

StormSok Specification Sheet

Product No.: 9794-1-000

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Physical properties:

1. Weight: 25 lb max.
2. Material:
 - a) Support ring: aluminum alloy, rolled
 - b) Shroud: high density polyethylene: wall thickness 0.125" (typ)
 - c) Support hub: CRS, powder coated
 - d) Sack material: woven polypropylene geotextile with reinforcement mesh
 - e) Hardware: aluminum pop-rivets, CRS washers
3. Performance characteristics (typ):
 - a) Debris capacity: 4.1 cu-ft
 - b) Filtered flow rate: 1919 gpm (4.3 cfs)
 - c) Bypass flow rate: 861 gpm (1.9 cfs)
4. Minimum required clear opening: 21.5" diameter

Mechanical Properties:

Frame/Flange Assembly:

1. Aluminum Alloy 6063-T6
 - a) Yield Strength: 40,000-psi
 - b) Tensile Strength: 45,000-psi
 - c) Shear Strength: 30,000-psi
2. Hardware:
 - a) CRES 300 Series
 - b) Black-Oxide Alloy Steel.
 - i. Meets ASTM F912. Rockwell hardness is C45-C53
 - ii. Thread Meets ANSI/ASME B18.3, Class 3
3. High Density Polyethylene Step Flange:
 - a) Tensile Strength: 3,200 psi to 4,300 psi
 - b) Heat Deflection Temperature (@66-psi): N/A
 - c) Notched IZOD Impact Strength (@73°F): 1.2-25 ft-lb/in

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StormSack Assembly:

1. Geotextile Sack (woven geotextile polypropylene monofilament):
 - a) Grab Strength (ASTM D4632): 255x275-lbs
 - b) Trapezoid Tear (ASTM D4533): 40x50-lbs
 - c) Puncture (ASTM D4833): 135-lbs
 - d) Mullen Burst (ASTM D3786): 420 psi
 - e) AOS (US Std. Sieve): 20
 - f) Flow Rate (Water): 145-Gal/Min/Sf
2. Sack Support Netting:
 - a) Material: HDPE
 - b) Grid Opening: 1.25-in X 1.25-in (diamond)
 - c) Thickness: 0.14-in (typ)