

# HydroGen 5 Pro Technical Data - 3mm

PRODUCT INFORMATION:									
Plank Size (Length x Width x Height)		Bevel	Finish	Underlayment	Gloss Level	Installation	Overall Thickness	Wear Layer Thickness	Radiant Heat
1227mm x 187mm x 3.0 mm		Micro Bevel	Overall Embosses	NO	4-6 °	Glue Down	3.0 mm	0.5 mm	Approved for water based radiant heat systems
WARRANTY:			PACKAGING:				PALLET:		
Residential	Commercial	Planks/ Carton	Coverage/ Carton			Carton Weight	Cartons/ Pallet	Coverage/ Pallet sqft	
30	10	16 pcs	39.516 sqft	1234mm x 193mm x 52 mm		20.34 kgs	50 cts	1975.815 sqft	
PHYSICAL PROPERTIES:									
Reference		Method				Result			
Expansion After Exposure to Heat (50°C)		ASTM F2199-09				≤ 0.4mm/m			
TESTING:									
Reference		ASTM Norms				Result			
Determination of Thickness:		ASTM F387 - 17				$T_{max} - T_{min} \leq 0.4 \text{ mm}, \Delta T_{avg} \leq 0.2 \text{ mm}$			
Determination of Squareness:		ASTM F2055 - 17				$Q_{avg} \leq 0.20 \text{ mm}$			
Determination of Straightness:		ASTM F2055 - 17				$S_{Avg} \leq 0.20 \text{ mm/m}$			
Thickness, wear layer:		ASTM F410				0.011 in. (0.27 mm) minimum			
Resistance to heat:		ASTM F1514				$\Delta E \leq 8$			
Resistance to light:		ASTM F1515				$\Delta E \leq 8$			
Residual indentation:		ASTM F1914				Residual Indentation ≤ 8%			
Residual Indentation Static Load:		ASTM F970 - 17				250 psi, ≤ 0.005 inch			
Castor Chair Resistance:		NALFA LF 01 - 2011				No visible damage			
Wear Resistance:		ASTM D4060 - 19				Wear index < 50.6 (1000* mg/cycle)			
Dimensional Stability and Curling:		ASTM F2199 - 09				Average : MD ≤ 1.0 mm/m, CD ≤ 1.0 mm/m, Curling ≤ 1.0mm			
Classification of Smoke Development (Flammability Test):		ASTM E 648 - 10				Class I			
Vertical Burning :		UL 94 - 2013				V-0			
Slip Resistance:		ASTM C1028 - 07				Dry ≥ 0.8, Wet ≥ 0.6			
Activity of Antimicrobial :		ASTM 2180 - 18				Staphylococcus aureus ≥ 95% Escherichia coli ≥ 95% Candida albicans ≥ 98% <small>Only for antibacterial products for 6 months</small>			
Formaldehyde Emission:		ASTM D6007 - 14				Not Detected (≤60 PPM)			
Resistance to Chemicals:		ASTM F925 - 13				Rating 0: No Change			
Soluble Heavy Metal:		ASTM F963				Not Detected (≤ 60PPM)			
VOC:		FLOOR SCORE				PASS			
Phthalate:		ASTM F963				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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