TN-S5

TN-S5 PRODUCT DATA SHEET

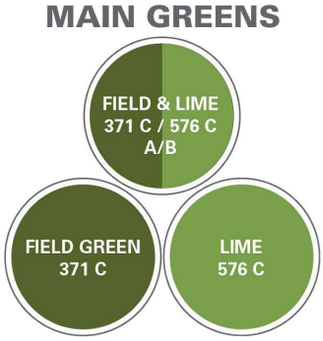
The Turf Nation TN-S5 is engineered to be the ultimate professional grade surface, firm and fast. TN-S5 surfaces are purposefully designed to enhance player performance and maximize safety

TN-S5 FEATURES

SPECIFICATION	GRASS ZONE	PRODUCTION SPECIFICATIONS
FIBER	TRUE-C8	GRASS ZONE: 51 oz.
FIBER TYPE	POLYETHYLENE SLIT FILM	POLYETHYLENE
FIBER HEIGHT	2.5 INCHES / 64 mm	BACKING: 8 oz.
FIBER DENIER	10,000 DENIER / 11,100 DTEX	SECONDARY BACKING: 26 oz.
FIBER MICRONS	110	TOTAL SYSTEM WEIGHT: 85 oz.
FILAMENT STRUCTURE	7 FIBRILS	STANDARD COLOR: FIELD GREEN & FIELD/LIME
FIBRIL WIDTH	0.05514 INCHES / 1.4 mm	AVAILABLE IN OTHER PILE HEIGHTS

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

MAIN GREENS



DESIGNER COLOR PALLETE

*YARN DYE LOTS MAY HAVE SOME VARIATION FROM STATED PANTONE COLORS, PLEASE REQUEST YARN SAMPLES FOR A MORE ACCURATE EXAMPLE OF THE COLORS USED

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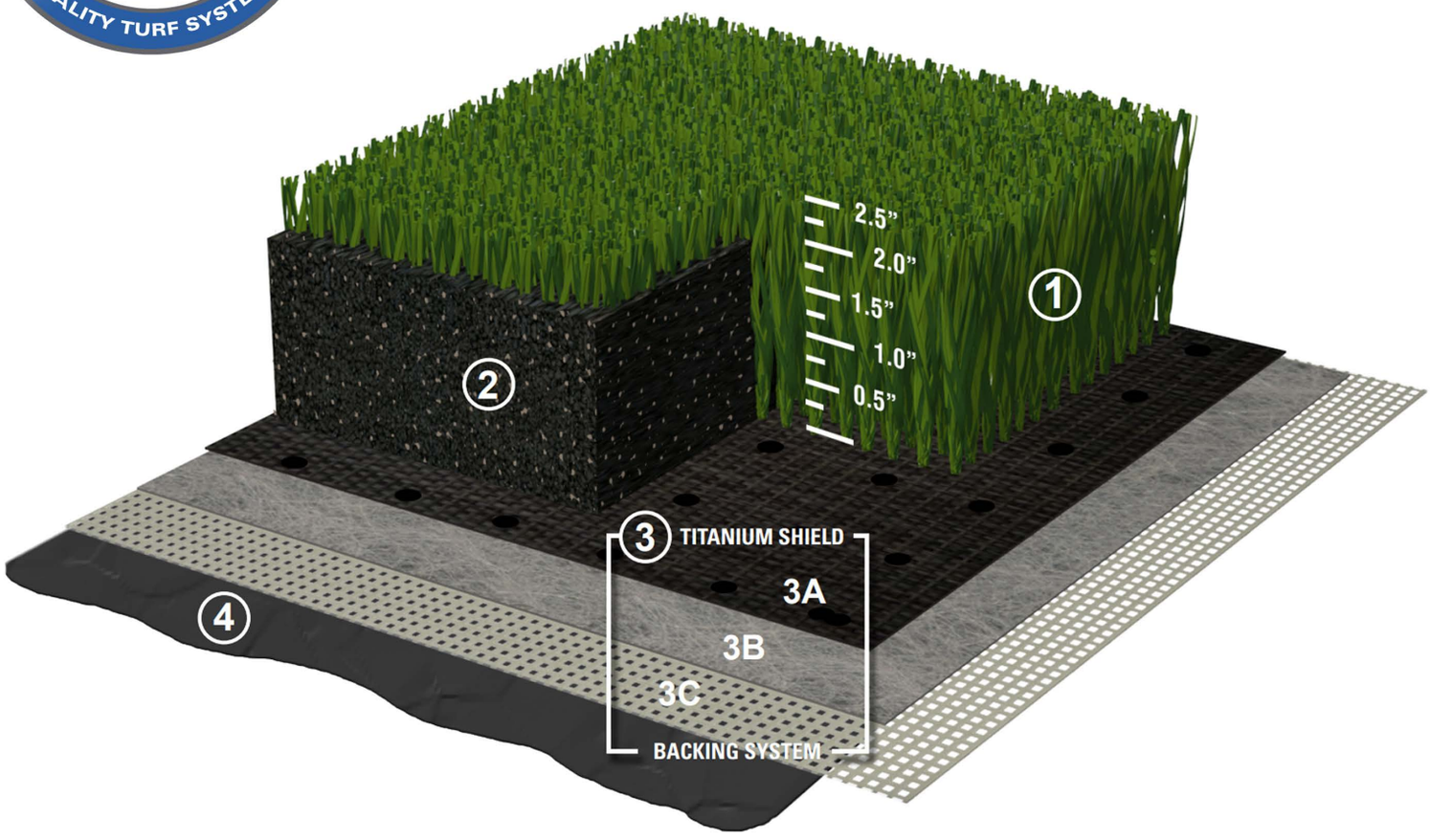
TN-S5 PRODUCT BACKING SHEET



TN-S5 SYNTHETIC TURF SYSTEM

1. **TN-S5** Parallel Slit Film made with TRUE-C8 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

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	TEST CODE	TEST RESULTS	TEST NAME	TEST DESCRIPTION
PERFORMANCE TESTING	ASTM F355-01	Gmax 106 / HIC 314	Gmax Rating	Shock-absorbing properties of playing surface systems and materials
	ASTM F1015-03	16 ± 2	Relative Abrasive Index	Relative abrasiveness of synthetic turf palying surfaces
	ASTM F2117-01	22.9 INCHES / 58.1 cm	Average Ball Rebound Height	Vertical rebound characteristics of sports surface/ball systems; acoustical measurement
	ASTM F2117-01	0.35 (CR)	Coefficient of restitution (CR)	Vertical rebound characteristics of sports surface/ball systems; acoustical measurement
	ASTM F1551-03	26.7 INCHES / 67.8 cm	Average ball bounce	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.50 / Dynamic 1.00	Soccer shoe traction - Dry	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.40 / Dynamic: 0.90	Soccer shoe traction - Wet	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.60 / Dynamic: 1.10	Football shoe traction - Dry	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.40 / Dynamic: 1.00	Football shoe traction - Wet	Comprehensive characterization of synthetic turf playing surfaces and materials
SYSTEM TESTING	ASTM D5848-07	85 oz Y^2 / 2.88 kg M^2	Total Weight	Mass per unit area of pile yarn floor coverings
	ASTM D5848-07	51 oz Y^2 / 1.73 kg M^2	Pile Weight	Mass per unit area of pile yarn floor coverings
	ASTM D5848-07	8 oz Y^2 / 0.27 kg M^2	Primary Backing Weight	Mass per unit area of pile yarn floor coverings
	ASTM D5848-07	26 oz Y^2 / 0.88 kg M^2	Secondary Backing Weight	Mass per unit area of pile yarn floor coverings
	ASTM D5823-05A	2.5 Inches / 63.5 mm	Pile Height	Turf height of pile floor coverings
	ASTM D1335-05	Exceeds STC Standards	Tuft Bind Strength	Tuft bind of pile yarn floor coverings
	ASTM D5034-09	(MD) 264.3 lbs force / 1,175 N	Grab Tear Strength Length	Breaking strength and elongation of textile fabrics (Grab test)
	ASTM D5034-09	(CMD) 232.6 lbs force / 1,034 N	Grab Tear Strength Width	Breaking strength and elongation of textile fabrics (Grab test)
	ASTM D5793-05	8 per 3 inches / 8 per 7.6 cm	Stitches per 3 inches	Binding sites per unit length or width of pile yarn floor coverings
	ASTM D5793-05	3/8 inch / 9.5 mm	Machine Gauge	Binding sites per unit length or width of pile yarn floor coverings
	ASTM D2859-06	PASS	Flammability - Pill Burn	Ignition characteristics of finished textile floor covering materials
	ASTM E648-08B	N/A	Flammability - Radiant Panel	Critical radiant flux of floor-covering systems using a radiant heat energy source
	ASTM DF1951-09	PASS	Wheel Chair Accessibility	Determination of accessibility of surface systems under and around playground equipment
	BS7044-METHOD 4	Exceeds 40 Inches (1016 mm) an hr	Infiltration Rate	Infiltration rate-buffered ponding-type infiltrometer
FIBER TESTING	ASTM D1907-07	10,000 DENIER / 11,100 DTEX	Fiber Denier	Linear density of textile fibers by the Skein Method
	ASTM D3218-07	0.00426 Inches / 0.108 mm	Fiber Thickness	Standard specification for polyolefin monofilaments
	ASTM D3218-07	0.05514 Inches / 1.4 mm	Fibril Width	Standard specification for polyolefin monofilaments
	ASTM D789-07	248° F / 120° C	Fiber Melting Point	Determination of solution viscosities of polyamide (Pa)
	ASTM D792-08	0.959	Fiber Specific Gravity	Density and specific gravity (relative density) of plastics by displacement
	ASTM D2256-02(2008)	15.81 lbs / 70.326 N	Fiber Breaking Strength	Tensile properties of yarns by the single-strand method
	ASTM D2256-02(2008)	64.93%	Fiber Elongation	Tensile properites of yarn by the single-strand method

*All specifications and results subject to manufacturers tolerances

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