

HydroGen 7.0 Technical Data

PRODUCT INFORMATION:									
Plank Size	(Length x Width x Height)	Bevel	Finish	Underlayment	Gloss Level	Installation	Overall Thickness	Wear Layer Thickness	Radiant Heat
1524mmx228mmx5.5mm/1.5mm ixpe		Painted bevel	Embossed in Register	IXPE 1.5mm	Matte : 4 - 6°	I4F/Click Floating	7.0mm	0.5mm/20mil	Approved for water(temperatures50°C) based radiant heat systems
WARRANTY:					PACKAGING:			PALLET:	
Residential	Commercial	Planks/ Carton	Coverage/ Carton	Carton Dimensions (Length x Width x Height)			Carton Weight	Cartons/ Pallet	Coverage/ Pallet sqft
35years	10years	6	22.44sqft	L1531mmxW235mmxH44mm			24kg	60boxes	1346.4sqft
TESTING:									
Reference		ASTM Norms			Test Request		Result		
Expansion After Exposure to Heat (50°C)		ASTM F2199-09			≤ 0.6mm/m		≤ 0.15mm/m		
Impact sound reduction (IIC)		ASTM E492-09			Based on actual data		IIC=72 , Only for 4.0SPC+1.0IXPE		
STC rating		ASTM E90-09			Based on actual data		STC=73 , Only for 4.0SPC+1.0IXPE		
Reference		ASTM Norms			Test Request		Result		
Determination of Thickness:		ASTM F387 - 17			Tmax-Tmin≤0.5mm, ΔTavg: ≤0.5mm		T _{max} -T _{min} ≤0.4mm, ΔT _{avg} : ≤0.2mm		
Determination of Squareness:		ASTM F2055 - 17			Qmax≤0.25mm		Q _{max} ≤0.1mm		
Determination of Straightness:					Smax≤0.25mm		S _{max} ≤0.1mm/m		
Thickness,wear layer		ASTM F410			0.011 in. (0.27 mm) minimum		0.011 in. (0.27 mm) minimum		
Resistance to heat		ASTM F1514			ASTM F1700, 6.9 Not greater than 8.0 after 7 day exposure to 158°F (70°C)		ΔE ≤ 8		
Resistance to light		ASTM F1515			ASTM F1700, 6.10 Not greater than 8.0 after a 300 hour exposure		ΔE ≤ 8		
Residual indentation		ASTM F1914			Residual Indentation ≤ 8%		Residual Indentation ≤ 8%		
Formaldehyde Emission:		ASTM D6007 - 14			Follow Test Report		Not Detected		
Residual Indentation Static Load:		ASTM F970-17			250 psi, ≤ 0.005 inch		250 psi, ≤ 0.005 inch		
Castor Chair Resistance:		NALFA LF 01-2011			No visible damage		No visible damage		
Wear Resistance:		ASTM D4060 - 19			Follow Test Report		Wear index<50.6 (1000*mg/cycle)		
Dimensional Stability and Curling:		ASTM F2199-09			Max : MD&CD : 1.67mm/m 2 Curling: 2.0mm		Average : MD : 0.6mm/m CD:0.5mm/m, Curling: 0.4mm		
Classification of Smoke Development (Flammability Test):		ASTM E 648-10			Follow Test Report		Class I		
Vertical Burning		UL 94-2013			Follow Test Report		V-0		
Slip Resistance:		ASTM C1028-07			Follow Test Report		Dry: 0.86 Wet: 0.65		
Peel Resistance:		ISO 24345-2006			X Direction: 100N/50mm, Y Direction 75N/50mm		X Direction: 150N/50mm, Y Direction 125N/50mm		
Resistance to Chemicals:		ASTM F925-13			Slight Change maximum in Surface Dulling, Surface Attack, or Staining		Rating 0: No Change		
Soluble Heavy Metal:		ASTM F963			≤100PPM		Not Detected (≤60PPM)		
VOC		FLOOR SCORE			PASS		PASS		
Dimensional Stability of Resilient Floor Tile after Exposure to Heat		ASTM F2055			Squareness = 0.010 inch (0.25 mm) maximum, Size and Tolerance = +		≤ 0.010 in/in ft (≤0.08%)		
Phthalate		ASTM F963			≤1000PPM		Not Detected (≤60PPM)		

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Biyork product specifications are subject to change.
Please always refer to a physical sample for reference.
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