

Specification & Technical Data Sheet		HIGHLANDS FLOW	
Warranty - Subject to limitations and Conditions-			
Residential	30 Year		
Commercial	10 Year		
Specification		Reference	Standard Value
Size:	1227*187mm	EN 428	Pass
Thickness:	2.5mm	EN 428	Pass
Wear Layer:	0.55mm	EN 428	Pass
Gloss:	Normal 3-5°		
Bevel:	Painted Bevel		
Class:	33 (Heavy Commercial Use)		
Inspecting Items		Reference	Standard Value
Appearance			
Damage, Chipping, Wrinkle, Pin hole		GB/T 4085 & EN 649:1996	Not allowed
Delamination, Peeling			Not allowed
Impurity, Bubble, Scratch, Glue Mark, Discolor, Dent, Stain, etc.			Not Visually Apparent (View from 70cm, not more than 1 defect of diameter less < 1mm)
Dimension Characteristic and Deviation Requirement			
Dimension Deviation	Deviation of Length	EN 649:2011 EN 427	Deviation ≤0.13% of nominal length up to 0.5mm.
	Deviation of Width		Nominal Width +/- 0.20 mm
	Deviation of Thickness	EN 649:2011 EN 428	Average value ±0.15mm
Squareness	EN 649:2011 EN 427		≤400mm, ≤0.25mm; >400mm, ≤0.35mm;
Straightness			≤400mm, ≤0.25mm; >400mm, ≤0.35mm;
Physical Characteristics			
Slip resistance		EN13893	Class DS
Wear resistance		EN 660-2	≥4800
Surface Peel Strength		EN 431	≥ 6.5kgf/5cm
Residual Indentation (average)		ISO 24343-1	≤ 0.15 mm
Dimensional Stability After Exposure to Heat		ISO 23999	Heated to 80°C, ≤ 0.15%
Curling After Exposure to Heat		ISO 23999	Heated to 80°C, ≤ 2 mm
Color Fastness		EN ISO 105-B02: 2013	≥ Grade 6
Water Absorption			≤ 3%
Toxic Element Limit			
Chloroethylene/(mg/kg)		GB/T 4085	≤ 5
Heavy Metals (mg/Kg product) (Critical)	Total Lead (Pb)	ASTM F963-11, CPSC-CH-E1002-08.3 section II.A	≤ 100
	SOL Lead (Pb)		≤ 90
	SOL Mercury (Hg)		≤ 60
	SOL Chromium (Cr)		≤ 60
	SOL Arsenic (As)		≤ 25
	SOL Antimony (Sb)		≤ 60
	SOL Barium (Ba)		≤1000
	SOL Selenium (Se)		≤500
	SOL Cadmium (Cd)		≤ 75
TVOC (mg/m³)		CDPH Standard Method V1.1-2010	Per Section 4.0; CDPH Standard Method V1.1-2010
Formaldehyde emission (mg/m³)		CDPH Standard Method V1.1-2010	Per Section 4.0; CDPH Standard Method V1.1-2010
Ortho-Phthalate Content (% w/w) (Critical)	Dibutyl phthalate (DBP), Di(2-ethyl hexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP)	CPSC-CH-C1001-09.3 with GC-MS analysis	Sum < 0.1% w/w
	Di-ido-nonyl phthalate (DINP), Di-n-OCTYL- phthalate (DNOP), Di-ido-decyl phthalate (DIDP)		Sum < 0.1% w/w
	DnHP(DHEXP), DIBP, DnPP(DPENP), DCHP		Sum < 0.1% w/w
Remark			
a) All the above inspected items are required to be done under temperature 23 ±2°C, RH =50 ±10%, and all specimens should be put at least 24 hours in same circumstance.			
Please note the use of anti scratch furniture protection pads are required to prevent your newley installed floor from scratching.			