

NOTES:

This information is to be used only as a guide.  
 Products on the list can change without notice.

WSDOT QPL website: <http://www.wsdot.wa.gov/biz/mats/QPL/QPl.cfm>

## WSDOT 2002 SPECIFICATIONS

### Section 9-33

**TABLE 1**  
**Underground Drainage Strength Properties**

<u>Geotextile Property</u>	<u>Test Method</u>	<u>Low Survivability Woven/Nonwoven</u>	<u>Moderate Survivability Woven/Nonwoven</u>
Grab Tensile (M & XM)	ASTM D4632	180/115	250/160
Grab Failure Strain	ASTM D4632	<50% / >50%	<50% / >50%
Seam Breaking	ASTM D4632(3)	160/100	220/140
Puncture Resistance	ASTM D4833	67/40	80/50
Tear Strength (M & XM)	ASTM D4533	67/40	80/50
UV Radiation Stability	ASTM D4355	50% @ 500	50% @ 500
CSI Product		Class A&B: 3401/140N Class C: 180N	Class A&B: 160N Class C: 180N
		3401	3501

**TABLE 2**  
**Underground Drainage Filtration Properties**

<u>Geotextile Property</u>	<u>Test Method</u>	<u>Class A</u>	<u>Class B</u>	<u>Class C</u>
AOS	ASTM D4751	.43 mm max (#40 sieve)	.25 mm max (#60 sieve)	.18 mm max (#80 sieve)
Water Permittivity	ASTM D4491	.5 sec -1 min	.4 sec -1 min	.3 sec -1 min
		3341,3301,3401, 3500	3341, 3401, 3501	3501

**TABLE 3**  
**Separation or Soil Stabilization**

<u>Geotextile Property</u>	<u>Test Method</u>	<u>Separation Woven/Nonwoven</u>	<u>Soil Stabilization Woven/Nonwoven</u>
AOS	ASTM D4751	.60 mm max (#30 sieve)	.43 mm max (#40 sieve)
Water Permittivity	ASTM D4491	.02 sec -1 min	.1 sec-1 min
Grab Tensile (M & XM)	ASTM D4632	250/160	315/200
Grab Failure Strain	ASTM D4632	<50% / >50%	<50% / >50%
Seam Breaking	ASTM D4632(3)	220/140	270/180
Puncture Resistance	ASTM D4833	80/50	112/79
Tear Strength (M & XM)	ASTM D4533	80/50	112/79
UV Radiation Stability	ASTM D4355	50% @ 500	50% @ 500
CSI Product		600X / 160N	180N /3631
		3501	3631

**TABLE 4  
Permanent Erosion and Ditch Lining**

<u>Geotextile Property</u>	<u>Test Method</u>	Moderate Survivability <u>Woven/Nonwoven</u>	High Survivability <u>Woven/Nonwoven</u>	Ditch Lining <u>Woven/Nonwoven</u>
AOS	ASTM D4751	See Table 5	See Table 5	.60 mm max (#30 sieve)
Water Permittivity	ASTM D4491	See Table 5	See Table 5	0.02
Grab Tensile (M & XM)	ASTM D4632	250/160	315/200	250/160
Grab Failure Strain	ASTM D4632	15-50% / >50%	15-50% / >50%	<50% / >50%
Seam Breaking	ASTM D4632(3)	220/140	270/180	220/140
Burst Strength	ASTM D3786	400/190	500/320	N/A
Puncture Resistance	ASTM D4833	80/50	112/79	80/50
Tear Strength (M & XM)	ASTM D4533	80/50	112/79	80/50
UV Radiation Stability	ASTM D4355	70% @ 500	70% @ 500	70% @ 500
CSI Product		160N	180N	600X/160N
TYPAR		3501	3631	3601

**TABLE 5  
Permanent Erosion Control Filtration Properties**

<u>Geotextile Property</u>	<u>Test Method</u>	<u>Class A</u>	<u>Class B</u>	<u>Class C</u>
AOS	ASTM D4751	.43 mm max (#40 sieve)	.25 mm max (#60 sieve)	.22 mm max (#70 sieve)
Water Permittivity	ASTM D4491	.7 sec -1 min 3301,3341,3401	.4 sec -1 min 3301,3401,3501	.2 sec -1 min 3301,3401,3501

**TABLE 6  
Temporary Silt Fence**

<u>Geotextile Property</u>	<u>Test Method</u>	Unsupported <u>Between Posts</u>	Supported Between Posts with Wire or <u>Polymeric Mesh</u>
AOS	ASTM D4751	.60 mm max (#30) for Slit Film Woven .30 mm max (#50) for Other Types #100 min	.60 mm max (#30) for Slit Film Woven .30 mm max (#50) for Other Types #100 min
Water Permittivity	ASTM D4491	.02 sec-1 min	.02 sec-1 min
Grab Strength (M & XM)	ASTM D4632	180-M, 100-XM	100 M & XM
Grab Failure Strain	ASTM D432	30%	
UV Radiation Stability	ASMT D4355	70% @ 500	70% @ 500
CSI Fabric		200SC 3601	AGES 600B 3301