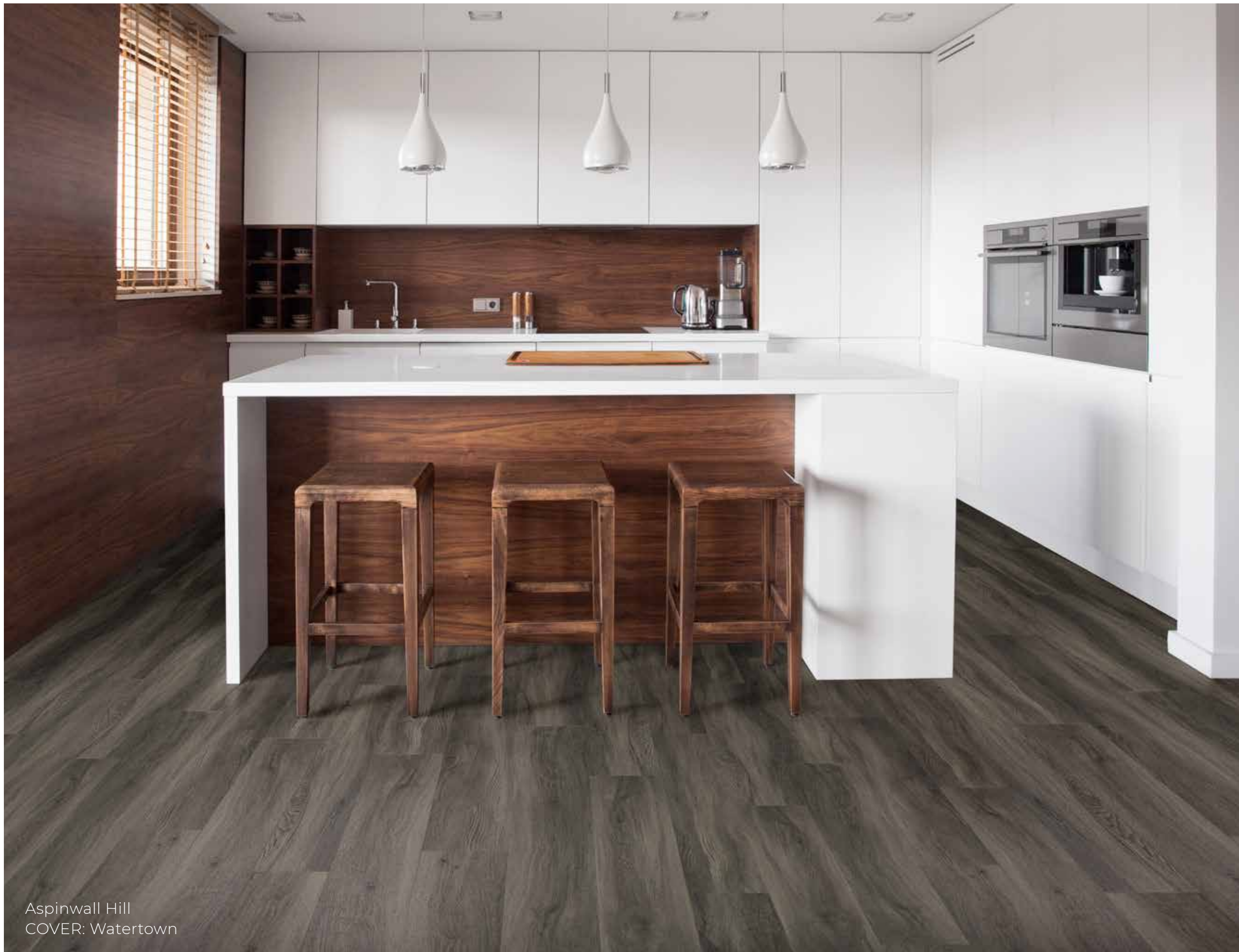


CHESTNUT HILL

MINERALCORE LUXURY VINYL TILE





Aspinwall Hill
COVER: Watertown

TRINITY SURFACES INTRODUCES CHESTNUTHILL MINERALCORE

MINERALCORE luxury vinyl floor's structure is close to LVT, however there are two main aspects that make MINERALCORE very different.

MINERALCORE is mostly made of limestone, rather than PVC. Unlike LVT or WPC products, MINERALCORE contains 0% plasticizers, which are chemical additives used during manufacturing to make the PVC softer and easier to handle. The combination of the two makes for an extra rigid and much more stable product in relation to temperature variations, as well as sunlight and indentation resistance.



Corey Hill

CONTENTS

WHY MINERALCORE 06

- MINERALCORE vs. LVT & WPC..... page 06.
- High Temperature Resistance..... page 09.
- Direct Sunlight Exposure..... page 10.
- No Telegraphing..... page 12.
- Easy Install..... page 13.
- Click Strength | Tight Lock..... page 13.
- Expansion Joints..... page 14.
- Indentation Resistance..... page 16.

QUARTZ FINISH 18

- Scratch Test 3M Pad..... page 18.
- Scratch Test Air Sander..... page 19.

COLOR PALETTE 21

- Allston, Mission Hill, Cambridge, Heath..... page 22.
- Roxbury, Newton, Manet, Olmsted Park..... page 23.
- Watertown, Beaconsfield, Bay Village, Devon..... page 24.
- Aspinwall Hill, Edge Hill, Corey Hill, Riverway..... page 25.
- Fisher Hill, Wellesley, Auburndale, Brighton..... page 26.

TECHNICAL DOCUMENTS 28

- Specification Sheet..... page 28.
- Environment..... page 29.

WHY MINERALCORE

Why is Chestnut Hill more rigid than LVT & WPC?

MineralCore technology is a patented process of extruding the core used in LVT which allows us to take out plasticizers* entirely from the process of making the PVC. This results in a higher ratio of limestone in the composition of the core creating a stronger and more rigid core than ever before. While regular LVT is too flexible to pre-attach a backing, Chestnut Hill comes with an EVA pre-attached backing. No underlay or expensive leveling compounds to purchase.

CHESTNUT HILL MINERALCORE

0% Plasticizers + > 50% Limestone = Extra Rigid & 100% Waterproof Core



*Plasticizers are additives that increase the plasticity or fluidity of a material, mostly used in PVC to make it flexible additives that increase the plasticity or fluidity of a material, mostly used in PVC to make it flexible.

MINERALCORE VS. OTHER GLUE-LESS FLOORING SOLUTIONS

		MINERALCORE LVT	GLUELESS LVT	WPC	LAMINATE
1.	100% WATERPROOF	✓	✓	✓	X
2.	STABLE TO HIGH TEMPERATURES	✓	X	X	✓
3.	STABLE TO SUNLIGHT	✓	X	X	✓
4.	LARGE AREA INSTALLATION WITHOUT TRANSITIONS (6400ft ²)	✓	X	✓	X
5.	EXTRA RESISTANT TO IMPACTS & HEAVY STA	✓	✓	X	✓
6.	NO ACCLIMATION REQUIRED	✓	X	✓	X
7.	NO TELEGRAPHING OF SMALL SUBFLOOR IMPERFECTIONS	✓	X	✓	✓
8.	SUITABLE FOR EVERY ROOM	✓	X	✓	X
9.	MINIMAL SUBFLOOR PREPARATIONS	✓	X	✓	✓
10.	EASY-TO-INSTALL	✓	✓	✓	✓
11.	SOUND ABSORBANT	✓	X	✓	X
12.	PLASTICZER-FREE CORE (no ortho phthalates - Prop 65 compliant)	✓	X	X	✓
13.	VERY LOW VOC EMISSIONS	✓	✓	✓	X
14.	100% RECYCLABLE	✓	✓	✓	X
	TOTAL SCORE	14 / 14	5 / 14	10 / 14	7 / 14

WHY MINERALCORE

Why is Chestnut Hill better than LVT & WPC?

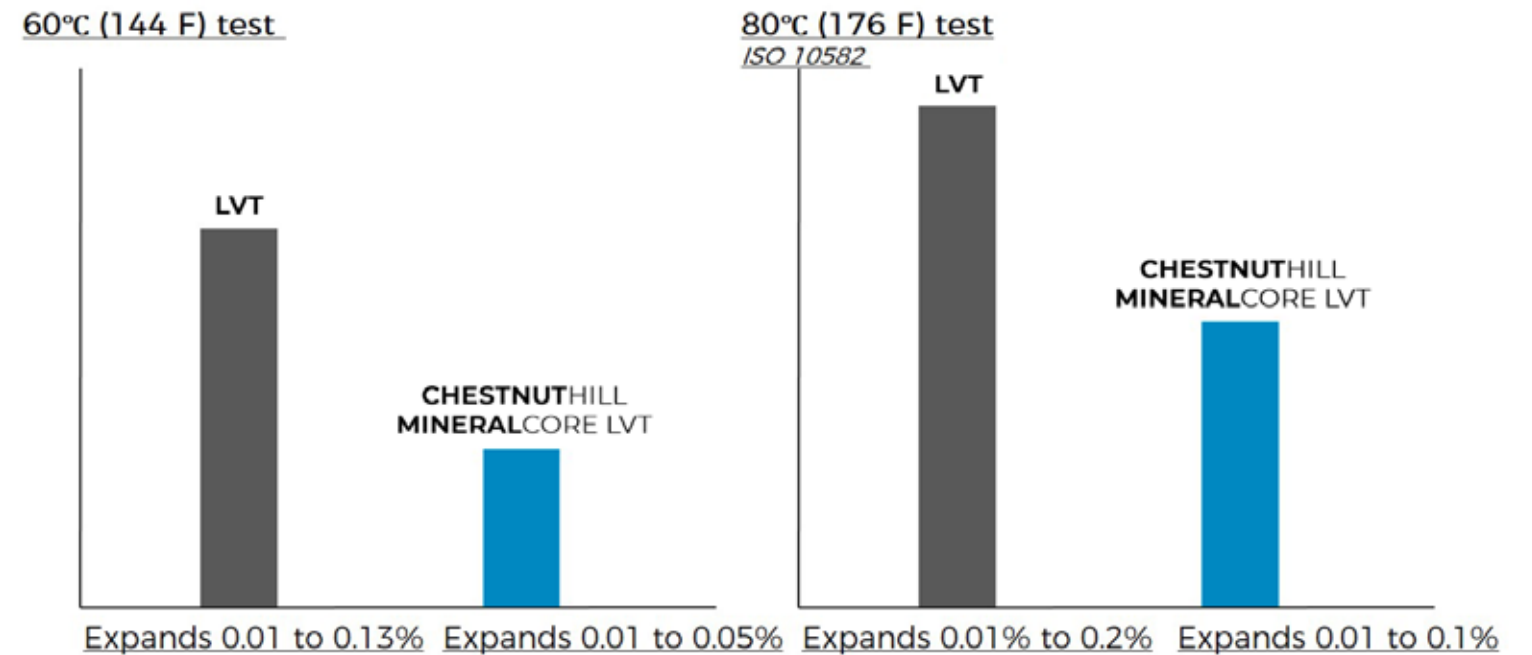
Chestnut Hill's limestone-based core is waterproof, dent-resistant, stable in high temps, environmentally friendly, and recyclable. This unmatched performance, combined with stylish color palette, truly makes Chestnut Hill a top performer for "When Life Happens".



Manet

HIGH TEMPERATURE RESISTANCE

Two times more stable



Less Expansion than LVT

Higher Heat Resistance

2 Times More Stable than LVT

Exposure to direct sunlight

The Chestnut Hill MineralCore construction will withstand direct exposure to sunlight making it suitable in rooms with many windows.

LVT VS. CHESTNUT HILL MINERALCORE

TOP & MIDDLE RIGHT: Standard LVT vs. MineralCore put to the sunlight test at 122 F . LVT Performance after **2 hours** of direct light exposure at 122 F . Result: With LVT the short side are lifting up and gaps are visible

MINERALCORE PERFORMANCE: After **6 hours** of direct light exposure at 122, there is no deformation visible



Aspinwall Hill

No Telegraphing when installed over most existing sub-floors

LVT

Standard LVT telegraphing performance when installed over existing sub-floor.



CHESTNUT HILL MINERALCORE

MineralCore performance with no telegraphing when installed over most existing sub-floors



TILE



CONCRETE



WOOD



Click strength with Tight Lock

Easy Install



CUT WITH A SIMPLE UTILITY KNIFE

No Acclimation necessary If not exposed to extreme temps in the 12 hours before installation

STANDARD LVT



TIGHT LOCK

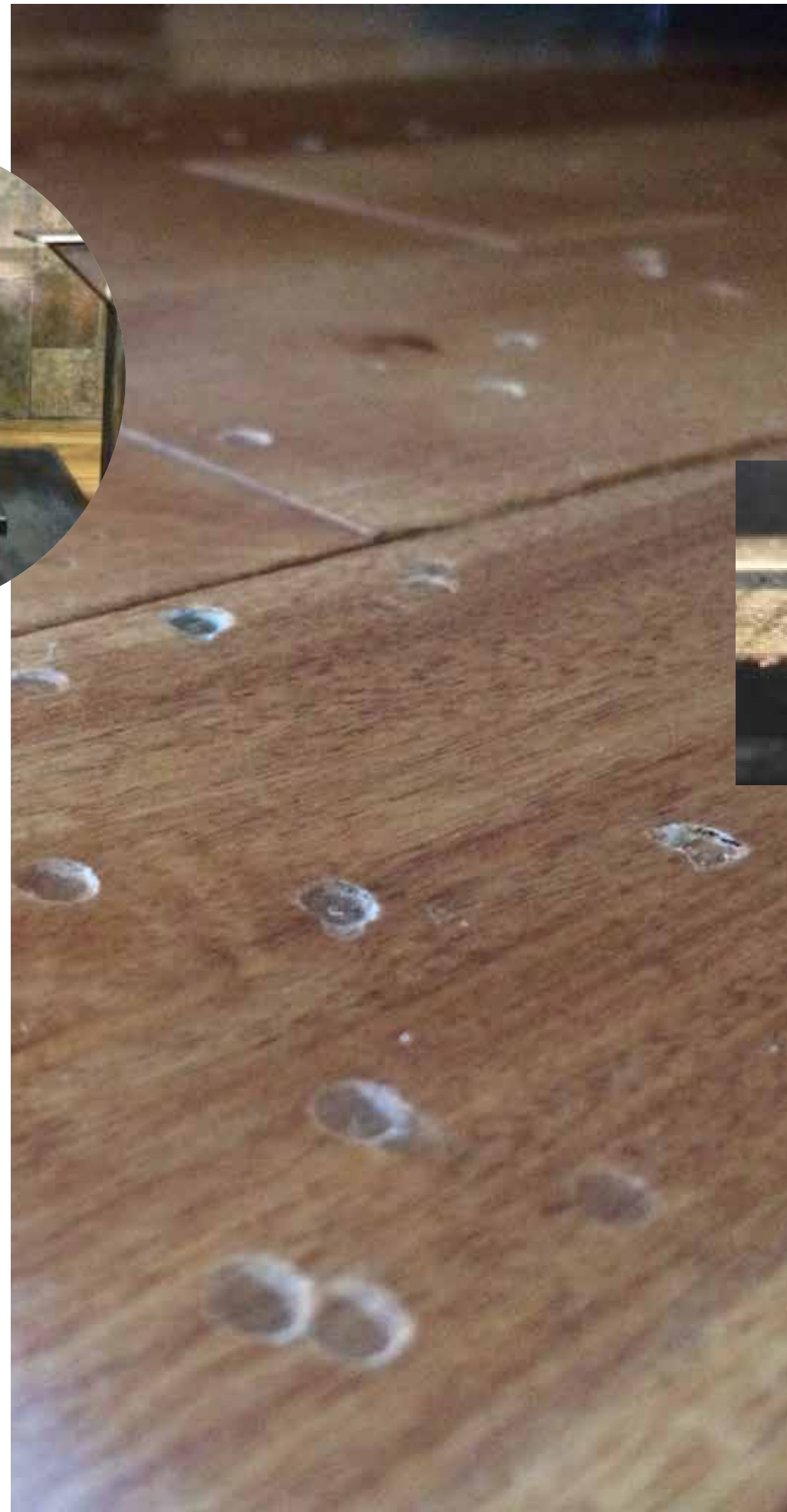
Available with an Easy Tap-Down End Lock for Easy Installation



Large Rooms and Commercial Spaces

Install 6,400 square feet without any unsightly transition moldings





Indentation Resistance

ASTM F1914/ASTM 970/ EN 433/ ISO 24343-1

An indentation head is placed on the top of a sample, weights (steel blocks) are placed above the indentation head. The total weight and indentation head shape can be adjusted as desired in order to reproduce different situations (e.g. chair wheels, high heel shoes, furniture legs, etc). The load time can also be adjusted (e.g. high heel shoes test will only last a few minutes and a furniture legs could last for several days if required).

REGULAR WPC FLOORING HAS A LOW DENSITY, OPEN CORE CELL

Heavy furniture or high heel shoes can leave a marks on the floor, because WPC core gets compressed (the LVT top layer is not compressed at all).

Chestnut Hill has an extremely dense, close-cell core, which makes floor extremely resistant to indentations and impact.

SCRATCH TEST 3M PAD



Before Test:
Two similar planks are prepared. Only one difference between the two planks the left has a regular coating and the right has the Antibacterial Quartz Enhanced UV Cured Finish.

Test:
The two planks are rub by hand with a 3M pad for 30 sec.



Result:
The planks with regular finish are damaged. The surface is full covered by micro scratch which create a white mark. The Quartz Finish is almost not damaged

After Test:
The coating residue on the 3M pad clearly show that anti-scratch finish have a better resistance to scratch

SCRATCH TEST AIR SANDER



Before Test:
Two similar planks are prepared. Only one difference between the two planks the left has a regular coating and the right has the Antibacterial Quartz Enhanced UV Cured Finish.

Test:
Air sander with sanding #320 paper.

Result:
Both planks are scratched for 5sec with the air sander. New #320 paper is used for each planks. After testing, the anti-scratch coating is almost not damaged but the regular coating is full of micro scratch which creates a white mark on the surface.



Close up view:
After testing, the anti-scratch finish is almost not damaged but the regular finish is full of micro scratch which creates a white mark on the surface.

Antibacterial UV Cured Quartz Finish

TRY THE COIN TEST

A lot of powder on the coin means that coating has been removed.





CHESTNUTHILL

MINERALCORE LUXURY VINYL TILE

Cambridge



Allston
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Mission Hill
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Roxbury
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Newton
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Cambridge
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Heath
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Manet
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Olmsted Park
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Watertown
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Beaconsfield
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Aspinwall Hill
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Edge Hill
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Bay Village
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Devon
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Corey Hill
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Riverway
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Fisher Hill
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Wellesley
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Auburndale
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Brighton
7"x48"

MINERALCORE TIGHT LOCK
28mil Quartz Finish Wear Layer
4mm Platform with 1mm EVA Backing
Overall Thickness 5mm

AVAILABLE CONSTRUCTIONS
22mil, 12mil, 8mil 6"x48" Glue Down Luxury Vinyl Tile



Fisher Hill

CHESTNUT HILL

PRODUCT DESCRIPTION		
Size	Overall Thickness	5mm (including 1.0mm pre attached underlay)
Top layer	Type	Anti-bacterial, quartz enhanced UV cured coating
	Thickness	Wear layer of 0.5mm (20mil)
Core	Type	Waterproof thermoplastic composite
	Thickness	3.5mm
	Color	Black
	Density	≥ 1900kg/m ³
Backing	Wood content	None
	Type	Natural cork
	Thickness	1mm
Bevel		Regular bevel
Locking system		Fall down (Tight lock)
Type of installation		Floating
Underfloor heating compatibility		Yes but under certain condition- See installation instruction manual
Material Type		Virgin material only

DIMENSIONAL TOLERANCE	
Thickness tolerance	+/- 0.2mm
Width tolerance	+/- 0.1mm
Length tolerance	+/- 0.5mm
Height difference	Handscraped texture ≤ 0.30mm, Others texture ≤ 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
Squareness	≤ 0.25mm/ 305mm

	Norm	Test method	Requirement	Test results	Conclusion
CHEMICAL COMPOSITION					
Formaldehyde emission	CARB EN 14041	ASTM 6007 EN 717-1	≤ 0.11 ppm ≤ 0.124 mg/m ³	Not detected 0.01	Meet CARB phase 2 requirement EO
VOC	Decret No2011-321	ISO 16000	TVOC<1000µg/m ³	31	VOCA+
	DIBT	ISO 16000	TVOC<1000µg/m ³	29	Meet AgBB requirement - U mark certified
	Floorscore	Californian 01350	Within CREL/TAC	Pass - TVOC =35	Floorscore certified (private label available under condition)
Ortho-phthalates	Prop 65	Spectrometry	Ortho-phthalate free	Not detected	Ortho-phthalate free, Comply with Prop 65
Lead	CPSIA	CPSC-CH-E-1002-08	≤ 90ppm	Not detected	Meet children toy regulation
PAHs	EU REACH regulation No.	Spectrometry and chromatography	<1mg/kg	0.7	Meet requirement of product that can be put in mouth
PCP	EN 14041	EN 12673	<1ppm	Not detected	Pass
Substances of Very High Concern (SVHC) (mercury, chromium VI, Cadmium, SCCp, benzene, Xylene, tributyltin, etc)	EU REACH regulation No. 1907/2006	Spectrometry and chromatography	≤ 0.1% (w/w)	Not detected	REACH compliant



SURFACE ANTIBACTERIAL PROPRIETY					
MRSA	-	-	-	>99%	More than 99% bacteria reduction
ESBL	-	Antimicrobial activity and efficacy	-	>99%	More than 99% bacteria reduction
E.Coli (Escherichia Coli)	-	-	-	>99%	More than 99% bacteria reduction
S.Aureus (Staphylococcus aureus)	-	-	-	>99%	More than 99% bacteria reduction



PHYSICAL PROPERTIES					
Heat exposure resistance 80° C/180° F	EN 16511	ISO 23999	ΔW/ΔL ≤ 0.25%	0.03%	Class 34, heavy commercial
	ASTM 1700	ASTM F2199	ΔW/ΔL ≤ 0.16%	0.03%	Pass
Dimensional variation (humidity change)	EN 16511	ISO 24339	ΔW/ΔL ≤ 0.15%	ΔW/ΔL ≤ 0.01%	Class 34, heavy commercial
Swelling after submersion in water	EN 16511	ISO 24336	≤ 12%	0%	Class 34, heavy commercial
	NALFA LF 01-2011	NALFA LF 01-2011	≤ 12%	0%	Class 4, heavy commercial
Impact sound transmission reduction	-	ASTM E492-09	ASTM E989-6	IIC=69	IIC=69
	-	ISO 10140-3	ISO EN 717-2	No data	No data
	-	ASTM E2179-9	ASTM E989-6	No data	No data
	-	ISO 10140-1	ISO EN 717-2	No data	No data
Airborne sound transmission reduction	-	ASTM E90-09	ASTM E413-16	STC=69	STC=69
	-	ISO 10140-2	ISO EN 717-1	No data	No data
Locking strength (23°C)	EN 16511	ISO 24334	Long side ≥ 2.0 kN/m, Short side ≥ 3.5 kN/m	Long side = 6.3 kN/m, Short side = 5.4 kN/m	Class 34, heavy commercial
Thermal conductivity	EN 14041	EN 12667	-	0.1 W/(m.k)	Suitable for underfloor heating system
Thermal resistance (R value)	-	EN 12667/ASTM C518	-	0.05 m ² · K/W	Suitable for underfloor heating system
Reaction to fire	EN 14041	EN 13051-1	-	CHF=9, 4kW/m ²	Class Bfl -S1
Fire resistance (CHF)	-	ASTM E648/662	-	0.94 W/cm ²	Class I

SURFACE PROPERTIES					
Wear resistance	-	ISO 1518-1	≤ 0.015g/1000 rev	0.008	Pass
	EN 16511	EN 13329	≥ 4000 cycles	9600	Class 34, heavy commercial
	NALFA LF 01-2011	NALFA LF 01-2011	≥ 6000 cycles	9600	Class 4, heavy commercial
Scratch	-	ISO 1518-1	≥ 2500g	3200g	Pass
Surface bonding	NALFA LF 01-2011	EN311/NALFA LF 01-2011	≥ 1.5 N/mm ²	1.56 N/mm ²	Class 4, heavy commercial
Static load	NALFA LF 01-2011	ASTM F970	≥ 13.8Mpa (2000psi/450kg)	0.05mm - Pass	Class 4, heavy commercial
Residual indentation	ASTM F1700	ASTM F1914	≤ 8% (140 lbs/63kg)	1.90%	Pass
	EN 16511	EN 433/ISO 24343-1	≤ 0.15mm	0.03	Class 34, heavy commercial
Impact resistance (big ball)	EN 16511	EN 13329	≥ 1800mm	≥ 1800	IC3, Class 34, Heavy commercial
	NALFA LF 01-2011	NALFA LF 01-2011	≥ 1400mm	≥ 1400	Class 4, heavy commercial
	EN 13329	EN438	≥ 15 N	23	IC3, Class 34, Heavy commercial
Impact resistance (small ball)	NALFA LF 01-2011	NALFA LF 01-2011	≥ 500mm (19.7 in)	1000	Class 4, heavy commercial
	EN14041	EN 13893	DryCOF ≥ 0.3	0.51	Class DS
Slipperiness	-	ASTM C1028	≥ 0.5	Dry: 0.8, Wet: 0.76	Meet ADA recommendation
	-	D 51130	≥ R9	R9	Anti-slip resistance R9 (stone embossed can reach R10)
Colour fastness to light	EN 13329	ISO 105-B02:1994, Method 3a	≥ Grade 6	≥ 6	Pass
	NALFA LF 01-2011	NALFA LF 01-2011	Slight change only	Slight change only	Class 4, heavy commercial
Resistance to staining	EN 16511	EN 438-2	Group 1 and 2: grade 5, group3: grade 4	Group 1 and 2: grade 5, group3: grade 4	Class 33, Heavy commercial
	ASTM F1700	ASTM F925	Slight change only	Slight change only	Pass
	NALFA LF 01-2011	NALFA LF 01-2011	Slight change only	Slight change only	Class 4, heavy commercial

LEED SCORECARD

LEED was developed to address all buildings everywhere, regardless of where they are in their life cycle. From hospitals to data centers, from historical buildings to those still in the design phase, there is a LEED certification program for every building. Our products will contribute value to a building's LEED v4 Scorecard in the following LEED certification program categories recognized by the USGBC as per following

LEED program certification	Category	Credit title	LEED points attainable	Credit description	How our product contribute to obtain LEED points
	Indoor Environmental Quality	Credit 1: Enhanced Indoor Air Quality Strategies - Option 2 Additional Enhanced IAQ Strategies - option D	1 point ID&C, 2 points Retail CI	To reduce concentrations of chemical that can damage air quality, human health, productivity, and the environment.	1. Formaldehyde emission are less than 0.05mg/m ³ , TVOCs are less than 0.5mg/m ³ . 2. The product is Floorscore certified.
		Credit 2: Low-Emitting Materials - Option1 Flooring	1 point		1. VOC emission are less than 0.5mg/m ³ . 2. The products is Floorscore certified.
		Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing	2 points	To establish better quality indoor air in the building	1. Formaldehyde emission are less than 0.05mg/m ³ , TVOCs are less than 0.5mg/m ³ . 2. The product is Floorscore certified.
		Credit 9: Acoustic Performance	2 points	To provide effective acoustic design	The product has a high acoustic performance. IIC and STC test report are available on request
	Material & Resource	Credit 3: sourcing of raw material - Recycled Content - Option 2	1 point	Increase demand for building products that incorporate recycled content materials	The products has a Natural Cork Underlay pre attached. Natural cork underlay contains at least 95% pre-consumer content
		Credit 4: Material ingredient - Option 2	1 point	Minimize the use and generation of harmful substances	The product is 100% REACH compliant
		Credit 6 - PBT source reduction: lead, cadmium and copper	1 point	To reduce the release of persistent, bioaccumulative, and toxic chemicals	The product is free of lead, cadmium and copper
Applies to buildings that are being newly constructed or going through a major renovation; includes New Construction, Core & Shell, Schools, Retail, Hospitality, Data Centers, Warehouses & Distribution Centers, and Healthcare		Credit 3: Purchasing - Facility maintenance and renovation	1 point	To reduce the environmental harm from materials used in building renovations	1. The product is 100% REACH compliant 2. Formaldehyde emission are less than 0.05mg/m ³ , TVOCs are less than 0.5mg/m ³ . 3. Test report according to ISO 16000 is available on request. 3. The product is Floorscore certified.

LEED program certification	Category	Credit title	LEED points attainable	Credit description	How our product contribute to obtain LEED points
	Indoor Environmental Quality	Credit 2: Contaminant Control - Option 4 Air Testing	1 point	Demonstrate that contaminants do not exceed concentration levels listed	The products is Floorscore certified.
		Credit 7: Low-Emitting Materials	0.5 point	To reduce occupants' exposure to airborne chemical contaminants	The product is Floorscore certified and meet the requirements of CA Section 01350. The product is made with ULEF or non-added formaldehyde material
	Material & Resource	Prerequisite - Durability management	0 point (Prerequisite)	To promote durability and performance of the building	The product is water resistant
	Indoor Environmental Quality	Credit 1: Enhanced Indoor Air Quality Strategies - Option 2 Additional Enhanced IAQ Strategies - option D	1 point ID&C, 2 points Retail CI	To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.	1. Formaldehyde emission are less than 0.05mg/m ³ , TVOCs are less than 0.5mg/m ³ . 2. The product is Floorscore certified.
		Credit 2: Low-Emitting Materials - Option1 Flooring	1 point		1. VOC emission are less than 0.5mg/m ³ . 2. The products is Floorscore certified.
	Material & Resource	Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing	2 points	To establish better quality indoor air in the building	1. Formaldehyde emission are less than 0.05mg/m ³ , TVOCs are less than 0.5mg/m ³ . 2. The product is Floorscore certified.
Applies to projects that are a complete interior fit-out; includes Commercial Interiors, Retail and Hospitality		Credit 9: Acoustic Performance	2 points	To provide workspaces and classrooms effective acoustic	The product has a high acoustic performance. IIC and STC test report are available on request
		Credit 4: Material ingredient - Option 2	1 point	Minimize the use and generation of harmful substances	The product is 100% REACH compliant

WELL certified

The WELL Building Standard is founded on the understanding that facets of our environment interact with personal, genetic and behavioral factors to shape our overall health and

Feature 01. Air quality standards			
Requirement	Concept score	How our product contribute to obtain WELL level certification	
Part 1. Standards For Volatile Substances	PRECONDITION	a. Formaldehyde levels less than 27ppb (0.027ppm) b. Total volatile organic compounds less than 500µg/m ³ (0.5mg/m ³)	
a. Formaldehyde emission are less than 0.05mg/m ³ . b. The total volatile organic compounds are less than 0.5mg/m ³ .			
Feature 04. VOC Reduction			
Requirement	Concept score	How our product contribute to obtain WELL level certification	

Part 1. Interior Paints and Coatings	The VOC limits of newly applied paints and coating meet one of the following requirements: a. 100% of installed products meet California Air Resources Board (CARB) 2007, Suggested Control Measure (SCM) for Architectural Coatings, or South Coast Air Quality Management District (SCAQMD) Rule 1113, effective June 3, 2011 for VOC content.	PRECONDITION	a. The VOC limits for California Air Resources Board (CARB) are less than 0.11ppm. b. Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.1-2010). The product is FloorScore certified
Part 3. Flooring	The VOC emissions of all newly installed flooring must meet all limits set by the following, as applicable: a. California Department of Public Health (CDPH) Standard Method v1.1-2010.	PRECONDITION	Conforms to the CDPH/EHLB Standard Method v1.1-2010 (California Section 01350), effective January 1, 2012, for the school classroom and private office parameters when modeled as Flooring. The product is FloorScore certified
Feature 11. Fundamental Material Safety			
Requirement		Concept score	How our product contribute to obtain WELL level certification
Part 1. Asbestos and Lead Restriction	All newly-installed building materials meet the following materials composition requirements:	PRECONDITION	a. No asbestos b. The product contain less than 100 ppm.
Part 2. Lead Abatement	For repair, renovation or painting on buildings constructed	PRECONDITION	The product contain less than 90 ppm.
Part 3. Asbestos Abatement	To reduce hazards in buildings constructed prior to any	PRECONDITION	The product contain less than 90 ppm.
Feature 25. Toxic Material Reduction			
Requirement		Concept score	How our product contribute to obtain WELL level certification
Part 2. Flame Retardant Limitation	Halogenated flame retardants are limited in the following components to 0.01% (100 ppm) to the extent allowable by local	OPTIMIZATION	The product don't contain halogenated flame retardants
Part 3. Phthalate (Plasticizers) Limitation	DEHP, DBP, BBP, DINP, DIDP or DNOP (often found in polyvinyl chloride [PVC]) are limited in the following components to 0.01% (100 ppm): a. Flooring, including resilient and hard surface flooring and carpet. b. Wall coverings, window blinds and shades, shower curtains, furniture and upholstery.	OPTIMIZATION	In accordance with US Consumer Product Safety Improvement Act 2008 (CPSIA) (H.R.4040) Title I, Section 108 & California Proposition 65 & Annex XV II item 51&52 of the REACH Regulation (EC) No. 1907/2006 and amendment No. 552/2009, the product contains less than 100ppm.
Part 5. Urea-Formaldehyde Restriction	Urea-formaldehyde presence is limited in the following components to 100 ppm:	OPTIMIZATION	The product contains urea-formaldehyde less than 100ppm.
Feature 74. Exterior Noise Intrusion			
Requirement		Concept score	How our product contribute to obtain WELL level certification
Part 1. Sound Pressure Level	Each regularly occupied space meets the following sound pressure level as measured when the space and adjacent spaces are unoccupied, but within 1 hour of normal business hours:	PRECONDITION	1. The product has IIC = 69 according to the standard ASTM E492-09
Feature 79. Internally Generated Noise			
Requirement		Concept score	How our product contribute to obtain WELL level certification
Part 1. Sound Masking Limits	If sound masking systems are used, sound levels fall within the following range, when measured from the nearest workspace:	OPTIMIZATION	1. The product has IIC = 69 according to the standard ASTM E492-09



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