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**(January 2, 2012)**

**Geosynthetic Properties for Reinforced Slopes**

Geotextile reinforcement (primary and secondary) in geosynthetic reinforced slopes shall conform to the properties specified in Tables 7 and 11.

If geogrid reinforcement is used for wrapped face reinforced slope construction, the geotextile material placed at the wall face to retain the backfill material as shown in the Plans shall conform to the properties of Table 7.

Wide strip geosynthetic strengths are minimum average roll values (i.e., the average test results for any sampled roll in a lot shall meet or exceed the values shown in the table). These wide strip strength requirements apply only in the geosynthetic direction perpendicular to the slope face. Wide width tensile strength testing is in conformance with the most recently approved ASTM geosynthetic test procedure (ASTM D4595 for geotextiles, and ASTM D6637 for geogrids), except for geosynthetic sampling and specimen conditioning, which are in accordance with WSDOT Test Methods 914 and 915, respectively.

**Table 11:** Long-term tensile strength,  $T_{al}$ , required for geosynthetic reinforcement used in geosynthetic reinforced slopes.

<sup>3</sup> Slope Location	Vertical Spacing of Primary Reinforcement Layers	Primary Reinforcement Layer Distance from Top of Reinforced slope	<sup>1,2</sup> Minimum Long-Term Tensile Strength, $T_{al}$ , for Primary Reinforcement	<sup>1</sup> Minimum Ultimate Tensile Strength (ASTM D4595 or D6637) for Secondary Reinforcement
***\$1\$\$***	***\$2\$\$***	***\$3\$\$***	***\$4\$\$***	1300 lbs/ft.

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<sup>1</sup>These long-term tensile strength requirements apply only in the geosynthetic direction perpendicular to the slope face.

<sup>2</sup> $T_{al}$  shall be determined in accordance with WSDOT Standard Practice T925.

<sup>3</sup>Reinforced slopes \*\*\*\$5\$\$\*\*\* are classified as Class \*\*\*\$6\$\$\*\*\* structures.