Max. service temperature (°C)	650

KEY FEATURES:

- 1) BCG-320 is impregnated with asphalt. Other possible resins/sizings are PVP, PVP and PP.
- 2) Ratio of elastic modulus between basalt fiber concrete and asphalt concrete is 24:1.
- 3) Temperature variance is between -260 and 700°C.
- 4) Same thermal expansion coefficient as asphalt concrete.
- 5) No long-term creep.
- 6) Excellent resistance to UV radiation.
- 7) High chemical resistance to acids and alkalis.
- 8) Possible widths: 1m, 2m, 2.5, 2.75, 3.2m, and 4m.