Natural Elements Premium Luxury Vinyl Tile & Plank

TECHNICAL DATA

PRODUCT DESCRIPTION

Finish & Appearance	Embossed with UV Cured Ceramic Reinforced Urethane
Nominal Dimensions [1]	4” (10.1 cm) x 36” (91.4 cm) x 1/8” (3.2 mm) 6” (15.2 cm) x 48” (1.2 m) x 1/8” (3.2 mm) 12” (30.5 cm) x 24” (61 cm) x 1/8” (3.2 mm) 18” (45.7 cm) x 18” (45.7 cm) x 1/8” (3.2 mm)
Wear Layer Thickness	Nominal 28 mil (0.7 mm)

PRODUCT PERFORMANCE PROPERTIES

ASTM F1700 – Solid Vinyl Tile	Class III, Type B
ASTM E648 (NFPA 253) – Critical Radiant Flux	Class I, ≥ 0.45 W/cm^2
ASTM E662 (NFPA 258) – Smoke Density	Passes, ≤ 450
CAN/ULC-S102.2 – Surface Burning	30 Flame Spread Rating 250 Smoke Development Classification
ASTM D2047 – Static Coefficient of Friction [2]	≥ 0.50
ASTM F970 – Static Load Resistance [3]	Passes, < 0.005” Indentation @ 250 psi Passes, < 0.005” Indentation @ 2,000 psi Modified
ASTM F925 – Chemical Resistance [4]	Excellent, Additional Chemical List available via chart
ASTM F1914 – Residual Indentation	Excellent, ≤ 8% after 24-hour recovery
ASTM F2199 – Dimensional Stability	Excellent, ≤ 0.020" per linear foot
ASTM F137 – Flexibility	1 Inch Mandrel, No Crack or Break
ASTM F1514 – Heat Stability	ΔE ≤ 8
ASTM F1515 – Light Stability	ΔE ≤ 8
ISO 4918 – Castor Chair Test	Excellent, No Damage or Separation after 25,000 Cycles

ACOUSTICAL PERFORMANCE PROPERTIES [5]

6 INCH CONCRETE SLAB ONLY	
ASTM E492 – Impact Insulation Class (IIC)	≤ 45
ASTM E90 – Sound Transmission Class (STC)	≤ 45
6 INCH CONCRETE SLAB WITH EXCELSIOR CSU-400 UNDERLAYMENT	
ASTM E492 – Impact Insulation Class (IIC)	50
ASTM E90 – Sound Transmission Class (STC)	53
6 INCH CONCRETE SLAB WITH EXCELSIOR CSU-400 UNDERLAYMENT OVER CEILING ASSEMBLY	
ASTM E492 – Impact Insulation Class (IIC)	66
ASTM E90 – Sound Transmission Class (STC)	62

6 INCH CONCRETE SLAB WITH EXCELSIOR FSU-410 UNDERLAYMENT OVER CEILING ASSEMBLY	
ASTM E492 – Impact Insulation Class (IIC)	66
ASTM E90 – Sound Transmission Class (STC)	62

8 INCH CONCRETE SLAB WITH EXCELSIOR CSU-400 UNDERLAYMENT OVER CEILING ASSEMBLY	
ASTM E492 – Impact Insulation Class (IIC)	53
ASTM E90 – Sound Transmission Class (STC)	57

8 INCH CONCRETE SLAB WITH EXCELSIOR FSU-410 UNDERLAYMENT OVER CEILING ASSEMBLY	
ASTM E492 – Impact Insulation Class (IIC)	54
ASTM E90 – Sound Transmission Class (STC)	55

18 INCH OPEN WEB TRUSS WITH EXCELSIOR CSU-400 UNDERLAYMENT OVER GYPSUM TOPPING	
ASTM E492 – Impact Insulation Class (IIC)	52
ASTM E90 – Sound Transmission Class (STC)	56

18 INCH OPEN WEB TRUSS WITH EXCELSIOR FSU-410 UNDERLAYMENT OVER GYPSUM TOPPING	
ASTM E492 – Impact Insulation Class (IIC)	51
ASTM E90 – Sound Transmission Class (STC)	58

PRODUCT INSTALLATION & WARRANTY INFORMATION

Lot Controlled	Yes
Suitable for In Floor Radiant Heat	Yes
Heat Weldable / Required	No
Indoor / Outdoor Suitability	Indoor Use Only
Service & Storage Temperature Range [6]	60° - 85° F
Recommended Adhesives [7]	Excelsior AW-510 Wet-Set Acrylic Adhesive Excelsior PS-525 Modified Pressure Sensitive Adhesive Excelsior U-705 Urethane Adhesive Excelsior EW-710 Urethane Enhanced Two-Part Epoxy Adhesive
Product Warranty [8]	20 Year Limited Commercial Warranty Lifetime Residential / Multi-Family Warranty

ATTRIBUTES, CERTIFICATIONS, & REGULATORY INFORMATION

- Manufactured in Fostoria, Ohio
- Environmental Product Declaration (EPD) Available
- Contributes to LEED v4/4.1 Requirements
- Achieved NSF/ANSI 332 Level 1 Certification
- Achieved GreenGuard Gold Certification
- Achieved FloorScore Certification
- Meets California Department of Public Health V1.2 (CA Section 01350) requirements
- Meets Collaborative for High Performance Schools (CHPS) requirements

- Does Not Contain Recycled Materials
- Qualifies for American Made Products Acts and/or Requirements

SUPPORT & ADDITIONAL DOCUMENTATION

Product Support Phone & Email	(800) 633 – 3151 / info@flexcofloors.com
Technical Support Phone & Email	(844) 393 – 4044 / solutions@rhctechnical.com
Product Technical Documentation	www.flexcofloors.com
Associated or Related Documentation	Excelsior AW-510 Wet-Set Acrylic Adhesive Excelsior PS-525 Modified Pressure Sensitive Adhesive Excelsior U-705 Urethane Adhesive Excelsior EW-710 Urethane Enhanced Two-Part Epoxy Adhesive Referenced Standards within Technical Documents Technical Bulletin Natural Elements Premium Luxury Vinyl Tile Installation Natural Elements Premium Luxury Vinyl Tile Care & Maintenance Flexco Products Warranty

[1] Nominal Dimensions are the marketed dimensions of the product, tolerances are allowed in the manufacturing process and our tolerance range is what is allowed by the ASTM documentation overseeing the product construction.

[2] ADA Standards for Accessible Design states the floor surface shall be stable, firm and slip resistant. Our test results utilize the James Machine as described in ASTM D2047 and as described in UL410 for floor covering materials (FCM) utilizing a leather foot under dry conditions. Maintenance processes and commonly utilized site applied finishes, polishes, and other sealers to maintain resilient flooring products will change the walking surface and ultimately the Static Coefficient of Friction.

[3] ASTM F970 testing at loads above 250 psi is outside the scope of the test method and is considered modified. Modification to the testing process for us is the additional load utilizing the same foot as described in the test method by ASTM. Since testing is conducted on flooring product alone, our stated results do not take into consideration chosen adhesive, any utilized underlayments and/or substrates or subfloors. These results should not be construed as an indicator of installed flooring performance.

[4] ASTM F925 testing is utilized to ensure flooring materials will stand up to certain household standard chemistries. Additional chemical resistance testing performed using this test method is for informational and guidance purposes only. Proper maintenance will influence chemical resistance, but the best defense against a negative effect is to clean the drop/spill from the flooring surface immediately.

[5] Acoustical testing information is provided for information and guidance when selecting flooring materials. Testing is conducted on flooring products with or without underlayments and over laboratory substrates. These results should not be construed as an indicator of installed flooring performance and results.

[6] See installation documents for full installation details regarding approved substrates, job site conditions and acclimation procedures.

[7] Recommended adhesives listed are recommended to be used to obtain the full listed system warranty that includes a bond performance warranty. Material installed with adhesives other than those listed here or an approved option in writing will only have a product manufacturing and wear warranty, no performance or bond warranty.

[8] See product warranty for full details regarding limitations and warranty coverage.

The contents contained within this Technical Data Sheet (TDS) may be utilized or copied into another projected related document, but this original document will remain in effect at the time of product installation, this TDS shall not be supplemented or replaced by the resulting project documentation. **Any alterations to the wording or requirements contained in or derived from this document shall void all related warranties.**

See installation information and documents for full installation details regarding substrates, job site conditions, & acclimation procedures. The intent of this document is to provide technical and performance properties of the mentioned adhesive as well as define the intended method of installation for the products in which the adhesive is approved for use. Any installation guidelines are to be considered as a starting point at a minimum for a successful installation. We rely on the expertise and professionals that are installing the products to adjust based on site conditions. Anything that appears to be a link, is and leads to additional information if necessary or provides a means of contact in the event there are any additional questions. Prior to acceptance of this document refer to the product website to confirm that you have the most current revision.

These products are intended for installation by professionals, prior to use the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability.