



MONDOTURF NSF MONOFIBRE 3NX 50 THERMO AE FTS K-45

Application: Soccer

TECHNICAL DATA

Revision # 0 of 02/02/2010

	TEST METHOD	IMPERIAL UNITS		METRIC UNITS	
		UNIT	AVERAGE VALUES FROM MANUFACTURING CONTROLS	UNIT	AVERAGE VALUES FROM MANUFACTURING CONTROLS
FIBER					
Pile Yarn Type	-	-	Extruded Monofilament	-	Extruded Monofilament
Pile Yarn Composition	-	-	UV-stabilized Polyethylene	-	UV-stabilized Polyethylene
Linear Density	ASTM D1577-01	Denier	11000 ± 5%	Denier	11000 ± 5%
Fibers per Tuft	-	-	6	-	6
Thickness of One Turf Yarn	ASTM D1777-96	μ	210 ± 5%	μ	210 ± 5%
Yarn Melting Point	ASTM D789-98	degrees C	> 100° C	degrees C	> 100° C
Tensile Strength on One Turf Yarn	ASTM D2256-97	lbs	≥ 25	N	≥ 111
Elongation on One Turf Yarn	ASTM D2256-97	%	≥ 60	%	≥ 60
FABRIC					
Pile Height	ASTM D418-93	inches	2 ± 5%	mm	50 ± 5%
Pile Weight	ASTM D5848-05	oz/yd ²	34 ± 5%	gr/m ²	1153 ± 5%
Primary Backing Type	-	-	Thermobonded	-	Thermobonded
Primary Backing Weight	ASTM D5848-05	oz/yd ²	≥ 25	gr/m ²	≥ 848
Total Weight	ASTM D5848-05	oz/yd ²	≥ 59	gr/m ²	≥ 2000
Tufting Gauge	-	inches	5/8	inches	5/8
Stitch Rate	-	tufts/3 inch	8 1/2 ± 5%	tufts/m ²	8783
Tuft Bind	ASTM D1335-98	lbs	> 12	N	> 53
Roll Length	-	foot	Upon request	mt	Upon request
Roll Width	-	foot	12.95	mt	3.95
INFILL					
Top Layer - Infill Type	-	-	Ecofill	-	Ecofill
Top Layer - Particle Size	-	US Sieve	8 to 20	mm	0.8 to 2.4
Top Layer - Density of Granules	-	lb/ft ³	87 ± 5%	g/cm ³	1.4 ± 5%
Top Layer - Quantity	-	lbs/ft ²	2.3 ± 10%	Kg/m ²	11 ± 10%
Bottom Layer - Infill Type	-	-	Sand	-	Sand
Bottom Layer - Particle Size	-	US Sieve	20 to 40	mm	0.4 to 0.8
Bottom Layer - Quantity	-	lbs/ft ²	4.1 ± 10%	Kg/m ²	20 ± 10%
SHOCK-DRAINAGE PAD					
Thickness	-	inches	0.67 ± 5%	mm	17 ± 5%
Weight	-	lbs/ft ²	2.0 ± 5%	Kg/m ²	9.7 ± 5%
Shock Absorption	EN 14808	%	45 ± 5%	%	45 ± 5%
Impact Attenuation (Initial)	ASTM F355-95	Gmax	< 150	Gmax	< 150
Roll Length	-	foot	min 66 max 98	mt	min 20 max 30
Roll Width	-	inch	2392	mt	2.0
SYSTEM					
Total Weight	-	lbs/ft ²	8.7 ± 10%	Kg/m ²	42.7 ± 10%
Flame Resistance	ASTM D2859-04	-	Pass	-	Pass
Water Permeability	DIN 18-035, Part 6	Inches/hr	≥ 100	mm/hr	≥ 2835
Abrasive Index	ASTM F1015	-	≤ 35	-	≤ 30
Impact Attenuation (Initial)	ASTM F355-95	Gmax	< 135	Gmax	< 135