



A CARRIFF ENGINEERED FABRICS COMPANY



A CARRIFF ENGINEERED FABRICS COMPANY

HIGHWAY GRADE SOCK™ GEOTEXTILE PERFORMANCE DATA GUIDE

Revision 0013B
Effective January 2020
Supersedes Revision 0012B, January 2018

FABRIC PROPERTY	Test Method	Unit of Measure	ASTM D6707-06 Requirements for Type "H" Fabrics	FL-04289C For nominal 4" (100mm) dia. pipes	FL-04188C For nominal 6" (150mm) dia. pipes	FL-04485C For nominal 8" (200mm) dia. pipes	FL-04549C For nominal 10" (250mm) dia. pipes	FL-04556C For nominal 15" (380mm) dia. pipes	FL-04557C For nominal 18" (450mm) & 24" (600mm) dia. Pipes	FL-00520C For nominal 30" (750mm) & 36" (900mm) dia. Pipes	FL-04369 For nominal 4" (100mm) dia. pipes	FL-04370 For nominal 6" (150mm) dia. pipes
AOS (Apparent Opening Size) (See Note 1 Below)	(max)	ASTM D4751 (in accordance with ASTM D6707)	mm	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.300	0.300
		US Sieve		40	40	40	40	40	40	40	50	50
PUNCTURE STRENGTH (See Note 1 Below)	(min)	ASTM D6241 (in accordance with ASTM D6707)	N	800	1200	1200	1200	1200	1400	1400	1400	1100
		pound-force		180	270	270	270	270	310	310	310	247
PERMITTIVITY (See Note 1 Below)	(min)	ASTM D4491 (in accordance with ASTM D6707)	s ⁻¹	2.75	5.0	5.0	4.0	4.0	3.0	3.0	2.75	2.75
FOS (Filtration Opening Size)	(max)	CAN/CGSB-148.1 No10-94	microns	n/a	n/a	n/a	n/a	n/a	n/a	n/a	250	250
BURSTING STRENGTH (Mullen)	(min)	ASTM D3786	kpa	900	900	900	900	900	900	900	800	800
			psi	130	130	130	130	130	130	130	115	115
WATER FLOW RATE	(min)	ASTM D4491 (modified) 2" constant head	US gal / min./ ft ²	300	300	300	300	225	225	175	200	200
			litres / min./ m ²	12220	12220	12220	12220	9160	9160	7130	8150	8150
APPLIED FABRIC WEIGHT (based on manufacturers recommended application rates)			oz. / yd ²	3.5	3.5	3.5	3.5	4.0	4.0	4.0	3.2	3.5
			gm./ m ²	118	118	118	118	135	135	135	109	118
FIBER CONTENT			Polyester	100%	100%	100%	100%	100%	100%	100%	100%	100%
FABRIC CONSTRUCTION			Circular Knitted	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
			Fabric Structure	Lacoste Knit	Lacoste Knit	Lacoste Knit	Lacoste Knit	Lacoste Knit	Lacoste Knit	Lacoste Knit	Lacoste Knit	Terry Knit
FABRIC COLOR				White	White	White	White	White	White	White	White	White
IDENTIFICATION COLOR CODE				Red Stripe	Red Stripe	Red Stripe	Red Stripe	Red Stripe	Red Stripe	Red Stripe	Black Stripe	Black Stripe

NOTES;

- Carriff Engineered Fabrics Corporation and its subsidiaries support the use of ASTM D6707 "Standard Specification for Circular-Knit Geotextile for use in Subsurface Drainage Applications" protocol when evaluation of their fabrics are undertaken. The reporting of additional fabric properties are provided for information purposes only.
- Values reported are based on independent laboratory evaluation and are considered to be true and accurate.
- The manufacturer certifies that all values provided are indicative of the fabrics properties at the time of manufacture and shipment to the original purchaser only. This certification is not transferable. Any required certifications of compliance to a specific characteristic are the responsibility of the final seller of the fabric.
- Product SKU's containing the suffix "C" are certified as being manufactured in Midland, North Carolina, U.S.A. by Carriff Corporation. Product SKU's not containing the suffix "C" are manufactured in London Ontario Canada by Zodiac Fabrics Company. Both firms are wholly owned subsidiaries of Carriff Engineered Fabrics Corporation.
- The information provided on this data sheet is provided by Carriff Engineered Fabrics Corporation (CEFC) at no cost and without liability on the part of CEFC or its subsidiaries, Zodiac Fabrics Company and Carriff Corporation (the Manufacturers). The individual using this information assumes full responsibility for its application and agrees to contact the manufacturers to ensure that this Data Sheet is the most recent version available. Furthermore, CEFC and its subsidiaries, offer no guarantee as to the use, installation or suitability of the products described in this document. Since conditions surrounding the use and handling of these products can vary and are beyond the control of the manufacturer, they can in no way be held responsible for the performance of the products, nor consequences arising from their improper installation or use. The manufacturer must be informed of any product defect or deficiency found, prior to the products use or installation. The liability of CEFC and its subsidiaries is limited to the refund of or replacement of the deficient or defective product.

ZODIAC FABRICS COMPANY and CARRIFF CORPORATION are WHOLLY OWNED SUBSIDIARIES OF CARRIFF ENGINEERED FABRICS CORPORATION.

"SOCK" is a registered trademark of CARRIFF ENGINEERED FABRICS CORPORATION