



Last update: March, 30th, 2016

PRODUCT DESCRIPTION		
Thickness		5mm(include 1 mm cork)
Top layer	Type	UV coat + PVC wear layer + PVC décor layer
	Thickness	Wear layer of 0.3mm
Core	Type	Waterproof thermoplastic composite
	Thickness	3.7mm
	Color	Light brown
	Density	≥ 1200kg/m ³
	Wood content	None
Overall density		≥ 1050kg/m ³
Bevel		Micro bevel
Edges sealer		None
Locking system		Angle/Angle
Type of installation		Floating
Backing	Type	Cork pad
	Thickness	1.0mm
Underfloorheating compatibility		Yes but under certain condition- See installation instruction manual

CHEMICAL COMPOSITION		
Formaldehyde emission		E0 / Carb2
PCP		≤ 1ppm
VOC (ISO 16000)		VOC A+/Floorscore Certified
Prop 65		Pass
REACH	Ortho-phthalates	ND
	Lead	≤ 90ppm
	Mercury/ Chromium VI / Cadmium	ND
	SCCp (C10-C13)	ND
	Benzene/Xylene	ND
	Tributyltin	ND
	PAHs	Meet requirement of product that can be put in mouth

GENERAL QUALITY RELATED NORMS		
Europe		EN 16511/EN 14041
USA		ASTM F1700

DIMENSIONAL TOLERANCE		
Thickness tolerance		+/- 0.2mm
Width tolerance		+/- 0.1mm
Length tolerance		+/- 0.5mm
Height difference		≤ 0.15mm
Gap between planks		≤ 0.20mm
Cupping up		≤ 0.15% of the planks width
Cupping down		≤ 0.2% of the planks width
End lift		≤ 0.5% of the planks length
Bowing		≤ 1.0% of the planks length
Squarness		≤ 0.25mm/ 305mm

PHYSICAL PROPERTIES			
Heat exposure resistance 80°C/180°F	EN-434 ASTM F2199		≤ 2.0% / ≤ 3mm
Heat exposure resistance 60°C/140°F	EN-434 ASTM F2199		≤ 0.15% / ≤ 0.5mm
Swelling after submersion in water	EN 13329		≤ 0.01%
Glue water resistance	100°C/6h waterbath	Pass	
Swelling rate from 10° to 45° C (50° to 113° F)	Factory testing		≤ 0.25%
Temperature change simulation	from 35 to 5°C (95° to 41° F) from 10 to 45°C (50° to 113° F)		max gap 0.25mm, max cupping 0.25mm
Impact sound reduction (IIC)	ASTM E492-09		IIC=70
Sound transmission reduction (STC)	ASTM E90-09		STC=72
Click strength (23°C)	EN 16511		≥50N/50mm
Thermal conductivity	EN 14041		0.07W/(m.k)
Reaction to fire	EN 14041		Class Bfl -S1
Fire resistance (CHF)	ASTM E648/662		0.9 W/cm2 (Class I)

SURFACE PROPERTIES			
Class of use	EN 16511		Residential (class 23), Light commercial (Class 31)
Abrasion	ISO 1518-1		≤ 0.015g/1000 rev
	EN 16511		≥ 4000 rev
Scratch	ISO 1518-1		≥ 3500g
Indentation	ASTM 1914		Average ≤ 8%, Max ≤ 10%
	EN 433		≤ 0.1mm
Impact resistance (big ball)	EN 13329		≥ 1200mm
Static load (250Lbs/115kg)	ASTM F970		≤0.1mm
Surface soundness	EN 311		≥ 1.0N/mm ²
Slipperiness	EN14041		Dry DCOF: 0.57
	ANSI A137-1		Wet DCOF: > 0.42
	D 51130		R10
Colour fastness to light	ISO 105-B02:1994, Method 3a		≥ Grade 6
Resistance to staining	EN 423		Not Affected