POWERBASE/PLAY50®
BY BROCK

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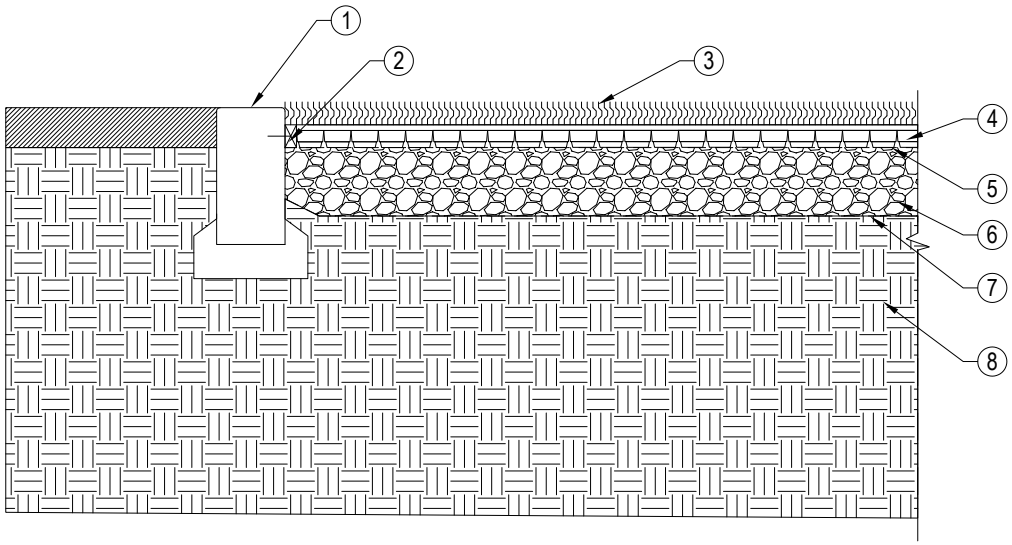
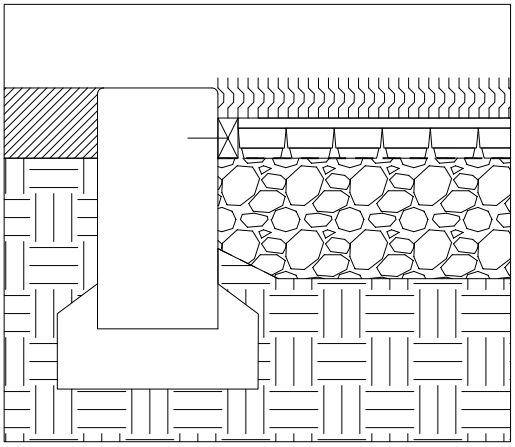


TYPICAL CROSS SECTION

LEGEND:
1. CONCRETE PERIMETER CURB
2. TURF NAILER BOARD
3. INFILLED SYNTHETIC TURF
4. BROCK POWERBASE PLAY50 (PLB50XL)
5. GEOTEXTILE (OPTIONAL)
6. COMPACTED AGGREGATE BASE
7. SOIL ISOLATION FABRIC
8. COMPACTED SUB-GRADE



DETAIL

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DRAWING NOT TO SCALE.
3. THIS DRAWING IS INTENDED FOR CONCEPTUAL PURPOSES ONLY. ALL DIMENSIONS, SIZES, LAYOUTS AND SITE-SPECIFIC GEOTECHNICAL MATERIALS MUST BE DETERMINED BY A LICENSED PROFESSIONAL. THIS DOCUMENT DOES NOT CREATE ANY WARRANTY EXPRESSED OR IMPLIED. LIMITED WARRANTIES WILL BE ESTABLISHED BY SEPARATE DOCUMENTS PROVIDED BY THE VENDOR(S) OF RESPECTIVE MATERIALS.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5406-026

BROCK POWERBASE PLAY

CROSS SECTION - BROCK POWERBASE PLAY50 (PLB50XL)

5406-026

REVISION DATE 29/10/2025

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POWERBASE PLAY
BY BROCK

Typical Properties

Product Number	PLB50XL	
Material Type	Expanded Polypropylene	
Product Format	Panels with edge overlap	
Product Thickness	2.0 in (50.8 mm)	
Part Size, nominal net coverage	23.59 sq ft (2.19 sq m)	
Panel Length	73.5 in (1.87 m)	
Panel Width	49.0 in (1.24 m)	
Panel Weight	5.6 lbs (2.6 kg)	
Tensile Strength†	55 psi	ASTM D3575
Tensile Elongation†	16%	ASTM D3575
Compression Strength† @ 25% strain @ 50% strain	 22 psi 32 psi	ASTM D3575
Vertical Permeability	> 2000 in/hr	EN 12616
Water Absorption† After 24 hr immersion	0.0081 g/cc	ASTM C272
Linear Thermal Expansion† per 1° C per 20° C	 0.08 mm/m 1.65 mm/m	ASTM D696
Flammability†	PASS (< 100 mm/min)	FMVSS 302
Resistance to Chemicals†	1 / 2	JSP Method based on ASTM F925
Microbiological Analysis† bacteria resistance fungi resistance	 no growth no growth	 ASTM G22-76 ASTM G21-96
Environmental Standards Testing Cradle to Cradle Heavy Metals / Mercury VOC's SVOC's CCR Title 22 COEHHA Proposition 65	 Certified Compliant to EPA human health standards, surface water quality, groundwater quality Compliant Compliant	 Cradle to Cradle Products Innovation Institute EPA 6010B, 7470A, 7471A EPA 8260B EPA 8270C

DATA ARE TYPICAL PROPERTIES ONLY. THIS DOCUMENT DOES NOT CREATE ANY WARRANTY, EXPRESS OR IMPLIED

The Brock PowerBase product group includes PowerBase PLAY, PowerBase PRO, and PowerBase YSR

†Properties of molded EPP base material at nominal density of product.

US and international patents and patents pending. www.brockusa.com

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS

SYNAUGUSTINE 347

Our softest, most realistic, most comfortable variety of grass with beautiful multi-colored grass blades incorporating Super Yarn Technology. This grass takes the lead in comfort, strength, and realistic natural turf aesthetics.

SKU	SA347
Grass Zone Yarn/Color	PE / Field Green / Olive / Apple
Grass Zone Denier	9,900 / 9
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	5,000 / 8
Grass Zone Yarn Shape	Soft Omega
Finished Pile Height	1 7/8"
Finished Pile Weight	75 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Total Weight	103 oz.
Tuf Bind	> 8 lbs.
Permeability	> 800 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, SuperDrain+™, Deluster, UV Stabilizers
Test Data	USDA SYSTEM, ASTM D2859, E84, EN71, EN12616, F1015, F1292, F1551, F1951, F2765, RCRA 8 TCLP, CAL 1350

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY*
- OPTIMAL DRAINAGE >800" P/H
- USE IN ALL CLIMATES AND REGIONS
- SAFE FOR CHILDREN AND PETS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 71%

SYNAugustine 347 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE — PETS — PLAY — ROOFTOP

SYNLAWN®
a sportgroup company

SYNAUGUSTINE 347

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Soft Omega
Standard Color	Field Green / Olive / Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green / Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900 / 9
Texturized Thatch Denier / Ends	5,000 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 7/8	inches	D-5823
Face Weight	75	oz/yd^2	D-5848
Total Fabric Weight	103	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	>800	in/hr	D-1551
Fabric Width	15	ft	-