NEPTUNE™

Rigid Core Waterproof Floors

Synergy Rigid Core

Product Specifications						
Thickness	Width	Length	Wear Layer	Pieces/Ctn	SqFt/Ctn	Carton Weight
5 mm	6.93"	47.75"	22 mil	11	25.27	42.97 lbs

Max Rigid Core vs Standard WPC			
	Standard WPC	**Synergy Rigid Core**	**Results**
Density	1000-1200kg/m^2	1800-2000kg/m^2	Up to **2x** more dense
Indentation (ASTM F1914) The depth of the indentation compared to the thickness	8 - 25% ***FAILED***	0.1 - 3% ***PASSED***	***10 Times*** more indentation resistant
Static Load (ASTM F970) The depth of the indentation	0.005 - 0.08mm	0.001 - 0.005mm	***3 Times*** more static load resistance

Product Description		
Size	Overall Thickness	5mm (including 1.0mm pre-attached pad)
Top Layer	Type	UV cured acrylic top coat with quartz particles. PVC wear layer
	Thickness	22 mil wear layer
Backing	Type	Blue foam backing
	Thickness	1.0mm
Bevel		Painted Bevel
Locking System		Drop-and-Tap (Tight Lock)
Radiant Heat Compatibility		***Yes*** *(See installation instructions for restrictions)
Material Type		Virgin only material

Physical Properties			
Heat Exposure Resistance 180°	ASTM F2199	≤ 0.1%	Pass
Dimension Change (Humidity)	ISO 24339	≤ 0.01%	Class 34, Heavy Commercial
Swelling after water submersion	NALFA LF 01-2011	≤ 0.1%	Class 4, Heavy Commercial
Impact Sound transmission reduction	ASTM E492-09	ASTM E989-6	IIC=69
Airborne Sound transmission reduction	ASTM E90-09	ASTM E413-16	STC=69
Thermal Conductivity	EN 12667	-	Suitable for underfloor heating system
Thermal Resistance (R value)	ASTM C518	-	Suitable for underfloor heating system
Fire Resistance (CHF)	ASTM E648/662	-	Class I