

3.2 MM LUXURY FLOORING

Natural Creations®

Product Information

Construction - Solid Vinyl Tile (Luxury Vinyl Tile / LVT)

International Specifications - ASTM F1700, Class III, Type B embossed surface

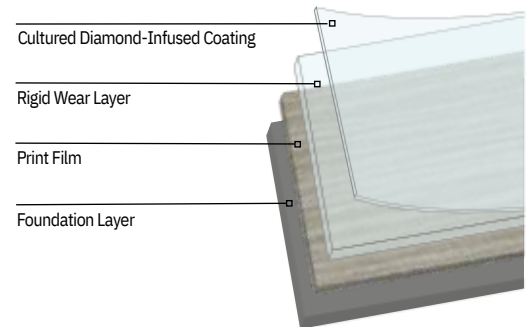
Overall Thickness - 3.2 mm (0.125 in.)

Wear Layer Thickness - 20 mil (0.5 mm)

Factory Finish - Diamond 10® Technology

Installation - Adhesives: S-995, S-319 Roll Strong™, S-1000

Maintenance Options - No Polish - No Buff, Polish Optional



Packaging

Size

12 in. x 24 in. (305 mm x 610 mm)

18 in. x 18 in. (457 mm x 457 mm)

18 in. x 36 in. (457 mm x 914 mm)

6 in. x 36 in. (152 mm x 914 mm)

6 in. x 48 in. (152 mm x 1219 mm)

9 in. x 48 in. (229 mm x 1219 mm)

Pieces per Carton/Coverage

22 - 44 sq. ft. (4.09 m²)

20 - 45 sq. ft. (4.18 m²)

10 - 45 sq. ft. (4.18 m²)

30 - 45 sq. ft. (4.18 m²)

22 - 44 sq. ft. (4.09 m²)

15 - 45 sq. ft. (4.18 m²)

Shipping Weight per Carton

54.53 lbs. (24.73

kg) 55.80 lbs.

(25.31 kg) 55.80

lbs. (25.31 kg)

55.73 lbs. (25.28

kg) 54.50 lbs.

(24.72 kg) 55.77

lbs. (25.30 kg)

Testing

ASTM F1700			
Performance	Test Method	Requirement	Performance vs. Requirement
Thickness	ASTM F386	Nominal ±0.005 in.	Meets
Wear Layer Thickness	ASTM F410	0.020 in. (0.5 mm) minimum for Commercial Use	Meets
Size	ASTM F2421/F2055	± 0.016 in. per linear foot	Meets
Squareness	ASTM F2421/F2055	0.010 in. maximum	Meets
Residual Indentation	ASTM F1914	Average less than 8%	Meets
Chemical Resistance	ASTM F925	No more than slight change in surface dulling, attack or staining	Meets
Resistance to Heat	ASTM F1514	ΔE < 8	Meets
Resistance to Light	ASTM F1515	ΔE < 8	Meets
Additional Testing			
Static Load Resistance	ASTM F970*	< 0.005 in.	2000 psi
Dimensional Stability	Internal	◆ 0.018 in. per linear ft. MD ◆ 0.012 in. per lin. ft. AMD	Meets
Fire Test Data – Flame Spread	ASTM E648	0.45 W/cm² or more Class 1	Meets
Fire Test Data – Smoke Evolution	ASTM E662	450 or less	Meets
Fire Test Data – Canada	CAN/ULC S-102.2	Use dependent	Flame Spread - 10 Smoke Developed - 125
ADA Standards for Accessible Design	Chapter 3, Section 302.1	Floor surfaces shall be stable, firm and slip resistant	Meets
Static Coefficient of Friction**	ASTM D2047/UL 410	◆ 0.5	Meets
Acoustics	ASTM E492 (IIC)	International Building Code (IIC ◆ 50)	6 in. concrete, no ceiling with S-1840
	ASTM E90 (STC)	International Building Code (STC ◆ 50)	Quiet Comfort Luxury Flooring Underlayment
	ASTM E2179 (DELTA IIC)	Sound Transmission Reduction	IIC - 52 STC - 51 Delta IIC - 22

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Natural Creations®

Sustainability

WELL v1 Feature

	Natural Creations	Contribution
Air	✓	Tested and third party certified by FloorScore® as complying with CDPH v1.2
	✓	Product is free of asbestos and added lead (Part 1)
	✓	Free of flame retardants (Part 2) and phthalates (Part 3)
Mind	✓	Readily available Health Product Declaration® (HPD) to 1000 ppm
	✓	Products available that incorporate nature patterns
	✓	Patterns and colors to aid in wayfinding and spatial familiarity (Part 3)

WELL v2 Feature

	Natural Creations	Contribution
Materials	✓	Product is free of asbestos
	✓	Free of flame retardants (Part 2) and phthalates (Part 3)
	✓	Adhesives associated with product are tested and third party certified by FloorScore as complying with CDPH v1.2
	✓	Flooring is tested and third party certified by FloorScore as complying with CDPH v1.2
	✓	Readily available Health Product Declaration (HPD) to 1000 ppm
Mind	✓	Products available that incorporate nature patterns
Community	✓	Provided patterns and colors to aid in wayfinding and spatial familiarity

LEED™ v4.1

	Natural Creations
BPDO - EPD	Third Party certified Product Specific
BPDO - Material Ingredient	HPD
BPDO - Sourcing	29% pre-consumer recycled content
Location of Manufacturer	USA
Low Emitting Flooring	Tested and third party certified by FloorScore as complying with CDPH v1.2
Low Emitting Adhesives	Tested and compliant to CDPH v1.2; Methylene Chloride and Perchloroethylene not intentionally added; FloorScore Certified S-
SCAQMD #1168 Compliant.	319 Roll Strong – 0 g/L
Adhesives meet <50 g/L requirement	S-995 – 0 g/L S-1000 – 0.1 g/L

Carbon Footprint

	Natural Creations
Global Warming Potential, including Biogenic Carbon	0.85 kg CO ₂ eq. / square foot
Raw Materials (A1) through Production (A3)	(9.04 kg CO ₂ eq. / square meter)

Limited Warranty

20-year Commercial Warranty when installed in strict accordance with the detailed instructions.



Ficha técnica

LUXURY FLOORING

NATURAL CREATIONS® Classics

Material

A layered construction consisting of a tough, clear rigid, vinyl wear layer protecting a high-fidelity print layer on a solid vinyl backing. Protected by a UV-cured polyurethane finish, the wear surface is embossed with different textures to enhance each of the printed visuals. Colors are insoluble in water and resistant to cleaning agents and light.

Size

12 in. x 12 in. (305 mm x 305 mm)
16 in. x 16 in. (406 mm x 406 mm)
18 in. x 18 in. (457 mm x 457 mm)
12 in. x 24 in. (305 mm x 610 mm)
18 in. x 36 in. (457 mm x 914 mm)
4 in. x 36 in. (102 mm x 914 mm)
6 in. x 36 in. (152 mm x 914 mm)
6 in. x 48 in. (152 mm x 1219 mm)
8 in. x 36 in. (203 mm x 914 mm)
9 in. x 48 in. (229 mm x 1219 mm)

Gauge (nominal thickness)

0.125 in. (3.2 mm) overall (nominal)
0.020 in. (0.5 mm) wear layer (nominal)

Limitations

Armstrong Luxury Vinyl Tile (LVT) should not be used in the following areas:

- Hospital operating rooms
- Heavy industrial and exterior areas
- Commercial kitchens and commercial food processing areas
- Where pointed spikes such as golf or track shoes will be used

NOTE: Concentrated static and dynamic loads - such as hospital beds, rollout bleachers, portable x-ray machines, etc. - may visibly damage resilient as well as other types of floor coverings. For questions regarding product suitability and detailed instructions for floor preparation and installation in these applications, please contact Armstrong Flooring.

Suitable for Application Over

- Concrete, terrazzo and other dry, structurally sound monolithic subfloors on all grade levels
- Existing resilient flooring
- Suspended wood subfloor construction with approved wood underlayment, and a minimum of 18" (45.7 cm) well ventilated air space below
- Certain metals
- Radiant-heated subfloors with a maximum surface temperature of 85° F (29° C)

Unsuitable for Application Over*

- Subfloors where excessive moisture or alkali are present
- Sleeper-constructed wood subfloors
- Lightweight aggregate concrete subfloors having a density of less than 90 lbs. per cu. ft. (1442 kg/m³) or cellular concrete having a plastic (wet) density less than 100 lbs. per cu. ft. (1602 kg/m³) [94 lbs. per cu. ft. (1506 kg/m³) dry weight] or concrete having a compressive strength of less than 3500 psi (24 MPa). Concrete slabs with heavy static and/or dynamic loads should have higher design strengths and densities calculated to accommodate such loads.

Concrete curing agents, sealers, hardeners or parting agents should be removed.

*This does not necessarily indicate everything that you cannot install over.

TECHNICAL DATA

Shipping Weight

Size	Lbs./Ctn.	Pieces/Ctn.	Sq. Ft./Ctn.
4 in. x 36 in.	51.64 (23.47 kg)	44	44
6 in. x 36 in.	52.75 (23.92 kg)	30	45
8 in. x 36 in.	51.64 (23.47 kg)	22	44
6 in. x 48 in.	52.90 (23.99 kg)	22	44
9 in. x 48 in.	50.04 (22.69 kg)	14	42
12 in. x 12 in.	54.56 (24.74 kg)	45	45
12 in. x 24 in.	51.64 (23.47 kg)	22	44
16 in. x 16 in.	52.14 (23.70 kg)	25	44
18 in. x 18 in.	52.80 (23.94 kg)	20	45
18 in. x 36 in.	52.80 (23.94 kg)	10	45

Gloss (typical value)

60 degrees specular: approximately 5-28

International Specifications

ASTM F 1700, Class III, Type B - Embossed Surface

Meets requirements for product thickness, wear layer thickness, size, squareness, residual indentation, resistance to chemicals and resistance to light and heat.

Static Load Limit

250 lbs./sq. in. (17.6 kg/cm²)

ASTM F 970

NOTE: Floors should be protected from sharp-point loads and heavy static loads. High-heeled traffic [1000 psi (70.3 kg/cm²) or more] may visibly damage wood, resilient and other floor coverings. For questions regarding product suitability and detailed instructions for floor preparation and installation in these applications, please contact Armstrong Flooring.

Fire Test Data

ASTM E 648 Flooring Radiant Panel Critical Radiant Flux -

0.45 watts/cm² or more, Class I

ASTM E 662 Smoke Chamber Specific Optical Smoke Density -

450 or less

Numerical flammability ratings alone may not define the performance of the product under actual fire conditions. These ratings are provided only for use in the selection of products to meet the specified limits.

INSTALLATION

Job Conditions

Subfloors/underlaments shall be dry, clean and smooth. They shall be free of dust, solvents, varnish, paint, wax, oil, grease, residual adhesive, adhesive removers, permanent markers and other foreign materials that might affect the adhesion of resilient flooring or cause a discoloration of the flooring from below.

Spray paints, permanent markers and other indelible ink markers must not be used to write on the back of the flooring material or used to mark the concrete slab as they could bleed through, telegraphing up to the surface and permanently staining the flooring material. If these contaminants are present on the substrate, they must be mechanically removed prior to the installation of the flooring material.

For more detailed requirements of concrete, wood and metal subfloors, as well as trowelable and wood underlaments, refer to the installation instructions on floorexpress.com.

Moisture testing must be performed on all concrete slabs regardless of their age or grade level including areas where resilient flooring has already been installed. Moisture Vapor Emission Rate (MVER) using Calcium Chloride (ASTM F 1869) and/or percent internal relative humidity (ASTM F 2170) tests must be conducted in strict accordance with the most current edition of the ASTM test method. Following are Armstrong Flooring maximum allowable moisture limits for the installation of LVT:

Moisture tests shall not exceed a MVER of 5.0 lbs./1000 sq. ft./24 hours per ASTM F 1869 and/or 80% RH per ASTM F 2170.

When using S-288 Adhesive, moisture test results shall not exceed a MVER of 5.0 lbs./1000 sq. ft./24 hours per ASTM F 1869 and/or 95% RH per ASTM F 2170.

When using S-240 Adhesive, moisture test results shall not exceed a MVER of 8.0 lbs./1000 sq. ft./24 hours per ASTM F 1869 and/or 90% RH per ASTM F 2170.

When using S-310 Roll Strong, moisture test results shall not exceed 90 RH per ASTM F 2170.

When using S-543 High Moisture Adhesive or S-240 Epoxy Adhesive, moisture test results shall not exceed a MVER of 7.0 lbs./1000 sq. ft./24 hours per ASTM F 1869 and/or 90% RH per ASTM F 2170.

On installations where both the Moisture Vapor Emission Rate and percent internal relative humidity tests are conducted, results for both tests shall comply with the allowable limits listed above.

Before installation, concrete floors should also be tested for pH following procedures in ASTM F 710. When testing for pH, the allowable readings for the installation of Armstrong LVT are 5-9 when using S-240 and S-288, and 5-11 when using S-543. Temperature shall be maintained at a minimum of 65° F (18° C) and a maximum of 100° F (38° C) for 48 hours prior to installation, during installation and 48 hours after completion. During the service life of the floor, the temperature should never rise above 100° F (38° C) or fall below 55° F (13° C). Condition all flooring materials and adhesives to room temperature for a minimum of 48 hours prior to starting the installation. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances.

Procedure

Armstrong Natural Creations Classics LVT must be installed using Armstrong® S-310, S-288 or S-543 Adhesives full spread. Natural Creations Classics LVT installed in areas subjected to heavy static and dynamic loads must be installed with Armstrong S-240 Epoxy Adhesive in the field area.

Detailed instructions may be found in the Armstrong Flooring Guaranteed Installation Systems manual, F-5061.

NOTE: Sideline planks are installed with a random stagger; minimum stagger is 6 inches.

MAINTENANCE

Natural Creations Classics LVT is designed to be maintained with a No Polish/No Buff maintenance system or by traditional resilient flooring maintenance methods. The urethane protective finish may make initial maintenance easier, as well as reduce ongoing maintenance procedures.

Initial Maintenance Immediately After Installation

- Sweep, dust mop or vacuum the floor thoroughly to remove all loose dust, dirt, grit and debris.
- Damp mop with a properly diluted neutral detergent solution such as Armstrong® S-485 Floor Cleaner.
- Do not wash the floor for at least four days after installation. Black marks and dirty spots can be treated by spot scrubbing (use nothing more abrasive than a 3M® blue pad* or equal).

Preparation for Commercial Use and On-going Maintenance

Refer to the maintenance methods detailed at floorexpress.com.

WARRANTIES

Limited Warranty

Armstrong Flooring warrants its regular (first quality) commercial floors to be free from manufacturing defects and warrants the installation integrity for twenty years from the date of purchase, if installed according to the installation and maintenance instructions at floorexpress.com. This warranty extends only to the original end-user. See Armstrong Commercial Floor Warranty at floorexpress.com for warranty details, limitations and exclusions.

ArmstrongFlooring.com/commercial | 1 888 276 7876



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Armstrong®
World Industries

GRUNHAUT®

*Refer to the 2016 Product Guide (FP7440F4249) for a quick reference on the product performance, design and sustainability icons.

Adhesives, Installation and Maintenance

Our Luxury Flooring products keep installation time to a minimum, making spaces operational sooner.



S-310 Roll Strong™ Adhesive : 90% RH

- Moisture and alkali resistant
- * Nonflammable, ammonia-free and low odor
- * Suitable for heavy rolling loads
- * Allows immediate traffic

Open time: Until dry-to-touch: approximately 15 minutes or more

Working time: up to 4 hours

Spread rate: 350–400 sq. ft./gallon

Options: 4 gallon



S-543 Commercial Sheet Flooring and LVT Premium Plus Adhesive

High-Moisture: 90% RH, 7lbs. MVER for LVT
5lbs. MVER for Sheet

- High-moisture guarantee
- Reduced need for moisture remediation

Open time: 10–20 minutes over porous,
30+ minutes over non-porous

Working time: 8 hours after dry to touch

Spread rate: 225–275 sq. ft./gal.

Trowel: fine notch and back roll

Options: 1 gallon, 4 gallon



S-240 Epoxy Adhesive

Epoxy: 90% RH, 8lbs. MVER

- Recommended for heavy loads
- Can be used on multiple substrates

Open time: 10–20 minutes

Working time: 60 minutes

Spread rate: 170–190 sq. ft./gal.

Trowel: fine notch

Options: 1/2 gallon, 1 gallon



S-288 Flooring Adhesive

Premium: 95% RH for LVT, 90% RH for Sheet,
8lbs. MVER for LVT
5lbs. MVER for sheet

- Creates a strong permanent bond to your floor
- Easy to trowel

Open time: 10–20 minutes over porous,
30+ minutes over non-porous

Working time: up to 60 minutes

Spread rate: 250–300 sq. ft./gal.

Trowel: fine notch

Options: 1 quart, 1 gallon, 4 gallon

ADHESIVES OPTIONS (Depends on Substrate)

Wood, Concrete	Ceramic, Terrazzo, Marble, Metal	Existing Resilient Floor	MVER Calcium Chloride Test (lbs./1000 sq. ft./24 hrs.)	Relative Humidity In-Situ Probe	pH Readings
Set in wet S-288, S-543 High Moisture, S-240 or or S-310 Roll Strong Adhesive	Set in wet S-240, dry to touch S-288, S-543 High Moisture or or S-310 Roll Strong Adhesive	Dry to touch S-288, S-543 High Moisture or S-310 Roll Strong Adhesive	5 – S-288 7 – S-543 8 – S-240	90% – S-543, S-240, or S-310 Roll Strong Adhesive 95% – S-288	5-9 – S-288, S-240 5-11 – S-543

MAINTENANCE OPTIONS

Low Maintenance/No Polish Option			Traditional	ARMSTRONG FLOOR CARE PRODUCTS		
Spray Buff	Dry Buff	No Buff	Polish	Cleaners	Sealers	Polishes
✓		✓	✓	S-485	S-495	S-480



S-485 Commercial Floor Cleaner

- Neutral floor cleaner at normal dilution, 8.5 pH
- High efficiency allows dilution to as low as 64:1
- Low foaming formula is great for automatic floor machines, damp-mopping, and/or moderate to heavy scrubbing
- Won't strip polish
- Pleasant fragrance
- Contains no phosphates

Spread Rate: Cleaners and strippers do not have a spread rate, dilute according to instructions for proper pH level

Options: 1 gallon (4 gal./ctn.), 5 gallon



S-480 Commercial Floor Polish

- Meets the ASTM D2047 standard for slip-resistance on dry floors
 - High durability for long-lasting protection
 - Dries bright for areas where buffing is not applicable or desired
 - Metal cross-linked acrylic copolymer emulsion polish, 8.5 - 8.75 pH
 - 18% solids for easy application and excellent leveling
- Spread Rate:** 1500 - 2000 sq. ft. gallon per coat depending on the surface characteristics of the floor
- Application:** Excellent buffing response for spray-buffing repairs or high-speed burnishing programs (up to 2,000 rpm)

Options: 1 gallon (4 gal./ctn.), 5 gallon



S-495 Commercial Floor Sealer

- Stain-resistant sealer for porous or well-worn floor surfaces
- Provides an excellent base for S-480 or other commercial floor polishes
- High durability for long lasting protection
- Water-based acrylic emulsion, 7.8 pH
- 16% solids for easy application and excellent leveling
- Semi-permanent for resistance to conventional polish stripping

Spread Rate: 1500–2000 sq. ft. per gallon per coat

Options: 1 gallon (4 gal./ctn.), 5 gallon