

PRODUCT SPECIFICATION – DURABAG SANDBAG®

Revision 06-2026

DuraBag® Fabric

Property	Specification	Test Method
Material	High Density Polyethylene (HDPE) Mesh	
Fabric Weight	5 oz/yd ² (144 g/m ²)	ASTM D3776
UV Resistance / Outdoor Life	10,000 hr / 5 Years*	ASTM G155*
Weave	Knitted Mesh	
Fiber Content	100% HDPE	
Grab Tensile	79 × 96 lb	ASTM D5034
Tear Strength	39 × 40 lb	ASTM D5587
Bursting Strength	152 psi	ASTM D3786
Mullen Burst Strength	390 lbs.in/sq	ASTM D-751
Colorfastness to UV	Grade 5 @ 2,000 hr	AATCC TM16
Flame Retardant	No	ASTM D6413
Water Flow Rate	100 gal/min./sq./ft	ASTM D4491

*** UV Performance & Warranty** DuraBag® fabric has been independently tested to the maximum ASTM outdoor exposure standard, passing 2,000 hours of accelerated Xenon Arc testing with no failure. Because this pass/fail threshold represents the highest available ASTM UV benchmark, long-term durability is evaluated using historic field performance. Sandbag Store has manufactured and sold DuraBag® products since 2005 and has not recorded a UV-related fabric failure.

#138 CHAIN STITCH BAG CLOSURE

Property	Specification	Test Method
Thread Material	High-Tenacity Polyester Bag Closing Thread	ASTM D204
Thread Size	2,580 Denier	Manufacturer Spec
Thread Tensile Strength	21 lb minimum (25 lb nominal)	ASTM D2256
Seam Construction	Single Chain Stitch Closure	ASTM D6193
Seam Strength	70 lb Minimum	ASTM D1683
Elongation at Break	12–18% (15% nominal)	ASTM D2256

Berry Amendment Compliant

Non-lined version of this product shall comply with the requirements of the Berry Amendment (10 U.S.C. § 4862). All textile components, including fabric, thread, labels, fill material, and sewing operations, shall be manufactured and conducted in the United States using qualifying domestic materials.

Economy Polypropylene Fabric (Liner Option Only)

Property	Specification	Test Method
Material	Woven Polypropylene (WPP)	—
Fabric Weight	42 gsm (1.24 oz/yd ²)	ASTM D3776
UV Resistance / Outdoor Life	2,000 hr / 12 Months*	ASTM G155*
Weave	10 × 10 Woven	Manufacturer Spec
Fiber Content	100% Polypropylene	AATCC 20 / AATCC 20A
Yarn Size	900 Denier Warp / 900 Denier Fill	ASTM D1907
Colorfastness to UV	Grade 3 Minimum	AATCC TM16
Flame Retardant	No	ASTM D6413
Water Permeability	High	ASTM D4491

Chip Rock (#7 Coarse Aggregate)
Physical & Material Properties

Property	Specification	Test Method
Material	Crushed Stone Aggregate	ASTM C33
Classification	#7 Coarse Aggregate	ASTM C33
Color	Natural Gray / Tan	—
Density (Unit Weight)	101.8 lb/ft ³	ASTM C29
Material Hardness	Quartz Based (Mohs ~7)	Mineral Hardness Scale
Bulk Specific Gravity (SSD)	2.781	ASTM C127
Bulk Specific Gravity (Dry)	2.768	ASTM C127
Apparant Specific Gravity	2.805	ASTM C127
Absorption	0.50%	ASTM C127
Voids in Aggregate	41.00%	ASTM C29

Aggregate Quality Characteristics

Property	Specification	Test Method
Fractured Faces (1 Face)	100%	ASTM D5821
Fractured Faces (2 Faces)	100%	ASTM D5821
Flat & Elongated Particles (3:1)	0.00%	ASTM D4791
Flat & Elongated Particles (5:1)	0.00%	ASTM D4791
LA Abrasion Loss (500 Rev)	21%	ASTM C131
Sodium Soundness Loss	0%	ASTM C88
Clay Lumps & Friable Particles	0.00%	ASTM C142
Lightweight Particles	0.00%	ASTM C123
Cleanliness Value (CV)	94	Nevada Test 228

Chip Rock (#7 Coarse Aggregate) continued..
Sieve Analysis

Sieve Size	Percent Passing
1"	100%
3/4"	100%
1/2"	98%
3/8"	61%
#4	2%
#8	1%
#16	1%
#30	1%
#50	1%
#100	1%
#200	0.50%

Functional Characteristics

Property	Specification
Fill Material	#7 Crushed Chip Rock
Source	Sloan, Nevada, USA
Weed-Free Status	NAISMA Certified Weed-Free Source Material
Particle Shape	Angular Crushed Aggregate
Compaction Characteristics	Moderate
Drainage Characteristics	Excellent
Dust Content	Very Low
Freeze-Thaw Durability	Excellent
Non-Hazardous	Yes
Recyclable	Yes
Combustibility	Non-Combustible
Water Solubility	Insoluble
UV Stability	Permanent Mineral Material
Shelf Life	Unlimited When Dry

Washed Gravel (#9 1/2" Nominal Size)

Physical & Material Properties

Property	Specification	Test Method
Material	Crushed Washed Gravel	ASTM C33 / ASTM D448
Classification	ASTM No. 9 Aggregate	ASTM D448
Color	Natural Gray / Tan	
Nominal Size	1/2 in.	
Shape	Angular to Sub-Angular	
Surface Condition	Washed	
Weed-Free Status	NAISMA Certified Weed-Free Source	NV Dept of Agriculture
Organic Content	Negligible	
Combustibility	Non-Combustible	
Water Solubility	Insoluble	
UV Stability	Permanent Mineral Material	
Shelf Life	Unlimited	

Sieve Analysis

Sieve Size	Percent Passing
3/8" (9.5 mm)	100%
#4 (4.75 mm)	87%
#8 (2.36 mm)	34%
#16 (1.18 mm)	7%
#30 (600 µm)	2%
#40 (425 µm)	1%
#50 (300 µm)	1%
#100 (150 µm)	1%
#200 (75 µm)	1.00%

Functional Characteristics

Property	Specification
Fill Material	ASTM No. 9 Washed Gravel
Source	Sloan, Nevada, USA
Drainage Characteristics	Excellent
Compaction Characteristics	Moderate
Dust Generation	Very Low
Moisture Retention	Low
Freeze-Thaw Durability	Excellent
Reusable	Yes
Recyclable	Yes
Non-Hazardous	Yes

Class 4S C-33 Masonry Sand

Physical & Material Properties

Property	Specification	Test Method
Material	Natural Silica Sand	ASTM C33
Classification	Fine Aggregate – Class 4S	ASTM C33
Color	Tan / Natural	
Density (Unit Weight)	116.5 lb/ft ³	ASTM C29
Material Hardness	Quartz Based (Mohs ~7)	Mineral Hardness Scale
Bulk Specific Gravity (SSD)	2.751	ASTM C128
Bulk Specific Gravity (Dry)	2.718	ASTM C128
Apparant Specific Gravity	2.81	ASTM C128
Absorption	1.20%	ASTM C128
Sand Equivalent	96	ASTM D2419
Fineness Modulus	3.09	ASTM C136
Voids in Aggregate	31.20%	ASTM C29
Weed-Free Status	NAISMA Certified Weed-Free Source	NV Dept of Agriculture
Organic Impurities	<3 Max	ASTM C40
Clay Lumps & Friable Particles	0.10%	ASTM C142
Lightweight Particles	0.00%	ASTM C123
Sodium Soundness Loss	0%	ASTM C88

Sieve Analysis

Sieve Size	Percent Passing	ASTM C33 Limits
3/8"	100%	100%
#4	100%	95-100%
#8	82%	80-100%
#16	54%	50-85%
#30	32%	25-60%
#50	17%	5-30%
#100	7%	0-10%
#200	3.30%	0-5%

Functional Characteristics

Property	Specification
Fill Material	ASTM C33 Fine Aggregate
Source	Sloan, Nevada, USA
Organic Content	Weed-Free Certified
Dust Content	Controlled per ASTM C33
Particle Shape	Natural Angular to Sub-Angular
Compaction Characteristics	Excellent

Class 4S C-33 Masonry Sand continued..

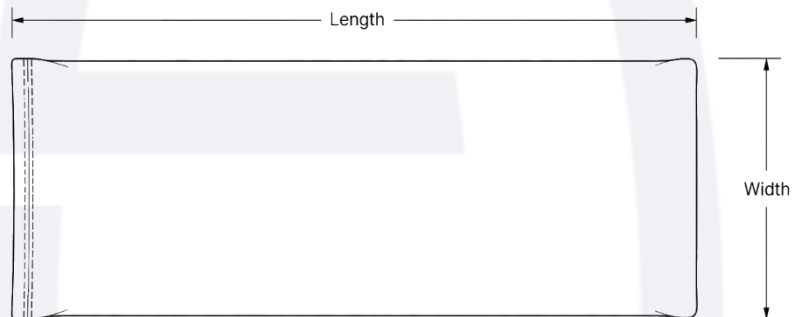
Functional Characteristics

Property	Specification
Drainage Characteristics	Moderate
Freeze-Thaw Durability	Excellent
Non-Hazardous	Yes
Recyclable	Yes
Combustibility	Non-Combustible
Water Solubility	Insoluble
UV Stability	Permanent Mineral Material
Shelf Life	Unlimited When Dry

DIMENSION

WEIGHT (lb)	LENGTH (in)	WIDTH (in)	THICKNESS (in)
0	26.0	14.0	0
30	18.5	12.5	3
40	18.0	12.0	4
50	17.5	11.5	5

TOP VIEW



SIDE VIEW

