

KwaZulu-Natal Department of Transport – ZNB2528/10T – Supply of Geotextiles Specification Sheet - page 1 Fibertex Geotextiles

Fibertex Geotextiles fulfils the latest requirements of the Kwazulu-Natal Department of Transport Supply of Geotextiles Standard Specifications. Fibertex Geotextiles comply with the specification requirements for Geotextiles intended to be used in geotechnical situations given in Section 6 on page 51 and Section 7. Grades and Properties, Table 1 on page 52.

Grade A - Fibertex F-55

Heavy separation, earth encapsulation, rip-rap, river protection applications and shore revetment works.

| Characteristics | Units | Grade A | F-55 | TEST method |
|--------------------------------|----------------------|-------------------|------|---------------|
| Penetration load CBR | kN | Min. 4.5 | 4.5 | SANS 10221-07 |
| Elongation at Rupture | % | Min. 10 – Max. 50 | 50 | SANS 10221-07 |
| Water percolation through flow | l/sec/m ² | Min. 20 | 70 | SANS 10221-07 |

Grade B - Fibertex F-40

Medium separation, earth encapsulation and rip-rap applications.

| Characteristics | Units | Grade B | F-40 | TEST method |
|--------------------------------|----------------------|-------------------|------|---------------|
| Penetration load CBR | kN | Min. 3.0 | 3.1 | SANS 10221-07 |
| Elongation at Rupture | % | Min. 10 – Max. 50 | 50 | SANS 10221-07 |
| Water percolation through flow | l/sec/m ² | Min. 20 | 70 | SANS 10221-07 |

Grade C - Fibertex F-34

Light separation, light rip-rap applications and under reno mattresses.

| Characteristics | Units | Grade C | F-34 | TEST method |
|--------------------------------|----------------------|-------------------|------|---------------|
| Penetration load CBR | kN | Min. 2.1 | 2.5 | SANS 10221-07 |
| Elongation at Rupture | % | Min. 10 – Max. 50 | 50 | SANS 10221-07 |
| Water percolation through flow | l/sec/m ² | Min. 20 | 70 | SANS 10221-07 |

Grade D - Fibertex F-32

Behind gabion and large sub-surface drains.

| Characteristics | Units | Grade D | F-32 | TEST method |
|--------------------------------|----------------------|-------------------|------|---------------|
| Penetration load CBR | kN | Min. 2.0 | 2.0 | SANS 10221-07 |
| Elongation at Rupture | % | Min. 10 – Max. 50 | 50 | SANS 10221-07 |
| Water percolation through flow | l/sec/m ² | Min. 20 | 85 | SANS 10221-07 |



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Grade E - Fibertex F-25

Sub-soil drains.

| Characteristics | Units | Grade E | F-25 | TEST method |
|--------------------------------|----------------------|-------------------|------|---------------|
| Penetration load CBR | kN | Min. 1.5 | 1.6 | SANS 10221-07 |
| Elongation at Rupture | % | Min. 10 – Max. 50 | 50 | SANS 10221-07 |
| Water percolation through flow | l/sec/m ² | Min. 20 | 145 | SANS 10221-07 |

Above technical values are mean values based on measurements in current production and test results from independent test institutes.

Standard dimensions.

| Roll length | Widths Available |
|-------------|------------------------------------|
| 100 m | 1.3 m; 1.7 m; 2.6 m; 3.5 m & 5.2 m |

Fibertex Geotextiles

Fibertex Geotextiles are used in building and construction works for separation, filtration, drainage, protection, stabilization and reinforcement.

Fibertex Geotextiles are made of virgin polypropylene fibres added HALS UV stabilizer according to EN 12224.

The basic strength of Fibertex Geotextiles is obtained by needle-punching the PP-fibres, which gives strong elastic bonding between the fibres.

Due to the unique production process all Fibertex Geotextiles are added a thermal treatment unless marked with:

M: Needlepunched only

Quality Management

Fibertex A/S is certified according to the international quality management system DS/EN ISO 9001 as well as the environmental management system DS/EN ISO 14001.



Specifications for KZN department of Transport Tenders

The geotextile should be **Grade.....**

Fibertex type

The material should be needlepunched PP with a penetration load level ofkN, acc. SANS 10221-07, the water throughflow should be l/sec/m² acc. SANS 10221-07. The geotextile supplier must be certified acc. to ISO 9001 and ISO 14001.

