



## GRATEKEEPER™ (RF) Storm Drain Inlet Filter

The GRATEKEEPER is a below-the-grate inlet filter designed to capture silt, sediment and debris before it clogs the sewer/drainage system. Routine inspection of collected materials is important to assure that the GRATEKEEPER will function properly. Held in-place by the grate, the GRATEKEEPER is designed to be emptied, cleaned and reused for the life of a project.

The GRATEKEEPER (RF) Regular-Flow is manufactured with Carthage Mills' FX-200MF which is a woven High-Performance geotextile produced from 100% high-tenacity polypropylene yarns; is inert to biological degradation; and resistant to naturally encountered chemicals, alkalis and acids. GRATEKEEPER (RF) is available in the following sizes: 2' x 2', 2' x 3' and 2' x 4'; all are 3' in depth and have four (4) overflow holes so as to remain effective during extreme weather events. All seams are double-needle, chain-lock stitching using high tenacity/high UV polypropylene thread. The data for our FX-200MF is as reported below.



Gratekeeper properties meet or exceed AASHTO M288-15 Class 2.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical/Performance/Design</b>	ASTM D 4595		
Wide Width Tensile Ultimate		39.4 kN/m	2700 lbs/ft
Wide Width Tensile @ 2% Strain		7.3 x 11.7 kN/m	500 x 800 lbs/ft
Wide Width Tensile @ 5% Strain		16 x 24.80 kN/m	1100 x 1700 lbs/ft
Wide Width Tensile @ 10% Strain		29.2 x 40.9 kN/m	2000 x 2800 lbs/ft
<input type="checkbox"/> <b>Mechanical/Index</b>	ASTM D 4632		
Grab Tensile Strength		1.424 kN	320 lbs
Grab Tensile Elongation		15%	
Trapezoidal Tear	ASTM D 4533	0.56 kN	125 lbs
CBR Puncture	ASTM D 6241	0.623 kN	1400 lbs
<input type="checkbox"/> <b>Endurance</b>	ASTM D 4355		
UV Resistance		90% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics/Filtration</b>	ASTM D 4491		
Permittivity		0.70 sec <sup>-1</sup>	
Water Flow Rate		2037.3 lpm/m <sup>2</sup>	50 gpm/ft <sup>2</sup>
Apparent Opening Size (AOS)	ASTM D 4751	0.425 mm	40 US Std. Sieve

NOTES: Mullen Burst Strength ASTM D 3786 is no longer recognized by ASTM D35 on Geosynthetics.

Puncture Strength ASTM D 4833 is not recognized by AASHTO M 288-06 and has been replaced with CBR Puncture ASTM D 6241.

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2022 and are subject to change without notice.

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