

SUDAS Revision Submittal Form

Status Date: As of 11/7/2022 **Topic:** Turf reinforcement mats
Manual: Specifications **Manual Location:** Section 9040, 2.17, B

Requested Revision:

B. Properties and Performance: Meet the minimum material and performance requirements contained in the following table:

Property ¹		Test Method	Type 1	Type 2	Type 3	Type 4
Material	Thickness	ASTM D 6525	0.25 in	0.25 in ⁵	0.25 in ⁵	0.25 in ⁵
	Tensile Strength ²	ASTM D 6818	125 lb/ft	240 lb/ft	750 lb/ft	3,000 lb/ft
	UV Resistance ³	ASTM D 4355	80% @ 500 hrs	80% @ 1,000 hrs	80% @ 1,000 hrs	90% @ 3,000 hrs
Performance	Maximum Shear Stress ⁴ (Channel Applications)	ASTM D 6460	7 lb/ft ²	10 lb/ft ²	12 lb/ft ²	15 lb/ft ²
	Maximum Slope Gradient (Slope Applications)	N/A	1:1 (H:V) or flatter	1:1 (H:V) or flatter	1:1 (H:V) or greater	1:1 (H:V) or greater

- 1 For TRMs containing degradable components, all values must be obtained on the non-degradable portion of the matting.
- 2 Minimum Average Roll Values, machine direction only.
- 3 Tensile strength of structural components retained after UV exposure.
- 4 Minimum shear stress that fully-vegetated TRM can sustain without physical damage or excess erosion (0.5 in soil loss) during a 30 minute flow event in large scale testing. Acceptable large scale testing protocol includes ASTM D 6460 or independent testing conducted by the Texas Transportation Institute, Colorado State University, Utah State University, or other approved testing facility. Bench scale testing is not acceptable.
- 5 Type 2, 3, and 4 TRM may include additional degradable components as long as material and performance requirements are met by the 100% synthetic components.

Reason for Revision: Deleted maximum slope requirements and added changes to types 2, 3, and 4 to allow synthetic components.

Comments: None.

District: 1 2 3 4 5 6

Comments: None.

Action: Deferred Not Approved Approved

Final District Action Summary: All 6 districts approved.

Board of Directors Action: Approved.