



**GEOTEX<sup>®</sup> FOR SEPARATION.** The most common use of geotextiles beneath paved and unpaved roadways is to provide separation between dissimilar materials. GEOTEX<sup>®</sup> nonwoven is made from the highest quality polypropylene staple fibers and needle-punched to form a dimensionally stable fiber network. Nonwoven geotextiles are available in a variety of styles to deliver the best performance possible.

**Separation/Stabilization**

Geotextile separation is defined as the introduction of a flexible, porous textile placed between dissimilar materials so that the integrity and function of both materials can remain intact or be improved (Koerner, 1994).

Paved and unpaved roadway applications are stabilized when a geotextile is placed at the subgrade/aggregate interface. When the aggregate is compacted over the top of a geotextile, the individual stones are “seated” making impressions in the geotextile and the subgrade. This interaction locks the bottom of the aggregate into a fixed position, stabilizing the aggregate layer indefinitely.

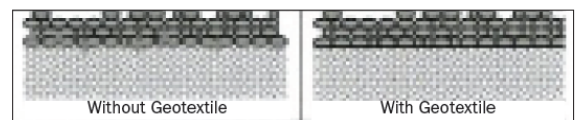
**Design & Specification**

GEOTEX<sup>®</sup> nonwoven geotextiles are easy to design and specify using AASHTO M-288 Specifications for Geotextile Applications. This design guideline uses classes 1-3 to determine which non-woven geotextile is appropriate for your project. Class 1 for projects where the most strength is needed for construction survivability and durability.

When a geotextile separator is not used, two types of failure can occur over time.

1. The fine-grained soils migrate into the course aggregate, reducing drainage and strength.
2. The course aggregate punches into the fine-grained soil, reducing the effective thickness of the aggregate layer.

1. Soil fines migrating into stone aggregate voids - prevented using a geotextile



2. Aggregate punching into subgrade soil - prevented using a geotextile



# AASHTO M-288 Recommended Products

Application	Class		Nonwoven	Woven
Subsurface Drainage	Class 1	≤15% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 801	-
		15 to 50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 801	-
		>50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 801	-
	Class 2	≤15% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 601	-
		15 to 50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 601	GEOTEX <sup>®</sup> 104F
		>50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 601	GEOTEX <sup>®</sup> 104F
	Class 3 (Use Class 3 only if specified by engineer – see note b of table 2 in M288 spec)	≤15% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 401	-
		15 to 50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 401	-
		>50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 401	-
Separation	Class 1		GEOTEX <sup>®</sup> 801	GEOTEX <sup>®</sup> 315ST
	Class 2		GEOTEX <sup>®</sup> 601	GEOTEX <sup>®</sup> 250ST
	Class 3		GEOTEX <sup>®</sup> 401	GEOTEX <sup>®</sup> 200ST
Stabilization	Class 1		GEOTEX <sup>®</sup> 801	GEOTEX <sup>®</sup> 315ST
	Class 2 (Use class 2 only if specified by engineer – see note a of table 5 in M288 spec)		GEOTEX <sup>®</sup> 601	GEOTEX <sup>®</sup> 250ST
	Class 3 (Use class 3 only if specified by engineer – see note a of table 5 in M288 spec)		GEOTEX <sup>®</sup> 401	GEOTEX <sup>®</sup> 200ST
Permanent Erosion Control	Class 1 (Geotextiles other than woven monofilaments)	≤15% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 801	-
		15 to 50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 801	-
		>50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 801	-
	Class 2 (Woven Monofilament Geotextiles or other geotextiles as specified by engineer - see note c of table 6 in M288 specs)	≤15% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 601	-
		15 to 50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 601	GEOTEX <sup>®</sup> 104F
		>50% <i>in Situ</i> Soil passing 0.075 mm	GEOTEX <sup>®</sup> 601	GEOTEX <sup>®</sup> 104F
Temporary Silt Fence	Supported		GEOTEX <sup>®</sup> 351	-
	Unsupported		-	GEOTEX <sup>®</sup> 2130
Paving Fabric	Type 1		-	-
	Type 2		PETROMAT <sup>®</sup> 4598	-



**FOR QUESTIONS ABOUT GEOTEX<sup>®</sup> OR OTHER PRODUCTS CALL  
CUSTOMER SERVICE AT 1.800.621.1273 OR VISIT PROPEXGLOBAL.COM**

