TURF NATION ™

KIEFER® U.S.A.
a DIVERZIFY company
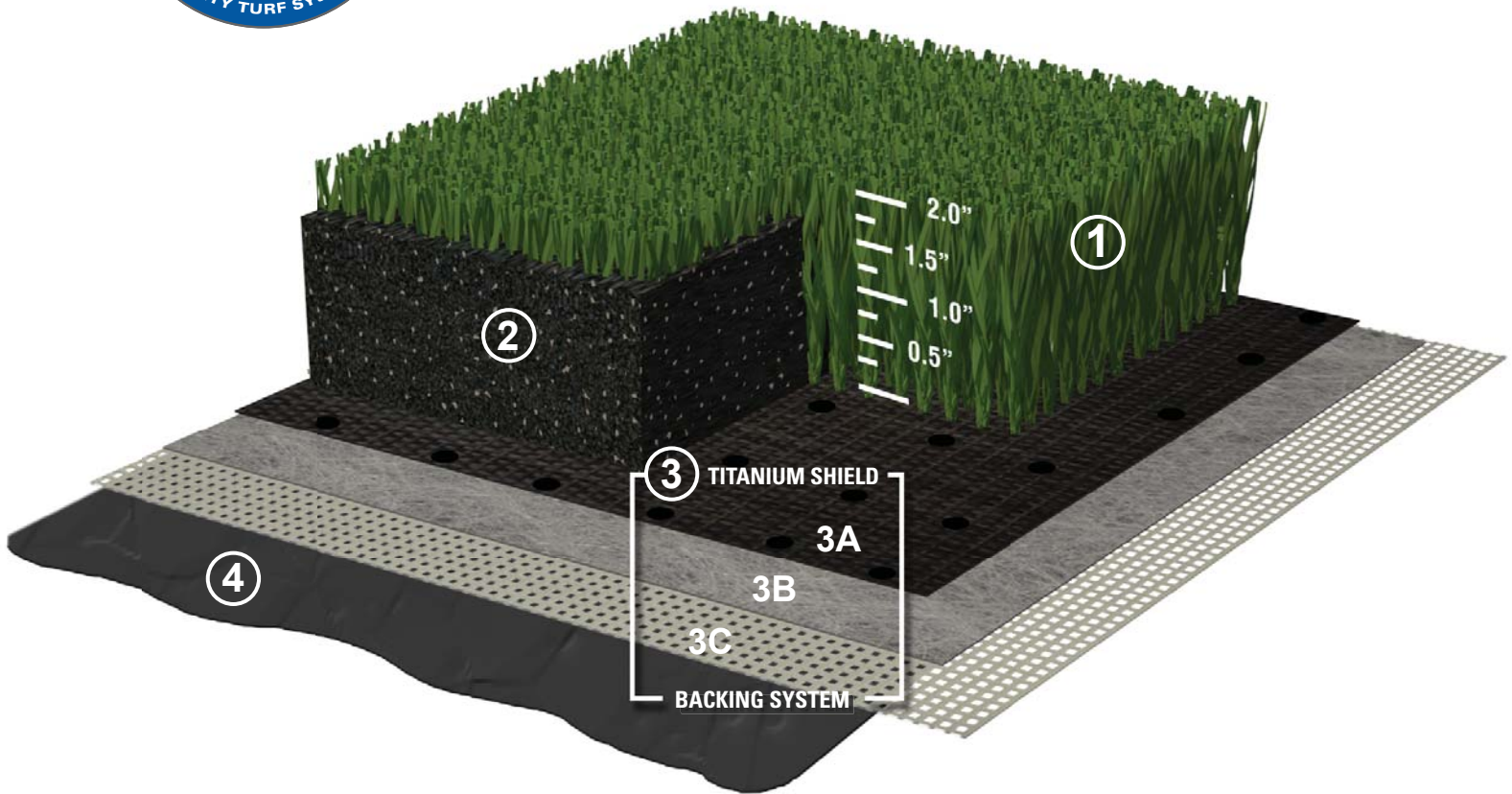
S4

PDS-S4 PRODUCT DATA SHEET

S4 SYNTHETIC TURF SYSTEM

① S4 Parallel Slit Film turf fiber made with TRUE Fiber for unsurpassed durability and performance.

② Specialized infill mixture designed to optimize performance and player safety.

③ **TITANIUM SHIELD BACKING SYSTEM**
Our premier backing system includes multiple layers for long lasting play and performance.
3A. Woven 18-Pic Polybac to secure fiber retention.
3B. Non-Woven 80-Gram Colbond affords maximum dimensional stability.
3C. Woven 5-Pic synthetic layer to enhance seaming properties.

④ Premium grade urethane coating to ensure a superior tuft bind.
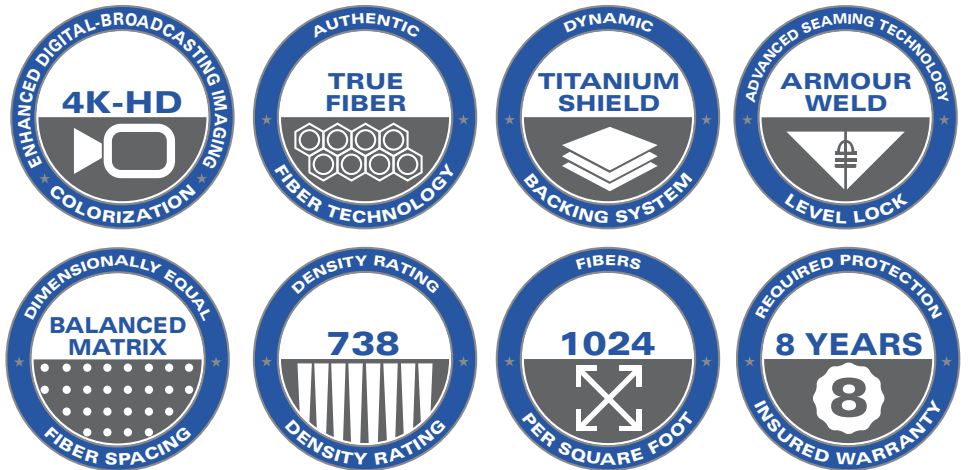
S4

TURF NATION™

The Turf Nation S4 is engineered to be the perfect balance of firm and fast. Available in various fiber profiles, S4 products are designed to enhance player safety. Turf Nation S4 affords your athletes the self-confidence they need to perform to their maximum potential.

2.0" / 51MM FIBER HEIGHT

The S4 surface is also available in 2.25" and 2.50" Pile Height.

S4 FEATURES

ENHANCED DIGITAL-BROADCASTING IMAGING — 4K-HD — COLORIZATION

AUTHENTIC — TRUE FIBER — FIBER TECHNOLOGY

DYNAMIC — TITANIUM SHIELD — BACKING SYSTEM

ADVANCED SEAMING TECHNOLOGY — ARMOUR WELD — LEVEL LOCK

DIMENSIONALLY EQUAL — BALANCED MATRIX — FIBER SPACING

DENSITY RATING — 738 — DENSITY RATING

FIBERS — 1024 — PER SQUARE FOOT

REQUIRED PROTECTION — 8 YEARS — INSURED WARRANTY

SPECIFICATION	GRASS ZONE	PRODUCT SPECIFICATIONS: TA4151APAM
FIBER	TRUE-C8	GRASS ZONE: 41 oz.
FIBER TYPE	AMS SLIT FILM	TRUE FIBER
FIBER HEIGHT	2.0 INCHES / 51 MM	BACKING: 8 oz.
FIBER DENIER	9,000 DENIER / 10,000 DTEX	SECONDARY BACKING: 26 oz.
FIBER MICRONS	115	TOTAL SYSTEM WEIGHT: 75 oz.
FILAMENT STRUCTURE	7 FIBRILS	GRASS ZONE: TRUE, STANDARD COLOR: 4K-HD
FIBRIL WIDTH	0.0472 INCHES / 1.2 MM	SPACING: BALANCED MATRIX

* These specifications are standard and may vary slightly due to manufacturing tolerances or consumer specifications.

STANDARD COLORS

- 4K-HD
- FIELD
- FIELD OLIVE

DESIGNER COLOR PALLETE

- OLIVE
- LIME
- BROWN
- GOLD
- YELLOW
- ORANGE
- RED
- MAROON
- PURPLE
- NAVY BLUE
- BLUE
- LIGHT BLUE
- DARK BLUE
- SILVER
- GRAY
- WHITE
- BLACK

Printed colors only approximate the actual fiber colors. Physical fiber samples are available upon request. Custom colors may also be available, additional charges and minimum quantities may apply to non-standard colors.

	TEST CODE	TEST RESULTS	TEST DESCRIPTION	TEST NAME
PERFORMANCE TESTING	ASTM F355-01	Gmax 107 HIC 315	Gmax RATING	Standard test method for shock-asorbing properties of playing surface systems and materials
	ASTM F1015-03	17 ± 2	RELATIVE ABRASIVE INDEX	Standard test method for relative abrasiveness of synthetic turf playing surfaces
	ASTM F2117-01	29.8 INCHES / 75.7 CM	AVERAGE BALL REBOUND HEIGHT	Standard test method for vertical rebound characteristics of sports surface/ball systems; acoustical measurement
	ASTM F2117-01	0.40 (CR)	COEFFICIENT OF RESTITUTION (CR)	Standard test method for vertical rebound characteristics of sports surface/ball systems; acoustical measurement
	ASTM F1551-03	34.3 INCHES / 87.1 CM	AVERAGE BALL BOUNCE	Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	STATIC COF: 1.40 DYNAMIC COF: 0.90	SOCCER SHOE TRACTION — DRY	Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	STATIC COF: 1.30 DYNAMIC COF: 0.80	SOCCER SHOE TRACTION — WET	Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	STATIC COF: 1.50 DYNAMIC COF: 1.00	FOOTBALL SHOE TRACTION — DRY	Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	STATIC COF: 1.40 DYNAMIC COF: 0.90	FOOTBALL SHOE TRACTION — WET	Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials
SYSTEM TESTING	ASTM D5848-07	75 OZ Y² / 2.54 KG M²	TOTAL WEIGHT	Standard test method for mass per unit area of pile yarn floor coverin
	ASTM D5848-07	41 OZ Y² / 1.39 KG M²	PILE WEIGHT	Standard test method for mass per unit area of pile yarn floor coverings
	ASTM D5848-07	8 OZ Y² / 0.27 KG M²	PRIMARY BACKING WEIGHT	Standard test method for mass per unit area of pile yarn floor coverings
	ASTM D5848-07	26 OZ Y² / 0.88 KG M²	SECONDARY BACKING WEIGHT	Standard test method for mass per unit area of pile yarn floor coverings
	ASTM D5823-05A	2.0 INCHES / 51 MM	PILE HEIGHT	Standard test method for tuft height of pile floor coverings
	ASTM D1335-05	EXCEEDS STC STANDARDS	TUFT BIND STRENGTH	Standard test method for tuft bind of pile yarn floor coverings
	ASTM D5034-09	(MD) 243.0 LBS FORCE / 1,081 N	GRAB TEAR STRENGTH	Standard test method for breaking strength and elongation of textile fabrics (grab test)
	ASTM D5034-09	(CMD) 227.0 LBS FORCE / 1,014 N	GRAB TEAR STRENGTH	Standard test method for breaking strength and elongation of textile fabrics (grab test)
	ASTM D5793-05	9 PER 3 INCHES / 9 PER 7.6 CM	STITCHES PER 3 INCHES	Standard test method for binding sites per unit length or width of pile yarn floor coverings
	ASTM D5793-05	3/8 INCH / 9.5 MM	MACHINE GAUGE	Standard test method for binding sites per unit length or width of pile yarn floor coverings
	ASTM D2859-06	PASS	FLAMMABILITY - PILL BURN	Standard test method for ignition characteristics of finished textile floor covering materials
	ASTM E648-08B	N/A	FLAMMABILITY - RADIANT PANEL	Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source
	ASTM F1951-09	PASS	WHEEL CHAIR ACCESSIBILITY	Standard specification for determination of accessibility of surface systems under and around playground equipment
	BS7044 - METHOD 4	EXCEEDS 40 INCHES (1016 MM) PER HR	INFILTRATION RATE	Determination of infiltration rate-buffered ponding-type infiltrometer
FIBER TESTING	ASTM D1907-07	9,000 DENIER / 10,000 DTEX	FIBER DENIER	Standard test methods for linear density of textile fibers by the Skein Method
	ASTM D3218-07	0.00450 INCHES / 0.11 MM	FIBER THICKNESS	Standard specification for polyolefin monofilaments
	ASTM D3218-07	0.47 INCHES / 1.2 MM	FIBER WIDTH	Standard specification for polyolefin monofilaments
	ASTM D789-07	248°F / 120°C	FIBER MELTING POINT	Standard test methods for determination of solution viscosities of polyamide (pa)
	ASTM D792-08	0.951	FIBER SPECIFIC GRAVITY	Standard test methods for density and specific gravity (relative density) of plastics by displacement
	ASTM D2256-02(2008)	24.07 LBS / 107.1 N	FIBER BREAKING STRENGTH	Standard test method for tensile properties of yarns by the single-strand method
	ASTM D2256-02(2008)	47.5 %	FIBER ELONGATION	Standard test method for tensile properties of yarns by the single-strand method