

٦

OPAL COLLECTION

PRODUCT SPECIFICA	TIONS					
Product	Overall Thickness	5mm (Includii	5mm (Including Pad)			
Dimensions	Width and Length	7″ W x 48.6"	7″ W x 48.6" L			
Packaging (Per Carton)		9 Planks	9 Planks 21.29 Sq.Ft. 36.86 Lbs.			
		High Definitio	High Definition Decor Film			
	Top Layers	Quartz-Enhar	Quartz-Enhanced Acrylic Coating			
		20 Mil Wear	20 Mil Wear Layer			
Construction	Core		4mm Stone Composite Flooring (SCF) - over 70% stone 100% Virgin Material			
	Density	≥ 1900 kg/m	≥ 1900 kg/m3			
	Pad	1 mm Anti-mic	1 mm Anti-microbial EVA Foam			
	Bevel	Painted bevel	Painted bevel			
Installation	Floating Glueless Tap-Down or G	own or Glue-Down				
Under Floor Heating	Approved - See installation manu	al for details.				
Warranty	Lifetime Residential/15 Years Ligh	t Commercial/5 Years C	ommercial			
Test Data						
Static Load	NALFA ANSILF-01-2011	2000 psi Class 4, Heav	2000 psi Class 4, Heavy Commercial			
Heat Exposure Resistance F1700	ASTM F2199 EN16511	0.03% Class 34, Hea	0.03% Class 34, Heavy Commercial			
Swelling after submersion	NALFA LF 01-2011	0% Class 4, Heav	0% Class 4, Heavy Commercial			
Impact Insulation Class	ASTM E492-09	IIC Rating =	IIC Rating = 66			
Sound Transmission Class	ASTM E413-16	STC Rating =	68			
Fire Rating	ASTM E648/ 662	Class I				
Wear Resistance	NALFA LF 01-2011	Class 4, Heav	Class 4, Heavy Commercial			
Residual Indentation F1700	ASTM F1914 EN 16511	Pass Class 34, Hea	Pass Class 34, Heavy Commercial			
Impact Resistance (Big Ball)	NALFA LF01-2011 EN 16511		Class 4, Heavy Commercial IC3, Class 34, Heavy Commercial			
Impact Resistance (Small Ball)	NALFA LF01-2011 EN 16511		y Commercial , Heavy Commercial			
Slip Resistance	ASTM C1028	Dry: 0.8, Wet	0.76 Pass, Meets ADA	A Contraction of the second seco		
Resistance to staining F1700	ASTM F925 NALFA LF01-2011	Pass Class 4, Heav	Pass Class 4, Heavy Commercial			
Chemical Composition						
VOC	FloorScore™	Pass Californi	Pass California 01350			

Ortho-phthalates	Prop 65	Not Detected / In Compliance
Lead	CPSIA	None Detected
Substances of Very High Concern ((Mercury, Chromium VI, Cadmium,	SVHC) SCCp, Benzene, Xylene, Tributyltin, etc.)	Not Detected / REACH Compliant

LEED SCOREC	ARD				
LEED PROGRAM CERTIFICATION	CATEGORY	CREDIT TITLE	LEED POINTS ATTAINABLE	CREDIT DESCRIPTION	HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS
BD + C	building Design and Construction Indoor Environmenta I Quality pplies to buildings that re being newly onstructed or going rrough a major envoration; includes New Construction, Core & hell, Schools, Retail, lospitality, Data Centers, Varehouses & Distribution Matorial &	Credit 1: Enhanced Indoor Air Quality Strategies - Option 2 Additional Enhanced IAQ Strategy - Option D	1 Point ID&C 2 Points Retail Cl	To reduce concentrations of chemicals that can damage air quality, human health, productivity, and the environment.	 Formaldehyde emissions are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. The product is FloorScore[™] certified.
Building Design and Construction		Credit 2: Low-Emitting Materials - Option 1 Flooring	1 Point		 VOC emissions are less than 0.5mg/m3. The product is FloorScore[™] certified.
		Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing	2 Points	To establish better quality indoor air in the building	 Formaldehyde emissions and TVOCs are less than 0.05mg/m3. The product is FloorScore[™] certified.
Applies to buildings that are being newly constructed or going through a major		Credit 9: Acoustic Performance	2 Points	To provide effective acoustic design	The product has a high acoustic performance. IIC and STC test reports are available on request.
renovation; includes New Construction, Core & Shell, Schools, Retail, Hospitality, Data Centers, Warehouses & Distribution		Credit 4: Material ingredient - Option 2	1 Point	Minimize the use and generation of harmful substances	The product is 100% REACH compliant
Centers, and Healthcare		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
O + M Building Operations and Maintenance	Material & Resource	Credit 3: Purchasing - Facility maintenance and renovation	1 Point	To reduce the environmental harm from materials used in building renovations	 The product is 100% REACH compliant. Formaldehyde emissions and TVOCs are less than 0.05mg/m3. The product is FloorScore[™] certified.
HOMES Applies to single family homes, low-rise multi-	Indoor Environmenta I Quality	Credit 2: Containment Control - Option 4 Air Testing	1 Point	Demonstrate that contaminants do not exceed concentration levels listed	The product is FloorScore™ certified.
family (one to three stories), or mid-rise multi- family (four to six stories).	(one to three s), or mid-rise multi-	Credit 7: Low-Emitting Materials	0.5 Point	To reduce occupant's exposure to airborne chemical contaminants	The product is FloorScore™ certified and meets the requirements of CA Section 01350. The product is made with ULEF or non-added formaldehyde material
		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.	 Formaldehyde emissions and TVOCs are less than 0.05mg/m3. The product is FloorScore[™] certified.
ID & C Interior Design and	Indoor	Credit 2: Low-Emitting Materials - Option 1 Flooring	1 Point		 VOC emissions are less than 0.5mg/m3. The product is FloorScore[™] certified.
	Environmenta Quality	Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing	2 Points	To establish better quality indoor air in the building	 Formaldehyde emissions and TVOCs are less than 0.05mg/m3. The product is FloorScore[™] certified.
		Credit 9: Acoustic Performance	2 Points	To provide workspaces and classrooms effective acoustic design	The product has a high acoustic performance. IIC and STC test reports are available on request.
	Material & Resource	Credit 4: Material ingredient - Option 2	1 Point	Minimize the use and generation of harmful substances	The product is FloorScore™ certified.

WELL SCORECARD

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 well-being. By compiling leading practices in building design and management and referencing existing standards and best practice guidelines set by governmental and professional organizations, WELL works to harmonize and clarify existing thresholds and requirements.

AIR

AIR			
	Feature 01. Air Quality	Standards	
REQUIREMENT		CONCEPT SCORE	HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS
Part 1. Standards for Volatile Substances	The following conditions are met: a. Formaldehyde levels less than 27ppb (0.027ppm) b. Total volatile organic compounds less than 500ug/ m3 (0.5mg/m3)	PRECONDITION	a. Formaldehyde emissions are less than 0.05mg/m3 b. Total volatile organic compounds less than 500ug/m3 (0.5mg/m3)
	Feature 04. VOC Re	duction	
REQUIREMENT		CONCEPT SCORE	HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS
Part 1. Interior Paints and Coatings	The VOC limits of newly applied paints and coatings 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 N	Naterial Safety	
REQUIREMENT		CONCEPT SCORE	HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS
Part 1. Asbestos and Lead Restriction	All newly-installed building materials meet the following materials composition requirements: a. No asbestos. b. Not more than 100 ppm (by weight) added lead.	PRECONDITION	a. No asbestos. b. The product contains less than 100 ppm.
Part 2. Lead Abatement	For repair, renovation or painting on buildings constructed prior to any applicable laws banning or restricting lead paint, lead evaluation and abatement.	PRECONDITION	The product contains less than 90 ppm.
Part 3. Asbestos Abatement	To reduce hazards in buildings constructed prior to any applicable laws banning or restricting asbestos, the following testing evaluation and abatement.	PRECONDITION	The product contains less than 90 ppm.
	Feature 25. Toxic Materia	al Reduction	
REQUIREMENT		CONCEPT SCORE	HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS
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 code: a. Window and waterproofing membranes, door and window frames and siding. b. Flooring, ceiling tiles and wall coverings. c. Piping and electrical cables, conduits and junction boxes. d. Sound and thermal insulation. 	OPTIMIZATION	The product does not contain halogenated flame retardants

Limitation	and carpet. b. Wall coverings, window blinds and shades, shower curtains, furniture and upholstery. c. Plumbing pipes and moisture barriers.		Regulation (EC) No. 1907/2006 and amendment No. 552/2009, the product contains less than100ppm.
Part 5. Urea-Formaldehyde Restriction	Urea-formaldehyde presence is limited in the following components to 100 ppm: a. Furniture or any composite wood products. b. Laminating adhesives and resins. c. Thermal insulation.	OPTIMIZATION	The product contains urea-formaldehyde less than 100ppm.
COMFORT			
	Feature 74. Exterior Nois	se Intrusion	
REQUIREMENT		CONCEPT SCORE	HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS
	d Pressure Level d Pressure Level a. Average sound pressure level from outside noise intrusion does not exceed 50 dBA.		1. The product has IIC = 66 according to the
Part 1. Sound Pressure Level	business hours: a. Average sound pressure level from outside noise	PRECONDITION	standard ASTM E492-09
Part 1. Sound Pressure Level	business hours: a. Average sound pressure level from outside noise		
Part 1. Sound Pressure Level REQUIREMENT	business hours: a. Average sound pressure level from outside noise intrusion does not exceed 50 dBA.		