

KUBRICKY CONSTRUCTION CORP.
269 BALLARD ROAD

WILTON, NY 12831
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KUBRICKY CONSTRUCTION CORP.
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Rutland City BRF 3000 (2014036)
SUBMITTAL 4

Issued 11/07/14
Respond by 11/12/14

To

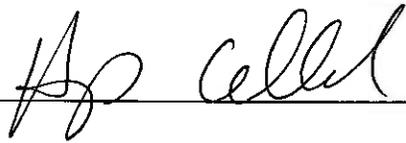
Timothy Pockette, PE

Topic Geotextile Under Stone Fill
Status For Approval
Spec section 649.31
Sent to approver 11/7/14

From

HARPER T CALLAHAN

Signed by



Date

11/7/14

Proceed as Indicated

Owner Authorized Representative

Date



ADS GEOSYNTHETICS 0801T NONWOVEN GEOTEXTILE

Scope

This specification describes ADS Geosynthetics 8.0 oz (0801T) nonwoven geotextile.

Filter Fabric Requirements

ADS Geosynthetics 8.0 oz (0801T) is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. ADS Geosynthetics 8.0 oz (0801T) resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. Polypropylene is stable within a pH range of 2 to 13. ADS Geosynthetics 8.0 oz (0801T) conforms to the physical property values listed below:

Filter Fabric Properties

PROPERTY	TEST METHOD	UNIT	M.A.R.V. (Minimum Average Roll Value)
Weight (Typical)	ASTM D 5261	oz/yd ² (g/m ²)	8.0 (271)
Grab Tensile	ASTM D 4632	lbs (kN)	205 (0.911)
Grab Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	lbs (kN)	85 (0.378)
CBR Puncture Resistance	ASTM D 6241	lbs (kN)	535 (2.38)
Permittivity*	ASTM D 4491	sec ⁻¹	1.35
Water Flow*	ASTM D 4491	gpm/ft ² (l/min/m ²)	90 (3657)
AOS*	ASTM D 4751	US Sieve (mm)	80 (0.180)
UV Resistance	ASTM D 4355	%/hrs	70/500

PACKAGING	
Roll Dimensions (W x L) – ft	12.5 x 360 / 15 x 300
Square Yards Per Roll	500
Estimated Roll Weight - lbs	250

* At the time of manufacturing. Handling may change these properties.

Vt State Geotextile Roll Values

All require type "D" Certification

Geotextile Property	Test Meth	Pay Item 649.11 Roadbed Sep	Pay Item 649.21 Under Rail Ballast	Pay Item 649.31 Under Stone Fill	Pay Item 649.41 Underdrain Trnch	Pay Item 649.61 Filter Curtain	Pay Item 649.51 Silt Fence			
		Woven: Propex 250ST Skaps W250 Nonwoven: Propex 601 Skaps GT160	Woven: 315ST Skaps W315 Propex Nonwoven: Propex 1201/801 Skaps GT112/GT180	Nonwoven: Propex 801 Skaps GT112	Nonwoven: Propex 351/701 Skaps GT135/GT170	Woven: Propex 104F Skaps M706				
Elongation (Note 2)										
Elongation Criteria @ Failure (Note 1)	ASTM D4632	<50%	>(&=)50%	<50%	>(&=)50%	<50%	>(&=)50%	20% Min.	20% Max	(Note 4)
1. Grab Tinsile Strength (lbs/N)	ASTM D4632	250 1100	160 700	315 1400	200 900	315 1400	315 900	90 400	200 900	90 400
2. Burst Strength (psi/kPa)	ASTM D3786	390 400	190 250	510 3500	250 1700	510 3500	510 1700	85 580	205 1425	95 660
3. Puncture (lbs/N)	ASTM D4833	90 400	55 250	110 500	80 350	110 500	110 350	25 115	80 360	40 180
4. Trapezoid Tear Strength (lbs/N)	ASTM D4533	90 400	55 250	110 500	80 350	110 500	110 350	25 110	50 225	30 135
5. Apparent Opening Size	ASTM D4751	16.5 max 0.42 Max	8.3 Max 0.21 Max	8.3 Max 0.21 Max	8.3 Max 0.21 Max	8.3 Max 0.21 Max	8.3 Max 0.21 Max	8.3 Max 0.21 Max	8.3 Max 0.21 Max	23.6 Max 0.60 Max
6. Permittivity (s-1)	ASTM D4491	0.02	0.3	0.4	0.05	0.4	0.05	0.4	0.05	0.05
7. UV Resistance (% Strength)	ASTM D4355	50% @ 500 Hrs	50% @ 500 Hrs	50% @ 500 Hrs	70% @ 500 Hrs	70% @ 500 Hrs	70% @ 500 Hrs	70% @ 500 Hrs	70% @ 500 Hrs	70% @ 500 Hrs
8. Other				Woven or Nonwoven; slit film NOT permitted	Nonwoven only, slit film NOT permitted	Woven Only	Woven Only			

- 1 Elongation corresponds to Mximum Grab Tinsile Strength as measrued in accordance with ASTM D4632
- 2 Only one criteria applies per Pay Item
- 3 Where angular aggregate larger than 100 mm size or sharp objects come in contact with geotextile, or if the trench is deeper than 10 feet, then the minimum Grab Tinsile, Burst, puncture, and Trepezoid Tear Strengths shall be increased to 180 lbs(800N), 290 psi(200kPa), 80 lbs(360N), and 50 lbs(225N) respectively
- 4 Where elongation is >(&=)50%, post spacing shall not exceed 4 ft (1.2m). Where elongation is <50% post spacing shall not exceed 6 ft (2m)