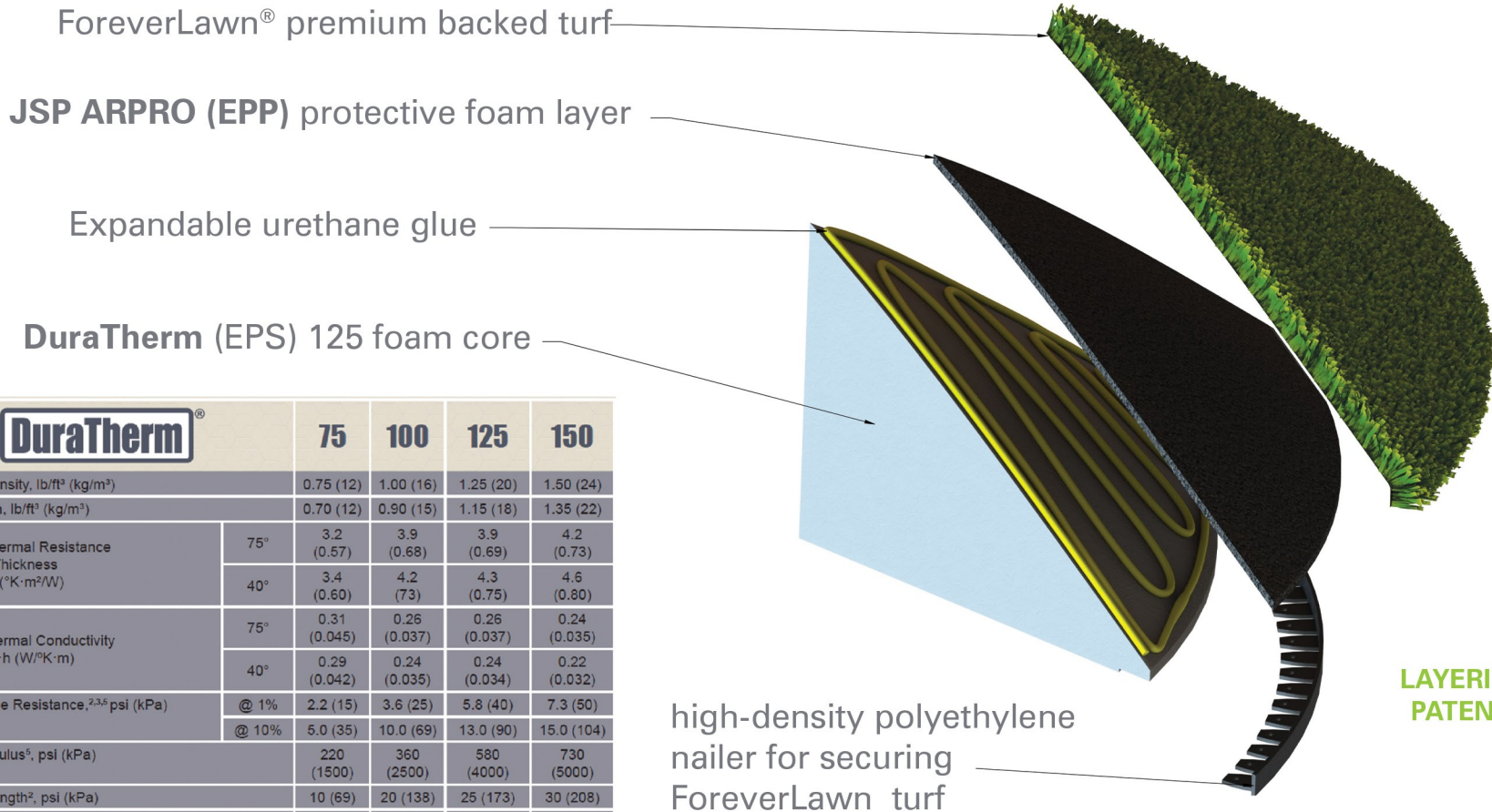


# Playground Grass PlayMound

PlayMound layering system



**LAYERING SYSTEM  
PATENT PENDING**

<b>DuraTherm®</b>		<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
Nominal Density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )		0.75 (12)	1.00 (16)	1.25 (20)	1.50 (24)
Density, min. lb/ft <sup>3</sup> (kg/m <sup>3</sup> )		0.70 (12)	0.90 (15)	1.15 (18)	1.35 (22)
R-value, Thermal Resistance per 1.0 in. Thickness °F-ft <sup>2</sup> -h/Btu (°K-m <sup>2</sup> /W)	75°	3.2 (0.57)	3.9 (0.68)	3.9 (0.69)	4.2 (0.73)
	40°	3.4 (0.60)	4.2 (0.73)	4.3 (0.75)	4.6 (0.80)
k-value, Thermal Conductivity Btu-in/°F-ft <sup>2</sup> -h (W/°K-m)	75°	0.31 (0.045)	0.26 (0.037)	0.26 (0.037)	0.24 (0.035)
	40°	0.29 (0.042)	0.24 (0.035)	0.24 (0.034)	0.22 (0.032)
Compressive Resistance <sup>2,3,5</sup> psi (kPa)	@ 1%	2.2 (15)	3.6 (25)	5.8 (40)	7.3 (50)
	@ 10%	5.0 (35)	10.0 (69)	13.0 (90)	15.0 (104)
Elastic Modulus <sup>6</sup> , psi (kPa)		220 (1500)	360 (2500)	580 (4000)	730 (5000)
Tensile Strength <sup>2</sup> , psi (kPa)		10 (69)	20 (138)	25 (173)	30 (208)
Flexural Strength <sup>2</sup> , psi (kPa)		10 (69)	25 (173)	30 (208)	35 (242)
Shear Strength <sup>2</sup> , psi (kPa)		7 (48)	12 (83)	15.5 (107)	18 (124)
Water Vapor Permeance per 1.0 in. Thickness, perm		5.0	5.0	3.5	3.5
Water Absorption <sup>4</sup> , volume %		0.3	0.3	0.3	0.3
Maximum Long-Term Exposure to Temperature, °F (°C)		165 (74)	165 (74)	165 (74)	165 (74)
Coefficient of Thermal Expansion, x10 <sup>-6</sup> /°F (x10 <sup>-6</sup> /°C)		35 (63)	35 (63)	35 (63)	35 (63)
<b>ASTM C578 Material Type<sup>1</sup></b>		<b>Type XI</b>	<b>Type I</b>	<b>Type VIII</b>	<b>Type II</b>

Covering: Turf  
Material: Polystyrene  
Units: Feet and inches



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Date	02/20
Scale	1:25
Drawing No.	M1470