

## PRODUCT DESCRIPTION

|                                 |  |
|---------------------------------|--|
| Finish & Appearance             | Embossed with UV Cured Ceramic Reinforced Urethane   |
| Nominal Dimensions <sup>1</sup> | 7 1/8" (18 cm) x 47 1/4" (1.2 m) x 1/8" (3.2 mm)<br>12" (30.5 cm) x 24" (61 cm) x 1/8" (3.2 mm)<br>18" (45.7 cm) x 18" (45.7 cm) x 1/8" (3.2 mm) |
| Wear Layer Thickness            | Nominal 12 mil (0.3 mm)  |

## PRODUCT PERFORMANCE PROPERTIES

|  |   |
|--|---|
| ASTM E648 (NFPA 253) – Critical Radiant Flux             | Class I, $\geq 0.45 \text{ W/cm}^2$   |
| ASTM E662 (NFPA 258) – Smoke Density                     | Passes, $\leq 450$  |
| CAN/ULC-S102.2 – Surface Burning                         | 50 Flame Spread Rating<br>150 Smoke Development Classification                                  |
| ASTM D2047 – Static Coefficient of Friction <sup>2</sup> | $\geq 0.50$   |
| ASTM F970 – Static Load Resistance <sup>3</sup>          | Passes, $< 0.005"$ Indentation @ 250 psi<br>Passes, $< 0.005"$ Indentation @ 2,000 psi Modified |
| ASTM F925 – Chemical Resistance <sup>4</sup>             | Excellent, Additional Chemical List available via chart   |
| ASTM F1914 – Residual Indentation                        | Excellent, $\leq 8\%$ after 24-hour recovery  |
| ASTM F2199 – Dimensional Stability                       | Excellent, $\leq 0.020"$ per linear foot  |
| ASTM F137 – Flexibility                                  | 1 Inch Mandrel, No Crack or Break   |
| ASTM F1514 – Heat Stability                              | $\Delta E \leq 8$   |
| ASTM F1515 – Light Stability                             | $\Delta E \leq 8$   |
| ISO 4918 – Castor Chair Test                             | Excellent, No Damage or Separation after 25,000 Cycles  |

## ACOUSTICAL PERFORMANCE PROPERTIES <sup>5</sup>

### 6 INCH CONCRETE SLAB ONLY

|   |           |
|---|-----------|
| ASTM E492 – Impact Insulation Class (IIC) | $\leq 45$ |
| ASTM E90 – Sound Transmission Class (STC) | $\leq 45$ |

### 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 <sup>6</sup> | 60° - 85° F  |
| Recommended Adhesives <sup>7</sup>               | Excelsior PS-525 Modified Pressure Sensitive Adhesive<br>Excelsior U-705 Urethane Adhesive<br>Excelsior EW-710 Urethane Enhanced Two-Part Epoxy Adhesive |
| Product Warranty <sup>8</sup>                    | 10 Year Limited Commercial Warranty<br>20 Year 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

|  |   |
|--|---|
| <b>Product Support Phone &amp; Email</b>   | (844) 432 – 5885 / <a href="mailto:support@sixdegreesflooring.com">support@sixdegreesflooring.com</a>   |
| <b>Technical Support Phone &amp; Email</b> | (844) 393 – 4044 / <a href="mailto:solutions@rhctechnical.com">solutions@rhctechnical.com</a>   |
| <b>Product Technical Documentation</b>     | <a href="http://www.sixdegreesflooring.com">www.sixdegreesflooring.com</a>  |
| <b>Associated or Related Documentation</b> | <a href="#">Excelsior PS-525 Modified Pressure Sensitive Adhesive</a><br><a href="#">Excelsior U-705 Urethane Adhesive</a><br><a href="#">Excelsior EW-710 Urethane Enhanced Two-Part Epoxy Adhesive</a><br><a href="#">Referenced Standards within Technical Documents Technical Bulletin</a><br><a href="#">Radius Installation Instructions</a><br><a href="#">Radius Commercial Care &amp; Maintenance</a><br><a href="#">Radius Residential Care &amp; Maintenance</a><br><a href="#">Residential Applications</a><br><a href="#">Six Degrees Product Warranty</a> |

<sup>1</sup> 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.

<sup>2</sup> ADA Standards for Accessible Design state 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.

<sup>3</sup> 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 products alone, our stated results do not take into consideration chosen adhesive, any utilized underlays and/or substrates or subfloors. These results should not be construed as an indicator of installed flooring performance.

<sup>4</sup> 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 affect chemical resistance, but the best defense against a negative effect is to clean the drop/spill from the flooring surface immediately.

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

<sup>6</sup> See installation documents for full installation details regarding approved substrates, job conditions and acclimation procedures.

<sup>7</sup> 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.

<sup>8</sup> 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. While 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 and 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. Before accepting 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.