

# HydroGen 7.0 Technical Data

## PRODUCT INFORMATION:

Plank Size <small>(Length x Width x Height)</small>	Bevel	Finish	Underlayment	Gloss Level	Installation	Overall Thickness	Wear Layer Thickness	Radiant Heat
1524mmx228mmx5.5mm/1.5mm ixpe	Painted bevel	Antique Wood Texture	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	<small>Carton Dimensions (Length x Width x Height)</small>		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 <sub>max</sub> -T <sub>min</sub> ≤0.4mm, ΔT <sub>avg</sub> : ≤0.2mm
Determination of Squareness:	ASTM F2055 - 17	Qmax≤0.25mm	Q <sub>max</sub> ≤0.1mm
Determination of Straightness:		Smax≤0.25mm	S <sub>max</sub> ≤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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