



|   |  |   |                               |                                      |
|---|--|---|-------------------------------|--------------------------------------|
| <b>Test report no.:</b><br><i>Testrapport nr.:</i>  | <b>89218997 001</b>  | <b>Order No.:</b><br><i>Opdracht nr.:</i>   | 218997                        | Page 1 of 5<br><i>Pagina 1 van 5</i> |
| <b>Client Reference No.:</b><br><i>Klantreferentie nr.:</i>   | N/A  | <b>Order date:</b><br><i>Opdrachtdatum:</i>   | 18.05.2021                    |                                      |
| <b>Client:</b><br><i>Klant:</i>   | TRUSA MERMER SAN. TIC. LTD. STİ., Turanköy Mah. Turanköy 7. Sok No: 1, KESTEL/BURSA, Turkey  |   |                               |                                      |
| <b>Test item:</b><br><i>Testvoorwerp:</i>   | SPC Vinyl Floor Covering   |   |                               |                                      |
| <b>Identification/ Type No.:</b><br><i>Benaming / Type nr.:</i>   | SIMPLY SURFACES SPC-CLICK Vinylflooring 4+1mm IXPE 0,55mm  |   |                               |                                      |
| <b>Order content:</b><br><i>Inhoud opdracht:</i>  | Determination of selected parameters   |   |                               |                                      |
| <b>Test specification:</b><br><i>Testomschrijving:</i>  | ISO 8302:1991 / EN 12667:2001, EN 13893:2002, EN 1815:2016<br>The determination of the thermal resistance, slip resistance and the assessment of static electrical propensity, walking test. |   |                               |                                      |
| <b>Date of sample receipt:</b><br><i>Ontvangstdatum monster:</i>  | 31.05.2021   |  |                               |                                      |
| <b>Test sample No.:</b><br><i>Testproefstuk nr.:</i>  | MT21-218997.01   |   |                               |                                      |
| <b>Testing period:</b><br><i>Testperiode:</i>   | 31.05.2021 - 29.06.2021  |   |                               |                                      |
| <b>Place of testing:</b><br><i>Testlocatie:</i>   | Westervoortsedijk 73,<br>6827 AV Arnhem  |   |                               |                                      |
| <b>Testing laboratory:</b><br><i>Testlaboratorium:</i>  | TÜV Rheinland Nederland<br>B.V.  |   |                               |                                      |
| <b>Test result*:</b><br><i>Testresultaat*:</i>  | See Other  |   |                               |                                      |
| <b>tested by:</b><br><i>getest door:</i>  | <input checked="" type="checkbox"/>   |   |                               |                                      |
| <b>Date:</b> 30.06.2021<br><i>Datum:</i>  | Ondertekend door: Michiel van de Vlekkert  | <b>Issue Date:</b> 30.06.2021<br><i>Datum uitgave:</i>                              | Ondertekend door: Ellen Zwier |                                      |
| <b>Position / functie:</b>  | jr. Engineer   | <b>Position / functie:</b>  | Technician                    |                                      |
| <b>Others /</b><br><i>Andere:</i>   | See individual test results.   |   |                               |                                      |
| <b>Condition of the test item at delivery:</b><br><i>Toestand van het test voorwerp bij ontvangst:</i>  | Test item complete and undamaged   |   |                               |                                      |
| * Legend:   | P(ass) = passed a.m. test specification(s)   | F(ail) = failed a.m. test specification(s)  | N/A = not applicable          | N/T = not tested                     |
| * Legenda:  | P(ass) = voldoet aan test omschrijving   | F(ail) = voldoet niet aan test omschrijving   | N/A = niet van toepassing     | N/T = niet getest                    |
| <p><b>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</b></p> <p><i>Dit testrapport heeft alleen betrekking op het voorgenoemde test voorwerp. Zonder toestemming van het testcentrum mag dit testrapport niet in delen worden vermenigvuldigd. Dit keuringsrapport geeft geen recht op het dragen van enig keurmerk.</i></p> |  |   |                               |                                      |

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**Remarks**  
*Opmerkingen*

|   |   |
|---|---|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request. For the influence of the measuring uncertainties on the results, reference is made to the validation of the respective methods.</p> <p><i>De apparatuur welke tijdens de gespecificeerde testperiode is gebruikt, is gekalibreerd volgens ons kalibratieprogramma. De apparatuur voldoet aan de eisen welke zijn opgenomen in de relevante normen. De traceerbaarheid van de gebruikte testapparatuurs is gewaarborgd door naleving van de voorschriften in ons kwaliteitsmanagementsysteem. Gedetailleerde informatie over testomstandigheden, apparatuur en meetonzekerheid is beschikbaar in het testlaboratorium en kan op verzoek worden verstrekt. Voor de invloed van de meetonzekerheden op de resultaten wordt verwezen naar de validatie van de respectievelijke methode c.q. verrichting</i></p>   |
| 2 | <p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and is unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Zoals contractueel overeengekomen is dit document enkel digitaal ondertekend. TÜV Rheinland heeft niet geverifieerd en kan niet verifiëren welke wettelijke of andere vereisten van toepassing zijn op dit document. Een dergelijke verificatie valt onder de verantwoordelijkheid van de gebruiker van het document. Op verzoek van de opdrachtgever kan TÜV Rheinland de geldigheid van de digitale handtekening bevestigen door een apart document. Een dergelijk verzoek moet worden gericht aan onze verkoopafdeling. Voor een dergelijke extra service zal een milieutoeslag in rekening worden gebracht.</i></p>   |
| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Tests clauses marked with <sup>a</sup> are performed under ISO 17025 accreditation. Deviations of testing specification(s), test locations or customer requirements are listed in specific test clause in the report. No opinions or interpretation are included in this report. This test report consists of multiple pages and is only to be read as a whole. The number of pages can be seen in the header on the top right of each page, the report ends when the last page is reached. TÜV Rheinland Nederland B.V. is solely responsible for the content.</p> <p><i>Test onderdelen welke met * zijn gemarkeerd zijn uitbesteed aan gekwalificeerde onderaannemers en zijn beschreven in het respectievelijke test onderdeel van dit rapport. Test onderdelen welke met <sup>a</sup> zijn gemarkeerd zijn onder ISO 17025 accreditatie uitgevoerd. Afwijkingen van testspecificatie(s), testlocaties of klant eisen zijn vermeld in het van toepassing zijnde onderdeel in het rapport. Er zijn geen opinies en interpretaties opgenomen binnen het rapport. Dit rapport bestaat uit meerdere pagina's en dient als geheel gelezen te worden. Het aantal pagina's is rechtsboven in de koptekst van dit rapport vermeld en eindigt wanneer de laatste pagina is bereikt. TÜV Rheinland Nederland is als enige verantwoordelijk voor de inhoud van het rapport.</i></p> |
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**Product description**  
*Product omschrijving*

|   |   |  |
|---|---|--|
| 1 | <b>Product details:</b><br><i>Product details:</i>                  | Product name: SIMPLY SURFACES SPC-CLICK Vinylflooring 4+1mm IXPE 0,55 mm   |
| 2 | <b>Other:</b><br><i>Andere:</i>                                     | Test sample(s), as well sample information, description, product details and intended usage was provided by customer.                                |
| 3 | <b>Test sample obtaining:</b><br><i>Selectie van het proefstuk:</i> | <input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group<br><input type="checkbox"/> others: |

Figure 1: Picture of the received sample (surface)



Figure 2: Picture of the received sample (back)



Test report no.: 89218997 001  
 Testrapport nr.:

| Clause<br>Deel | Requirements - Tests /<br>Vereisten - Tests | Measuring results – Remarks<br>Meetresultaten – Opmerkingen | Result<br>Resultaat |
|----------------|---|---|---------------------|
|----------------|---|---|---------------------|

|  |  |                        |  |  |   |
|--|--|------------------------|--|--|---|
| 1.1.   | <b>Determination of thermal resistance (thermal conductivity)</b><br>ISO 8302:1991 and EN 12667:2001 |                        |  |  |   |
|  | Pre conditioning   |                        | 23 ± 2°C and 50 ± 5% relative humidity   |  |   |
|  | Conditioning period  |                        | ≥ 24 h   |  |   |
|  | Description of used method   |                        | Guarded hotplate, a sample is placed between a cold and a warm plate. The cold and the warm plate are kept at constant temperature. The amount of energy needed to keep the temperature of the warm and cold plate constant is an indication for the heat transmission.                    |  |   |
|  | Requirements according to EN 14041:2004/AC:2005  |                        | Thermal conductivity and resistance values shall be calculated or measured. For floor coverings its common to expressed as the 23 °C value of, either:<br>- Thermal resistance, $R_{23}$ , in m <sup>2</sup> ·K/W, or alternatively<br>- Thermal conductivity, $\lambda_{23}$ , in mW/m·K. |  |   |
|  | <b>Test result(s)</b>  |                        |  |  |   |
|  | Thermal resistance   |                        |  |  |   |
|  | Temperature  |                        | Temperature difference   | Thermal resistance R in m <sup>2</sup> · K/W | P <input type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input checked="" type="checkbox"/><br>N/T <input type="checkbox"/> |
|  | R <sub>18</sub>  | 18 °C                  | 10 K   | 0.034  |   |
|  | R <sub>23</sub>  | 23 °C                  | 10 K   | 0.034  |   |
| R <sub>28</sub>  | 28 °C  | 10 K                   | 0.033  |  |   |
| Thermal conductivity   |  |                        |  |  |   |
| Temperature  |  | Temperature difference | Thermal conductivity $\lambda$ in mW/m.K   |  |   |
| $\lambda_{18}$   | 18 °C  | 10 K                   | 148.38   |  |   |
| $\lambda_{23}$   | 23 °C  | 10 K                   | 150.82   |  |   |
| $\lambda_{28}$   | 28 °C  | 10 K                   | 152.99   |  |   |
| Thermal resistance at 23°C, $R_{23}$ , (m <sup>2</sup> ·K/W) |  |                        | <b>0.034</b>   |  |   |

Test report no.: 89218997 001  
 Testrapport nr.:

| Clause<br>Deel | Requirements - Tests /<br>Vereisten - Tests | Measuring results – Remarks<br>Meetresultaten – Opmerkingen | Result<br>Resultaat |
|----------------|---|---|---------------------|
|----------------|---|---|---------------------|

|                                    |  |   |                    |   |
|------------------------------------|--|---|--------------------|---|
| 1.2.                               | <b>Determination of dynamic coefficient of friction on dry floor surfaces</b><br>EN 13893:2002 |   |                    |   |
|                                    | Remark   | This result can also be used for:<br>SIMPLY SURFACES SPC-CLICK<br>Vinylflooring 4+1mm IXPE 0,30mm |                    |   |
|                                    | Test conditions  | 23 ± 2°C and 50 ± 5% relative humidity  |                    |   |
|                                    | Conditioning period  | ≥ 24 days   |                    |   |
|                                    | Type of test location  | Laboratory  |                    |   |
|                                    | Date of test   | 08.06.2021  |                    |   |
|                                    | Test conditions  | Dry   |                    |   |
|                                    | Pre-treatment  | None  |                    |   |
|                                    | Used slider  | Leather/rubber combination  |                    |   |
|                                    | Requirements according to EN 14041:2004/AC:2005  | ≥ 0,30 μ  |                    |   |
|                                    | <b>Test result(s)</b>  |   |                    |   |
|                                    |  | Length<br>direction   | Width<br>direction | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
| Measurement 1 (μ)                  | 0.44   | 0.47  |                    |   |
| Measurement 2 (μ)                  | 0.42   | 0.44  |                    |   |
| Measurement 3 (μ)                  | 0.41   | 0.42  |                    |   |
| Measurement 4 (μ)                  | 0.41   | 0.38  |                    |   |
| Measurement 5 (μ)                  | 0.39   | 0.37  |                    |   |
| Average measurement 3, 4 and 5 (μ) | <b>0.40</b>  | <b>0.39</b>   |                    |   |

|                     |   |   |  |   |
|---------------------|---|---|--|---|
| 1.3.                | <b>Assessment of static electrical propensity</b><br>EN 1815:2016, method A |   |  |   |
|                     | Test conditions   | 23 ± 1°C and 25 ± 2% relative humidity  |  |   |
|                     | Conditioning period   | ≥ 7 days                                |  |   |
|                     | Sole material   | Rubber                                  |  |   |
|                     | Installation system<br>(top to bottom)                                      | Test specimen<br>Earthed metal plate    |  |   |
|                     | Requirement according EN 14041:2004/AC:2005                                 | Antistatic floor coverings:<br>≤ 2.0 kV |  |   |
|                     | <b>Test result(s)</b>   |   |  |   |
|                     | Measurement 1 (kV)  | 0.6                                     |  | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
|                     | Measurement 2 (kV)  | 0.6                                     |  |   |
|                     | Measurement 3 (kV)  | 0.6                                     |  |   |
| Average result (kV) | <b>0.6</b>  |   |  |   |
| Assessment:         | Antistatic  |   |  |   |

# TFI Report 21-001015-01

## Functional and Quality Tests

### Customer

TRUSA MERMER SAN. TIC LTD. STI  
Turanköy Mah. Turanköy 7. Sok No: 1  
KESTEL/BURSA  
TURKEY

### Product

resilient floor covering  
TRU-STONE SPC-CLICK Vinylflooring 4+1 mm IXPE 0,55mm

This report includes 2 pages and 1 annex.

### Responsible at TFI

Dipl.-Ing. Cornelia Schiffer  
- Senior Engineer -  
Tel: +49 241 9679 150  
[c.schiffer@tfi-aachen.de](mailto:c.schiffer@tfi-aachen.de)

### Aachen, 06.09.2021



Dr. Andreas Zoëga  
- Head of testing laboratory -

The present document is provided with an advanced electronic signature.

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.

## 1 Transaction

|                        |  |
|------------------------|--|
| Test order             | Dimensional stability according to EN ISO 23999:2018 |
| Order date             | 06.08.2021   |
| Your reference         | I. Baysal  |
| Product designation    | TRU-STONE SPC-CLICK Vinylflooring 4+1 mm IXPE 0,55mm |
| TFI sample number      | 2101595  |
| Date of sample receipt | 09.08.2021   |
| Sampling performed by  | Customer   |

## 2 Product Specification

|                           |                              |
|---------------------------|------------------------------|
| Use surface               | not known                    |
| Construction              | heterogeneous                |
| Structure                 | embossed                     |
| Pattern                   | tonal effect without pattern |
| Colour of the use surface | grey, light grey             |
| Type of delivery          | planks                       |

## 3 Results

| Parameter             | Result                          |
|-----------------------|---------------------------------|
| Dimensional stability | individual results cf. annex MW |

The measurement results are evaluated without consideration of the measurement uncertainty with reference to compliance with limit values, unless otherwise specified by the test standard.

## 4 Annexes

Dimensional Stability                      MW 21-001015-01

The annexes marked <sup>a</sup> are based on tests accredited in accordance with EN ISO/IEC 17025.

# Annex MW - Dimensional Stability

## 1 Transaction

|                     |  |
|---------------------|--|
| Product designation | TRU-STONE SPC-CLICK Vinylflooring 4+1 mm IXPE 0,55mm |
| TFI sample number   | 2101595  |
| Testing period      | 11.08.2021 – 01.09.2021                              |

## 2 Test Method / Requirements

|   |   |
|---|---|
| EN ISO 23999:2018   | Determination of dimensional stability and curling after exposure to heat |
| Additional measurement according annex A, dimensional stability due to heat | no  |
| Test temperature  | 80 °C   |
| Deviations  | None  |
| History of the sample   | not known   |

The test was performed by an authorized subcontractor in Arnhem, Netherlands.

## 3 Results

### 3.1 Dimensional stability after conditioning

| Parameter   | Result |
|---|--------|
| Average dimensional change production direction [%]       | -0.05  |
| Average dimensional change cross production direction [%] | 0.00   |
| Maximum dimensional change production direction [%]       | -0.10  |
| Maximum dimensional change cross production direction [%] | 0.03   |
| Average curling [mm]                                      | 0.9    |
| Average initial curling [mm]                              | 0.5    |

Comments: none



5190243IB02

2021160410



Test Result : B<sub>fl</sub>, s1

Report No : 2021160410

Applicant : TRUSA MERMER SAN. TİC. LTD. ŞTİ.

Adress : Turanköy Mah. Turanköy 7. Sokak No:1/4 KESTEL/BURSA

Contact Person : Erol UZUNCA

Telephone : 05414478663

E-Mail : ctstone@trusa.net

Sample Accepted on : 16.03.2021

Report Date : 24.03.2021

Total Number of Pages : 6 (Pg)

Sample ID : TRU-STONE / ROKPLANK SPC Rigid Core Vinyl Flooring  
(0,3mm/0,55mm)

|   | TEST   | METHOD     | RESULT             |
|---|--|------------|--------------------|
| * | Fire classification of construction products and building elements-Part 1: Classification using test data from reaction to fire tests. | EN 13501-1 | PASS               |
|   |  |            | B <sub>fl</sub> s1 |

Results: Flame spread is not highly flammable, no melt droplets, smoke formation has been.



Seal



Customer Representative  
Hasan KUTLU



Laboratory Manager  
Hava Sarıaydın

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**Environment**

The requirements and standards apply to equipment intended for use in:

|   |   |
|---|---|
| X | Residential (domestic) environment          |
| X | Commercial and light-industrial environment |
| X | Industrial environment                      |
| X | Medical environment                         |

## TS EN ISO 13501-1: Building products and structural elements, fire classification. Part 1: Classification by using data obtained from the behavior tests against fire

### Scope

This standard covers the behavior of all building products, including products used in combination with structural elements, against flame.

### Classes of reaction to fire performance for floorings ( $B_{fl}$ )

| Class    | Test method                                      | Classification criteria                                 | Additional classification     |
|----------|--|---|-------------------------------|
| $B_{fl}$ | EN ISO 9239-1 <sup>a</sup><br>and                | Critical flux <sup>b</sup> $\geq 8,0$ kW/m <sup>2</sup> | Smoke production <sup>c</sup> |
|          | EN ISO 11925-2 <sup>d</sup> :<br>Exposure = 15 s | $F_s \leq 150$ mm within 20 s                           |                               |

<sup>a</sup> Test duration = 30 min.

<sup>b</sup> Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).

<sup>c</sup>s1 = Smoke  $\leq 750$  % minutes;

s2 = not s1.

<sup>d</sup> Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack

## EN ISO 9239-1: Reaction to fire tests for floorings—Part 1: Determination of the burning behaviour using a radiant heat source

### Scope

This part of ISO 9239 describes a method for evaluating the reaction to fire versus airflow and the propagation of flame in horizontally arranged floor coverings exposed to a heat flow gradient in a test chamber and ignited by a pilot flame. .

This test method applies to all floor coverings such as: textile floor coverings, cork, wood, rubber and plastic coverings as well as coverings. The results obtained with this test method show the fire behavior of the entire tested floor covering, including any carrier plate.

### Procedure

At intervals of 10 minutes from the start of the test and when the flame is extinguished, the burning distances shall be measured as the distance rounded to the nearest 10 mm between the flame front and the sample zero line. All special observations should be recorded, such as flickering, melting, bubble formation, duration and location of the glow after the flame is extinguished, burning on the carrier plate.

### Test Results

| Sample  | Furthest extent of spread of flame(mm) | Critical Heat Flux (CHF or HF-30) kW/m <sup>2</sup> | Comments and Observation  |
|---|--|---|---|
| # 1   | 155                                    | 10.06   | There were cracks on the surface in the direction of the flame source applied in the sample, but no flame was observed. |
| # 2   | 160                                    | 10.12   |   |
| # 3   | 165                                    | 10.14   |   |
| The mean value for the critical heat flux (CHF and/or HF-30) of the three specimens from the same orientation:<br>10.11 kW/m <sup>2</sup> |  |   |   |

**EN ISO 11925-2: Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test**

**Scope**

This part of ISO 11925 specifies a method of test for determining the ignitability of products by direct small flame impingement under zero impressed irradiance using vertically oriented test specimens.

**Procedure**

There are two flame application times, either 15 seconds or 30 seconds. The starting time of the test depends on the application of the flame.

**Conditioning**

|                       |        |
|-----------------------|--------|
| Temperature (°C)      | 23 ± 2 |
| Relative Humidity (%) | 50 ± 5 |

**Test Results**

|                        |                                 |
|------------------------|---------------------------------|
| Ignition Position      | Face Ignition and Edge ignition |
| Flame Application Time | 15s                             |

| Expression of results   | Results       |    |    |               |     |     |
|---|---------------|----|----|---------------|-----|-----|
|   | Face Ignition |    |    | Edge ignition |     |     |
| # Sample No   | #1            | #2 | #3 | #4            | #5  | #6  |
| Whether ignition occurs (Yes/No)  | No            | No | No | Yes           | Yes | Yes |
| Whether the flame tip reaches 150 mm above the flame application point, and the time at which this occurs (No/Time) | No            | No | No | No            | No  | No  |
| Whether ignition of the filter paper occurs (Yes/No)  | No            | No | No | No            | No  | No  |

Classification of Air Duct based on fire behavior:

**B<sub>fl</sub>**

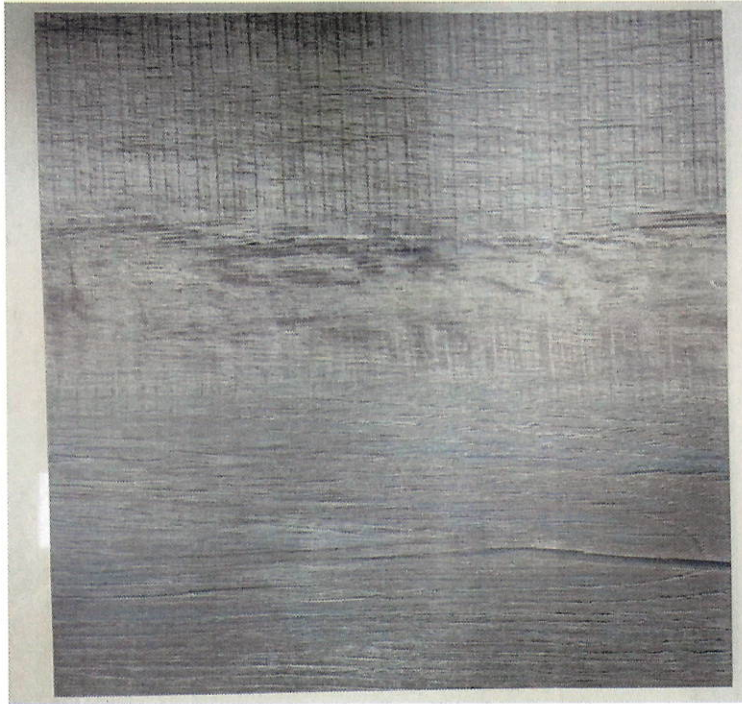
Additional classification for smoke formation:

**s1**

**Reaction to fire for SPC Rigid Core Vinyl Flooring**

| <b>Flammability Behavior</b> | <b>Smoke</b> |   |
|------------------------------|--------------|---|
| B <sub>fl</sub>              | s            | 1 |

**SAMPLE IMAGE**



**\*\*\*\* End Of Report \*\*\*\***



CERTIFIED  
CLEAN AIR GOLD

Intertek does hereby certify that an independent assessment has been conducted on behalf of

# TRU STONE SPC

**Certificate Number: 104517965GRR-001a**

Certification valid until: 29 December 2021

**Applicant Address:** 6251 Hwy 7  
Woodbridge, ON L4H DL1, Canada

**Product Category:** Building Products, Flooring

**Product Details:** See Appendix

**Conformance Criteria:** California Department of Public Health (CDPH) Standard Method v1.2: Private Office and School Classroom.

**Issuing Office Name & Address:** Intertek Testing Services NA, Inc.  
4700 Broadmoor Ave SE, Suite 200  
Kentwood, MI 49512 USA  
Ph: +1-616-656-7401

A handwritten signature in blue ink, reading 'Jesse Ondersma', positioned above a horizontal line.

Jesse Ondersma  
Certification Officer  
30 December 2020

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CERTIFIED  
CLEAN AIR GOLD

Certificate Appendix

# TRU STONE SPC

Certificate Number: 104517965GRR-001a

|                             |                                      |
|-----------------------------|--------------------------------------|
| <b>Product Category</b>     | <b>Flooring</b>                      |
| <b>Model Name(s)</b>        | <b>SPC Rigid Core Vinyl Flooring</b> |
| <b>Product Restrictions</b> | <b>None</b>                          |
| <b>TVOC Range*</b>          | <b>0.5 mg/m<sup>3</sup> or less</b>  |

*\*TVOC range stated is based on the most stringent modeling scenario as listed in the Conformance Criteria on page 1.*

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# **SIMPLY SURFACES** **TEST REPORT**

**SCOPE OF WORK**

Standard Method Version 1.2 for CDPH 01350 on 5mm SPC Rigid Core Flooring

**REPORT NUMBER**

104517965GRR-002

**ISSUE DATE**

22-December-2020

**PAGES**

12

**DOCUMENT CONTROL NUMBER**

Per GFT-OP-10 (6-March-2017)

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## TEST REPORT FOR SIMPLY SURFACES

Report No.: 104517965GRR-002

Date: 22-December-2020

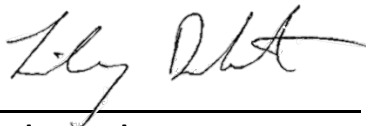
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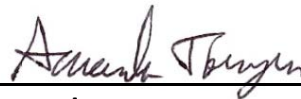
## SECTION 1

### CLIENT INFORMATION

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**SECTION 2**

**SUMMARY AND CONCLUSION**

Test Method: Standard Method Version 1.2 for CDPH 01350  
 Modeling Scenario: Private office (PO), school classroom (SC) and single family residence (R)

**DESCRIPTION OF SAMPLES**

Manufacturer / Location: SIMPLY SURFACES SPC / Bursa, Turkey  
 Product Name: 5mm SPC Rigid Core Flooring  
 Product Number: Not Specified  
 Date of Manufacture: 09-October-2020  
 Date of Collection: 18-November-2020  
 Date of Shipment: 18-November-2020  
 Date Received by Lab: 25-November-2020  
 Date of Test Start: 03-December-2020  
 As Received Sample Condition: Okay Condition – Not wrapped in foil  
 Lab Sample ID: GRR2011250013

**WORK REQUESTED/APPLICABLE DOCUMENTS**

VOC Emissions Analysis: CDPH Standard Method v1.2  
 Intertek Quote: Qu-01127963

**TEST RESULTS**

| MODELING SCENARIO            | RESULT (PASS/FAIL) | TVOC (mg m <sup>-3</sup> ) |
|------------------------------|--------------------|----------------------------|
| Private Office (PO)          | <b>PASS</b>        | < 0.1                      |
| School Classroom (SC)        | <b>PASS</b>        | < 0.1                      |
| Single Family Residence (R)* | <b>PASS</b>        | < 0.1                      |

\*Note: The single family residence scenario is not yet a CDPH requirement. It is provided for informational purposes only.

**SAMPLE DISPOSITION**

At the completion of testing, samples were disposed of in a routine manner.

**SECTION 3****CDPH STANDARD METHOD V1.2**

Date Received: 25-November-2020  
Dates Tested: 03-December-2020 to 18-December-2020

**DESCRIPTION OF SAMPLES:**

Product Description: Stone Polymer Composite 5mm thick with 1mm IXPE Pad  
Material Submitted: Four (4) stacked pieces of flooring

**ACCEPTANCE CRITERIA:**

Referencing: CDPH Standard Method v1.2, Table 4.1  
LEED v4 - Low Emitting Materials  
LEED v4 - TVOC Ranges:  $\leq 0.5 \text{ mg m}^{-3}$   
 $0.5 \text{ to } 5.0 \text{ mg m}^{-3}$   
 $\geq 5.0 \text{ mg m}^{-3}$

**TEST NOTES OR DEVIATIONS:**

The sample was not collected and shipped within 7 days of production. Testing was not performed within 5 weeks of production.

**TEST SUMMARY:**

The emissions testing was performed according to "Standard Method for the Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2". A photograph of the tested sample is included herein. The sample was attached to a stainless-steel plate using strips of aluminized tape and placed into the test chamber with top surface exposed. Air samples were collected prior to the sample being placed in the test chamber (0 hours) and at 264, 288, and 336 hours after being placed in the test chamber. Samples analyzed for individual VOCs and TVOC were collected on multi-sorbent tubes containing glass wool, Tenax TA 35/60 and Carbograph 5 TD 40/60. These VOC samples were analyzed by thermal desorption-gas chromatography/mass-spectrometry, TD-GC/MS. TVOC was calculated through integration of the chromatogram from n-pentane through n-heptadecane using toluene as a surrogate. Individual VOCs were calculated using calibration curves based on pure standards unless otherwise noted. Samples analyzed for low molecular weight aldehydes were collected on cartridges treated with 2,4-di-nitrophenylhydrazine (DNPH). Low molecular weight aldehydes were analyzed using high performance liquid chromatography, HPLC.

**RESULTS:****Table 1: Sample and Chamber Conditions during Test Period**

| PARAMETER                   |           | SYMBOL                 | VALUE            | UNITS                          |
|-----------------------------|-----------|------------------------|------------------|--------------------------------|
| Sample Dimensions           | Length    | -                      | 0.223            | m                              |
|                             | Width     | -                      | 0.245            | m                              |
|                             | Thickness | -                      | N/A              | m                              |
| Exposed Sample Surface Area |           | <i>A</i>               | 0.055            | m <sup>2</sup>                 |
| Chamber Volume              |           | <i>V</i>               | 0.1163           | m <sup>3</sup>                 |
| Chamber Loading Factor      |           | <i>L</i>               | 0.47             | m <sup>2</sup> m <sup>-3</sup> |
| Inlet Air Flow Rate         |           | <i>Q</i>               | 0.1158           | m <sup>3</sup> h <sup>-1</sup> |
| Air Change Rate             |           | <i>N<sub>ACH</sub></i> | 1.00             | h <sup>-1</sup>                |
| Area Specific Flow Rate     |           | <i>q<sub>A</sub></i>   | 2.12             | m h <sup>-1</sup>              |
| Chamber Pressure (Range)    |           | <i>P</i>               | 17.6 (12.0-23.3) | Pa                             |
| Average Temperature (Range) |           | <i>T</i>               | 23.1 (22.8-23.3) | °C                             |
| Average Humidity (Range)    |           | <i>RH</i>              | 50.0 (46.6-52.3) | % RH                           |
| Testing Duration            |           | <i>t</i>               | 336              | h                              |

**Table 2: Test chamber background VOC concentrations in µg m<sup>-3</sup>.**

| COMPOUND     | CAS No. | <i>C<sub>10</sub></i> |
|--------------|---------|-----------------------|
| Formaldehyde | 50-00-0 | < 0.7                 |
| TVOC         | -       | 12.6                  |

**Table 3: Test chamber TVOC and formaldehyde concentrations in µg m<sup>-3</sup>.**

| COMPOUND     | CAS No. | 264 H | 288 H | 336 H |
|--------------|---------|-------|-------|-------|
| Formaldehyde | 50-00-0 | < 2.0 | < 2.0 | < 2.0 |
| TVOC         | -       | 12.6  | 21.9  | 10.6  |

**Table 4: Test chamber TVOC and formaldehyde emission factors in µg m<sup>-2</sup> h<sup>-1</sup>.**

| COMPOUND     | CAS No. | 264 H | 288 H | 336 H |
|--------------|---------|-------|-------|-------|
| Formaldehyde | 50-00-0 | < 3.5 | < 3.5 | < 3.5 |
| TVOC         | -       | BB*   | 19.6  | BB*   |

\*BB = Below Blank

Individual emitted VOCs identified above the lower limits of quantitation are listed in Table 5; VOCs which are listed on chemical of concern lists or have CRELs are indicated.

The measured chamber concentrations and corresponding emission factors of identified individual VOCs and TVOCs are listed in Table 6.

In Tables 4, 6 and 7, emission factors were calculated using equation 3.1 in CDPH Standard Method V1.2:

$$EF_{Ai} = \frac{Q \times (C_{it} - C_{io})}{A_c}$$

The inlet flow rate,  $Q$  ( $m^3 h^{-1}$ ), is the measured flow rate of air into the chamber. The chamber concentration,  $C_{it}$  ( $\mu g m^{-3}$ ), is the concentration of a target VOC<sub>i</sub>, formaldehyde and other carbonyl compounds measured at time  $t$ . The chamber background concentration,  $C_{io}$  ( $\mu g m^{-3}$ ), is the corresponding concentration measured with the chamber operating without a test specimen. The exposed surface area of the test specimen in the chamber,  $A_c$  ( $m^2$ ), is determined from the measurements made at the time of specimen preparation.

**Table 5: VOCs detected above lower limits of quantitation in air samples at 336 hours.**

| VOC | CAS No. | SURROGATE <sup>1</sup> | CREL <sup>2</sup><br>( $\mu g m^{-3}$ ) | CARB TAC <sup>3</sup> | PROP 65 LIST <sup>4</sup> |
|-----|---------|------------------------|---|-----------------------|---------------------------|
| *   |         |                        |   |                       |                           |

\*No individual VOCs were detected.

<sup>1</sup>Indicates which non-listed VOCs were quantified using surrogate compounds, all other compounds were quantified using pure compounds.

<sup>2</sup>Chronic Reference Exposure Level (CREL) as defined by California Office of Environmental Health Hazard Assessment.

<sup>3</sup>Substance is listed on California Air Resource Board’s (CARB) Toxic Air Contaminant (TAC) identification list.

<sup>4</sup>Substance known to the state of California to cause cancer or reproductive toxicity according to California’s Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

**Table 6: Measured chamber concentrations and corresponding emission factors of individual VOCs listed in Table 4-1 of CDPH 01350 V1.2. at 336 hours.**

| VOC                           | CAS No.                           | CHAMBER CONCENTRATION ( $\mu\text{g m}^{-3}$ ) | EMISSION FACTOR ( $\mu\text{g m}^{-2} \text{h}^{-1}$ ) |
|-------------------------------|-----------------------------------|--|--|
| Formaldehyde                  | 50-00-0                           | < 2.0  | < 3.5  |
| Acetaldehyde                  | 75-07-0                           | < 2.0  | < 1.3  |
| Vinyl acetate                 | 108-05-4                          | < 0.5  | < 1.2  |
| Epichlorohydrin               | 106-89-8                          | < 0.3  | < 0.7  |
| Ethanol, 2-methoxy-, acetate  | 110-49-6                          | < 0.9  | < 2.0  |
| Isopropyl Alcohol             | 67-63-0                           | < 0.3  | < 0.5  |
| Ethene, 1,1-dichloro-         | 75-35-4                           | < 0.3  | < 0.5  |
| Methylene chloride            | 75-09-2                           | < 4.2  | < 8.8  |
| Carbon disulfide              | 75-15-0                           | < 0.3  | < 0.5  |
| Methyl tert-butyl ether       | 1634-04-4                         | < 1.8  | < 3.9  |
| n-Hexane                      | 110-54-3                          | < 0.4  | < 0.8  |
| Trichloromethane (Chloroform) | 67-66-3                           | < 0.3  | < 0.5  |
| Ethanol, 2-methoxy-           | 109-86-4                          | < 0.3  | < 0.7  |
| Ethane, 1,1,1-trichloro-      | 71-55-6                           | < 0.3  | < 0.5  |
| Benzene                       | 71-43-2                           | < 0.3  | < 0.5  |
| Carbon Tetrachloride          | 56-23-5                           | < 0.3  | < 0.5  |
| 2-Propanol, 1-methoxy-        | 107-98-2                          | < 0.3  | < 0.5  |
| Ethylene glycol               | 107-21-1                          | < 20.0   | < 42.4   |
| Trichloroethylene             | 79-01-6                           | < 0.3  | < 0.5  |
| 1,4-Dioxane                   | 123-91-1                          | < 0.3  | < 0.5  |
| Ethanol, 2-ethoxy-            | 110-80-5                          | < 0.4  | < 0.7  |
| Toluene                       | 108-88-3                          | < 0.3  | < 0.5  |
| Formamide, N,N-dimethyl-      | 68-12-2                           | < 0.6  | < 1.4  |
| Tetrachloroethylene           | 127-18-4                          | < 0.3  | < 0.5  |
| Benzene, chloro-              | 108-90-7                          | < 0.3  | < 0.5  |
| Ethylbenzene                  | 100-41-4                          | < 0.3  | < 0.5  |
| Xylene (-m, -p, & -o)         | 108-38-3,<br>95-47-6,<br>106-42-3 | < 0.4  | < 0.9  |
| Styrene                       | 100-42-5                          | < 0.3  | < 0.5  |
| 2-Ethoxyethyl acetate         | 111-15-9                          | < 0.3  | < 0.5  |
| Phenol                        | 108-95-2                          | < 0.3  | < 0.6  |
| Benzene, 1,4-dichloro-        | 106-46-7                          | < 0.3  | < 0.5  |
| Isophorone                    | 78-59-1                           | < 0.3  | < 0.5  |
| Naphthalene                   | 91-20-3                           | < 0.3  | < 0.5  |

**Table 7: Measured chamber concentrations and corresponding emission factors of identified non-listed individual VOCs and TVOC at 336 hours.**

| VOC  | CAS No. | CHAMBER CONCENTRATION ( $\mu\text{g m}^{-3}$ ) | EMISSION FACTOR ( $\mu\text{g m}^{-2} \text{h}^{-1}$ ) |
|------|---------|--|--|
| TVOC | -       | 10.6   | < 21.2   |

**Exposure Scenario Modeling and Evaluation:**

Estimated building concentrations for the listed scenarios were calculated using equation 3.2a of CDPH Standard Method V1.2:

$$C_{Bi} = \frac{EF_{Ai} \times A_B}{Q_B}$$

The area specific emission rate  $EF_A$  at 336 hours (14 days) total exposure time is multiplied by the ratio of the exposed surface area of the installed material in the building,  $A_B$  ( $\text{m}^2$ ), to the flow rate of outside ventilation air,  $Q_B$  ( $\text{m}^3 \text{h}^{-1}$ ).

The modeling parameters used for the given scenarios are listed in Table 8. The modeled concentrations of identified individual VOCs are listed in Tables 9 & 10. Whether the modeled concentrations meet the maximum allowable concentration requirements specified in Table 4.1 of CDPH Standard Method V1.2 are also indicated.

**Table 8: Standard modeling parameters for flooring.**

| PARAMETER  | SYMBOL | VALUE | UNITS                      |
|--|--------|-------|----------------------------|
| Exposed Surface Area Installed in <i>Private Office (PO)</i> | $A_B$  | 11.1  | $\text{m}^2$               |
| Air flow rate of <i>Private Office (PO)</i>                  | $Q_B$  | 20.7  | $\text{m}^3 \text{h}^{-1}$ |
| Exposed Surface Area Installed in <i>Classroom (SC)</i>      | $A_B$  | 89.2  | $\text{m}^2$               |
| Air flow rate of <i>Classroom (SC)</i>                       | $Q_B$  | 191   | $\text{m}^3 \text{h}^{-1}$ |
| Exposed Surface Area Installed in <i>Residence (R)</i>       | $A_B$  | 211   | $\text{m}^2$               |
| Air flow rate of <i>Residence (R)</i>                        | $Q_B$  | 127   | $\text{m}^3 \text{h}^{-1}$ |



Table 9: Modeled concentrations of individual VOCs specified in Table 4-1 of CDPH 01350 V1.2.

| VOC                              | CAS NO.                           | MODELED CONCENTRATION<br>( $\mu\text{g m}^{-3}$ ) |        |        | CONC.<br>LIMIT<br>( $\mu\text{g m}^{-3}$ ) | RESULT<br>Pass (P) /Fail (F) |    |   |
|----------------------------------|-----------------------------------|---|--------|--------|--|------------------------------|----|---|
|                                  |                                   | PO  | SC     | R      |  | PO                           | SC | R |
| Formaldehyde                     | 50-00-0                           | < 2.3   | < 2.0  | < 7.0  | 9  | P                            | P  | P |
| Acetaldehyde                     | 75-07-0                           | < 2.3   | < 2.0  | < 7.0  | 70   | P                            | P  | P |
| Vinyl acetate                    | 108-05-4                          | < 0.6   | < 0.5  | < 1.9  | 100  | P                            | P  | P |
| Epichlorohydrin                  | 106-89-8                          | < 0.4   | < 0.3  | < 1.2  | 1.5  | P                            | P  | P |
| Ethanol, 2-methoxy-, acetate     | 110-49-6                          | < 1.1   | < 0.9  | < 3.3  | 45   | P                            | P  | P |
| Isopropyl Alcohol                | 67-63-0                           | < 0.3   | < 0.2  | < 0.9  | 3,500                                      | P                            | P  | P |
| Ethene, 1,1-dichloro-            | 75-35-4                           | < 0.3   | < 0.2  | < 0.9  | 35   | P                            | P  | P |
| Methylene chloride               | 75-09-2                           | < 4.7   | < 4.1  | < 14.7 | 200  | P                            | P  | P |
| Carbon disulfide                 | 75-15-0                           | < 0.3   | < 0.2  | < 0.9  | 400  | P                            | P  | P |
| Methyl tert-butyl ether          | 1634-04-4                         | < 2.1   | < 1.8  | < 6.4  | 4,000                                      | P                            | P  | P |
| n-Hexane                         | 110-54-3                          | < 0.4   | < 0.4  | < 1.3  | 3,500                                      | P                            | P  | P |
| Trichloromethane<br>(Chloroform) | 67-66-3                           | < 0.3   | < 0.2  | < 0.9  | 150  | P                            | P  | P |
| Ethanol, 2-methoxy-              | 109-86-4                          | < 0.4   | < 0.3  | < 1.2  | 30   | P                            | P  | P |
| Ethane, 1,1,1-trichloro-         | 71-55-6                           | < 0.3   | < 0.2  | < 0.9  | 500  | P                            | P  | P |
| Benzene                          | 71-43-2                           | < 0.3   | < 0.2  | < 0.9  | 1.5  | P                            | P  | P |
| Carbon Tetrachloride             | 56-23-5                           | < 0.3   | < 0.2  | < 0.9  | 20   | P                            | P  | P |
| 2-Propanol, 1-methoxy-           | 107-98-2                          | < 0.3   | < 0.2  | < 0.9  | 3,500                                      | P                            | P  | P |
| Ethylene glycol                  | 107-21-1                          | < 22.7  | < 19.8 | < 70.4 | 200  | P                            | P  | P |
| Trichloroethylene                | 79-01-6                           | < 0.3   | < 0.2  | < 0.9  | 300  | P                            | P  | P |
| 1,4-Dioxane                      | 123-91-1                          | < 0.3   | < 0.2  | < 0.9  | 1,500                                      | P                            | P  | P |
| Ethanol, 2-ethoxy-               | 110-80-5                          | < 0.4   | < 0.3  | < 1.2  | 35   | P                            | P  | P |
| Toluene                          | 108-88-3                          | < 0.3   | < 0.2  | < 0.9  | 150  | P                            | P  | P |
| Formamide, N,N-dimethyl-         | 68-12-2                           | < 0.7   | < 0.6  | < 2.3  | 40   | P                            | P  | P |
| Tetrachloroethylene              | 127-18-4                          | < 0.3   | < 0.2  | < 0.9  | 17.5                                       | P                            | P  | P |
| Benzene, chloro-                 | 108-90-7                          | < 0.3   | < 0.2  | < 0.9  | 500  | P                            | P  | P |
| Ethylbenzene                     | 100-41-4                          | < 0.3   | < 0.2  | < 0.9  | 1,000                                      | P                            | P  | P |
| Xylene (-m, -p, & -o)            | 108-38-3,<br>95-47-6,<br>106-42-3 | < 0.5   | < 0.4  | < 1.4  | 350  | P                            | P  | P |
| Styrene                          | 100-42-5                          | < 0.3   | < 0.2  | < 0.9  | 450  | P                            | P  | P |
| 2-Ethoxyethyl acetate            | 111-15-9                          | < 0.3   | < 0.2  | < 0.9  | 150  | P                            | P  | P |
| Phenol                           | 108-95-2                          | < 0.3   | < 0.3  | < 1.0  | 100  | P                            | P  | P |
| Benzene, 1,4-dichloro-           | 106-46-7                          | < 0.3   | < 0.2  | < 0.9  | 400  | P                            | P  | P |
| Isophorone                       | 78-59-1                           | < 0.3   | < 0.2  | < 0.9  | 1,000                                      | P                            | P  | P |
| Naphthalene                      | 91-20-3                           | < 0.3   | < 0.2  | < 0.9  | 4.5  | P                            | P  | P |

Table 10: Modeled concentrations of identified non-listed individual VOCs.

| VOC                     | CAS NO. | MODELED CONCENTRATION<br>( $\mu\text{g m}^{-3}$ ) |       |        | CONC.<br>LIMIT<br>( $\mu\text{g m}^{-3}$ ) | Result<br>Pass (P) /Fail (F) |    |   |
|-------------------------|---------|---|-------|--------|--|------------------------------|----|---|
|                         |         | PO  | SC    | R      |  | PO                           | SC | R |
| TVOC <sub>Toluene</sub> | -       | < 11.4  | < 9.9 | < 35.2 | -  | -                            | -  | - |

PHOTOGRAPHS:

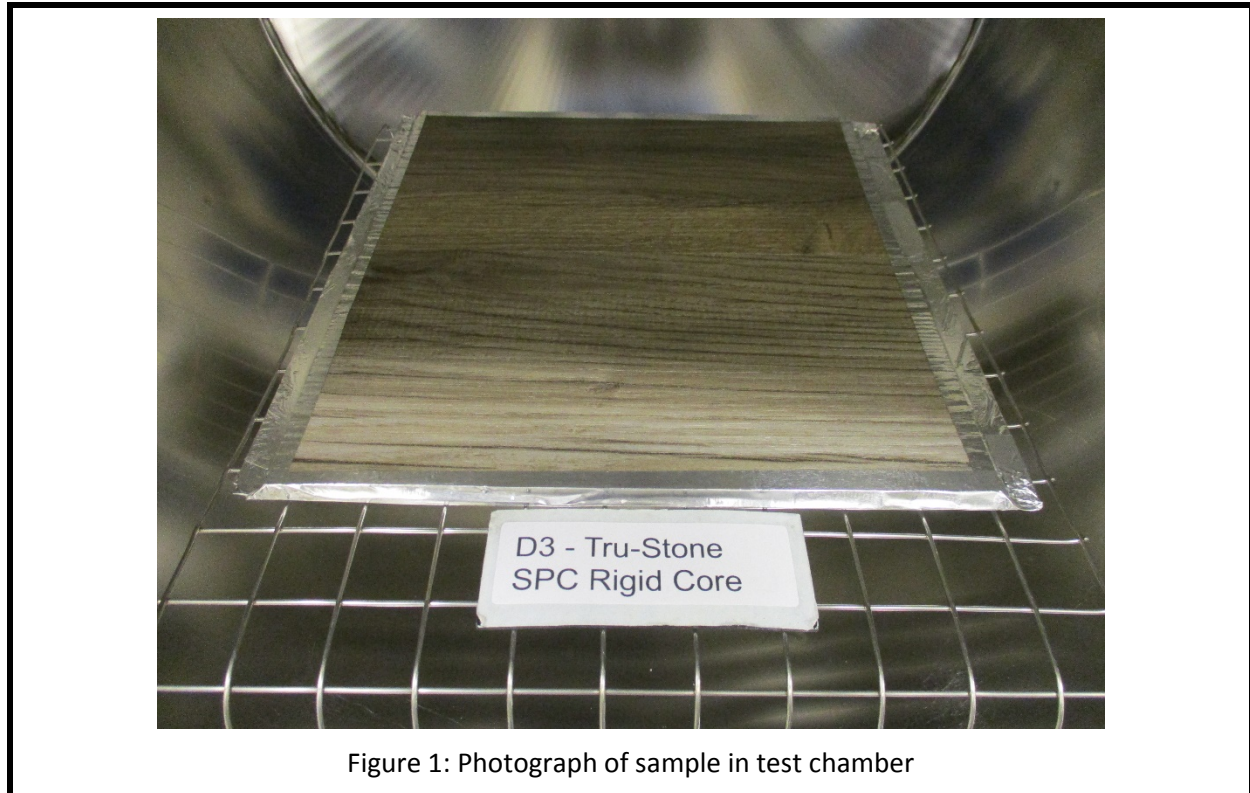


Figure 1: Photograph of sample in test chamber



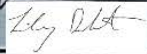
**SECTION 4**

**FACILITIES AND EQUIPMENT:**

| <b>GCMS</b>           |  |
|-----------------------|--|
| INSTRUMENTATION USED: | Markes TD-100 Thermal Desorption<br>Agilent 7890A GC<br>Agilent 5975C MS |
| COLUMN USED:          | AGILENT HP-5MS (GC)  |
| <b>HPLC</b>           |  |
| INSTRUMENTATION USED: | Agilent 1260 Infinity Series   |
| COLUMN USED:          | Poroshell 120 EC-C18   |

**SECTION 5**

**CHAIN OF CUSTODY**

|  |   |   |  |                 |
|--|---|---|--|-----------------|
|   | <b>Ship To:</b>   |   | <b>Chain of Custody for Chemical Testing</b>   |                 |
|  | Attn: VOC Laboratory<br>4700 Broadmoor Ave SE<br>Suite 200<br>Kentwood, MI 49512<br>Phone: 616-656-7401 |   | Intertek Quotation Number: 01127963-0<br>Purchase Order (enter Company and Number):<br>TRU-STONE - 18.11.20  |                 |
| <b>Customer Information</b>  |   |   | <b>Shipping Details</b>  |                 |
| Company: TRU-STONE<br>Street Address: 6251 Hwy 7<br>City/State/Postal code: Woodbridge Ontario L4H 0L1<br>Country: Canada<br>Contact Name & Title (for reporting):<br>Sedat Bayramoglu - Management<br>Contact Phone/Fax Numbers: 416 836 2274 / 647 724 1615<br>Contact E-mail Address: <a href="mailto:sedat@tru-stone.net">sedat@tru-stone.net</a><br>Financially Responsible Co. :   |   |   | Packed & Shipped By: Sedat Bayramoglu<br>Shipping Date: November 18 2020<br>Carrier/Airbill Number:  |                 |
| <b>Manufacturer Information (If Different)</b>   |   |   | <b>Requested Testing</b>   |                 |
| Company: TRU-STONE SPC<br>City/State/Country: Bursa / Turkey<br>Contact Name/Title: Erol Yuce / Production Manager<br>Phone Number/E-mail Address: <a href="mailto:erol.trustone@gmail.com">erol.trustone@gmail.com</a> +90 0  |   |   | Test to be performed: Clean Air Certification  |                 |
| <b>Sample Details</b>  |   |   | <b>Customer Request for Certification</b>  |                 |
| Product Commercial Name*: 5mm SPC Rigid Core Flooring<br>Product Commercial Part No.(if not part of the name)*:<br>Manufacturer Sample Tracking ID: 5mm SPC Rigid Core Flooring<br>Date Manufactured*: October 9 2020<br>Product Category & Use*: 5mm SPC Rigid Core Flooring<br>Sample Construction Materials*: Rigid Core Flooring<br>Stone Polymer Composite / 5mm Thick / Includes 1mm IXPE Pad<br>Plant Name & Location*: TRU-STONE SPC<br>Collection Location within Plant: Packaging Area<br>Date & Time Collected* : November 18 2020<br>Number of Sample Pieces*: 2 planks of 7x48 inch size<br>Sample Collected by*: Sedat Bayramoglu<br>Phone/Fax Numbers*: 416 836 2274<br>E-mail Address*: <a href="mailto:sedat@tru-stone.net">sedat@tru-stone.net</a> |   |   | Clean Air Silver™ Certification: <input type="checkbox"/> YES<br>Clean Air Gold™ Certification: <input checked="" type="checkbox"/> YES  |                 |
| <b>Special Customer Instructions</b>   |   |   | <b>Customer Authorizes Laboratory to Submit Copies of Test Reports To:</b>   |                 |
| Please kindly complet at your earliest convenience   |   |   | Contact: Sedat Bayramoglu<br>Email Address: <a href="mailto:sedat@tru-stone.net">sedat@tru-stone.net</a><br>Organization: TRU-STONE<br>Contact:<br>Email Address:<br>Organization: |                 |
| <b>Intertek Use Only</b>   |   |   |  |                 |
| Condition of Shipping Package: Good Condition<br>Condition of Sample: Okay Condition - not wrapped in foil<br>Sample ID: GRR2011250013<br>GIN: G104517965<br>*Indicates required field   |   |   |  |                 |
| <b>Sample Handling*</b>  |   |   |  |                 |
|  | <b>Printed Name*</b>  | <b>Signature*</b>   | <b>Date*</b>   | <b>Company*</b> |
| Relinquished By:   | Sedat Bayramoglu  |  | November 18 2020   | TRU-STONE       |
| Received by:   | Lindsay Delamarter  |  | November-27-2020   | Intertek        |



# SIMPLY SURFACES

# CLEAN AIR

# CERTIFICATION REPORT

## SCOPE OF WORK

Clean Air Certification of Building Products

## REPORT NUMBER

104517965GRR-001

## ISSUE DATE

30 December 2020

## PAGES

7

## DOCUMENT CONTROL NUMBER

SFT-CLEAN AIR-OP-19c (29-April-2019)

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**CLEAN AIR CERTIFICATION REPORT**

**SECTION 1 Applicant Information**

|                      |  |                     |  |                |     |
|----------------------|--|---------------------|--|----------------|-----|
| <b>Report Number</b> | 104517965GRR-001                               | <b>Issue Date</b>   | 30 December 2020   | <b>Revised</b> | N/A |
| <b>Applicant</b>     | SIMPLY SURFACES                                | <b>Manufacturer</b> | TRU-STONE SPC  |                |     |
| <b>Address</b>       | 2418 West Battlefield<br>Springfield, MO 65807 | <b>Address</b>      | Turankoy Sanayi Bolgesi, 16000, 7.<br>Sokak #1 Kestel, Bursa, Turkey |                |     |
| <b>Country</b>       | United States                                  | <b>Country</b>      | Turkey   |                |     |
| <b>Contact</b>       | Craig Johnson                                  | <b>Contact</b>      | Erol Yuce, Production Manager  |                |     |
| <b>Phone</b>         | +1 417-889-8453                                | <b>Phone</b>        | +90 (541) 447-8663   |                |     |
| <b>FAX</b>           | Not Specified                                  | <b>FAX</b>          | Not Specified  |                |     |
| <b>Email</b>         | info@simplysurfaces.com                        | <b>Email</b>        | info@tru-stone.net   |                |     |

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## CLEAN AIR CERTIFICATION REPORT

### SECTION 2 Product Grouping

**Clean Air GOLD:** Conforms to California Department of Public Health (CDPH) Standard Method v1.2:  
Private Office and School Classroom

|                      |                               |
|----------------------|-------------------------------|
| Certificate          | 104517965GRR-001a             |
| Product Category     | Building Products             |
| Product Type         | Flooring                      |
| Brand name           | TRU STONE SPC                 |
| Models               | SPC Rigid Core Vinyl Flooring |
| Product Restrictions | None                          |
| TVOC Range*          | 0.5 mg/m <sup>3</sup> or less |







**CLEAN AIR CERTIFICATION REPORT**

**SECTION 4 Private Label**

| <b>MULTIPLE LISTEE 1</b>     |                                      |
|------------------------------|--------------------------------------|
| Company Name:                | Brand Name:                          |
| Address:                     |                                      |
| Contact:                     | Email:                               |
| Phone Number:                | Note:                                |
| <b>Multiple Listee Model</b> | <b>Basic Listee Correlated Model</b> |
|                              |                                      |
|                              |                                      |
|                              |                                      |
|                              |                                      |
|                              |                                      |
| <b>MULTIPLE LISTEE 2</b>     |                                      |
| Company Name:                | Brand Name:                          |
| Address:                     |                                      |
| Contact:                     | Email:                               |
| Phone Number:                | Note:                                |
| <b>Multiple Listee Model</b> | <b>Basic Listee Correlated Model</b> |
|                              |                                      |
|                              |                                      |
|                              |                                      |
|                              |                                      |
|                              |                                      |



**CLEAN AIR CERTIFICATION REPORT**

**SECTION 5 Revision History**

| Date | Project Number | Revision Description | Revised By | Signature |
|------|----------------|----------------------|------------|-----------|
|      |                |                      |            |           |
|      |                |                      |            |           |
|      |                |                      |            |           |
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|      |                |                      |            |           |
|      |                |                      |            |           |

## CLEAN AIR CERTIFICATION REPORT

### SECTION 6 Conclusion

|   |                                      |                     |                       |
|---|--------------------------------------|---------------------|-----------------------|
| <p>Representative samples of the products covered by this report have been evaluated and found to comply with the applicable requirements of the standards indicated above.</p> <p>Please note, this Report does not represent authorization for the applicant or manufacturer to apply Intertek Certification Marks.</p> |                                      |                     |                       |
| <b>Completed by:</b>  | Lisa Henderson                       | <b>Reviewed by:</b> | Jesse Ondersma        |
| <b>Title:</b>   | Sustainability Program Administrator | <b>Title:</b>       | Certification Officer |
| <b>Signature:</b>   | <i>Lisa Henderson</i>                | <b>Signature:</b>   | <i>Jesse Ondersma</i> |

**TECHNICAL PRODUCT SPECIFICATIONS SUMMARY**

| CHARACTERISTIC   |   | TECHNOLOGY TARGET                                  |                              |                         | REMARKS   |
|--|---|--|------------------------------|-------------------------|-----------|
| Determination of Geometrical Characteristics                             | Thickness   | 5.146  |                              |                         | ISO 24337 |
|  | Length  | 1219.291   |                              |                         |           |
|  | Width   | 177.915  |                              |                         |           |
|  | Squareness (out of square)                                      | Max: 0.160 / Avg: 0.073                            |                              |                         |           |
|  | Straightness  | 0.058  |                              |                         |           |
|  | Width Flatness  | Max: 0.132 (0.074%) / Avg: 0.097 (0.055%) - Convex |                              |                         |           |
|  | Length Flatness   | Max: 0.172 (0.014%) / Avg: 0.131 (0.011%) - Convex |                              |                         |           |
|  | Openings Between Elements                                       | Max: 0.183 / Avg: 0.091                            |                              |                         |           |
|  | Height Difference Between Elements                              | Max: 0.114 / Avg: 0.075                            |                              |                         |           |
| Curling after exposure to heat (%)                                       | SPC Length: ≤0.01 (70°C/ 6Hr)      SPC Width: ≤0.01 (70°C/ 6Hr) |  |                              | ISO 23999<br>ASTM F3261 |           |
| Wear Layer Thickness of Resilient Floor Coverings by Optical Measurement | Average Total Thickness: 0.011 Inch/ 0.28mm                     |  |                              | ASTM F410               |           |
| Resistance to Chemicals  | <b>Chemicals</b>  | <b>Surface Dulling</b>                             | <b>Surface Attack</b>        | <b>Color Change</b>     | ASTM F925 |
|  | 5% Acetic Acid  | 0  | 0                            | 0                       |           |
|  | 70% Isopropyl Alcohol   | 0  | 0                            | 0                       |           |
|  | Mineral Oil   | 0  | 0                            | 0                       |           |
|  | 5% Sodium Hydroxide   | 0  | 0                            | 1                       |           |
|  | 5% Hydrochloric Acid  | 0  | 0                            | 0                       |           |
|  | 5% Ammonia  | 0  | 0                            | 0                       |           |
|  | Bleach  | 0  | 0                            | 0                       |           |
|  | 5% Phenol   | 0  | 0                            | 0                       |           |
|  | Gasoline  | 0  | 0                            | 0                       |           |
|  | Sulfuric Acid   | 0  | 0                            | 0                       |           |
| Kerosene   | 0   | 0  | 0                            |                         |           |
| Olive Oil  | 0   | 0  | 0                            |                         |           |
| Static Load Limit  | Specified Load: 250psi  |  | Residual Compression:0.003mm | ASTM F970               |           |
| Measuring Thickness of Resilient Floor Covering with Foam Layer          | Average Total Thickness: 0.202 inch                             |  |                              | ASTM F387               |           |
| Determination of Flexibility   | PASSES 115 mm Mandrel   |  |                              | ASTM F137               |           |
| RESIDUAL INDENTATION AT 75 Lbs   | 0.000 Inch  |  |                              | ASTM F1914              |           |
| Squareness Gage  | ≤0.25mm   |  |                              | ASTM F2421              |           |
| Length Deviation   | ≤0.15mm   |  |                              |                         |           |
| Width Deviation  | ≤0.15mm   |  |                              |                         |           |
| Squareness Deviation   | ≤0.15mm   |  |                              |                         |           |



### TEST REPORT

DATE: 10-02-2019

Page 1 of 1

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|


|                              |              |
|------------------------------|--------------|
| <b>TEST METHOD CONDUCTED</b> | Test Summary |
|------------------------------|--------------|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

#### TEST RESULTS

| TEST METHOD | PASS/FAIL   |
|-------------|---|
| ASTM F137   |   |
| ASTM F970   | Meets the requirements of ASTM F3261  |
| ASTM F925   | Meets the requirements of ASTM F925   |
| ASTM F387   | Meets the requirements of ASTM F387   |
| ASTM F1914  | Meets the requirements of ASTM F1914  |
| ISO 24337   | Meets the requirements of ISO 24337   |
| ISO 23999   | Meets the requirements of ISO 23999   |
| ASTM F410   | Meets the residential requirement for wear layer via ASTM F3261.<br>Does not meet commercial requirement. |

APPROVED BY: 

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# TEST REPORT

DATE: 10-01-2019

Page 1 of 1

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |   |
|------------------------------|---|
| <b>TEST METHOD CONDUCTED</b> | ISO 24337 Laminate Floor Coverings - Determination of Geometrical Characteristics |
|------------------------------|---|



| <b>DESCRIPTION OF TEST SAMPLE</b> |           |
|-----------------------------------|-----------|
| <b>IDENTIFICATION</b>             | Rok Plank |

## GENERAL PRINCIPLE

The submitted goods were measured to determine geometrical values for size, squareness, straightness, height deviations, and gapping when applied together. All values listed are in mm.

## TEST RESULTS

| <b>CHARACTERISTIC</b>              | <b>VALUE (mm)</b>                                  |
|------------------------------------|--|
| Thickness                          | 5.146  |
| Length                             | 1219.291   |
| Width                              | 177.915  |
| Squareness (out of square)         | Max: 0.160 / Avg: 0.073                            |
| Straightness                       | 0.058  |
| Width Flatness                     | Max: 0.132 (0.074%) / Avg: 0.097 (0.055%) - Convex |
| Length Flatness                    | Max: 0.172 (0.014%) / Avg: 0.131 (0.011%) - Convex |
| Openings Between Elements          | Max: 0.183 / Avg: 0.091                            |
| Height Difference Between Elements | Max: 0.114 / Avg: 0.075                            |

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### TEST REPORT

DATE: 10-01-2019

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TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F137 Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus |
|------------------------------|--|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

#### GENERAL PRINCIPLE

The flexibility of a specimen is determined by flexing the material around mandrels of varying sizes. The mandrel sizes range from 6 mm to 120 mm in diameter. The specimen is flexed 180° around the mandrel and then examined for cracking or breaking. If none exists, the procedure is repeated on the next smaller mandrel. The procedure is continued until the material breaks or cracks or until the smallest mandrel is passed.

#### TEST RESULTS

|               |        |                |
|---------------|--------|----------------|
| <b>RESULT</b> | PASSES | 115 mm Mandrel |
|---------------|--------|----------------|

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### TEST REPORT

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TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F387 Standard Test Method for Measuring Thickness of Resilient Floor Covering with Foam Layer |
|------------------------------|--|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

#### GENERAL PRINCIPLE

The total thickness of a resilient flooring material is determined through measurements made using a .250 inch presser foot and a dial micrometer. The average of 5 total measurements is reported as the average total thickness.

#### TEST RESULTS

|                                |            | THICKNESS  |
|--------------------------------|------------|------------|
|                                | SPECIMEN 1 | 0.202 Inch |
|                                | SPECIMEN 2 | 0.204 Inch |
|                                | SPECIMEN 3 | 0.201 Inch |
|                                | SPECIMEN 4 | 0.202 Inch |
|                                | SPECIMEN 5 | 0.203 Inch |
| <b>AVERAGE TOTAL THICKNESS</b> |            | 0.202 Inch |

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### TEST REPORT

DATE: 10-01-2019

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TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |   |
|------------------------------|---|
| <b>TEST METHOD CONDUCTED</b> | ASTM F410 Standard Test Method for Wear Layer Thickness of Resilient Floor Coverings by Optical Measurement |
|------------------------------|---|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

#### GENERAL PRINCIPLE

The thickness of the wear layer of resilient non-textile floor coverings is determined by microscopic optical measurement. The specimen is examined in five areas and measurements are made on the outer most layer of the composite material. The measurements are recorded to the .001 inch and averaged.

#### TEST RESULTS

|                                |            | THICKNESS  |         |
|--------------------------------|------------|------------|---------|
|                                | SPECIMEN 1 | 0.012 inch | 0.30 mm |
|                                | SPECIMEN 2 | 0.009 inch | 0.24 mm |
|                                | SPECIMEN 3 | 0.011 inch | 0.29 mm |
|                                | SPECIMEN 4 | 0.010 inch | 0.25 mm |
|                                | SPECIMEN 5 | 0.011 inch | 0.28 mm |
| <b>AVERAGE TOTAL THICKNESS</b> |            | 0.011 Inch | 0.27 mm |

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### TEST REPORT

DATE: 10-01-2019

Page 1 of 1

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F925 (Regular) Standard Test Method for Resistance to Chemicals of Resilient Flooring |
|------------------------------|--|



#### DESCRIPTION OF TEST SAMPLE

|                       |           |
|-----------------------|-----------|
| <b>IDENTIFICATION</b> | Rok Plank |
|-----------------------|-----------|

#### TEST RESULTS

| 5 MINUTE RATINGS | 24 HOUR RATINGS |
|------------------|-----------------|
|------------------|-----------------|

| STAINING AGENT        | SURFACE DULLING | SURFACE ATTACK | COLOR CHANGE | SURFACE DULLING | SURFACE ATTACK | COLOR CHANGE |
|-----------------------|-----------------|----------------|--------------|-----------------|----------------|--------------|
| 5% Acetic Acid        | 0               | 0              | 0            | 0               | 0              | 0            |
| 70% Isopropyl Alcohol | 0               | 0              | 0            | 0               | 0              | 0            |
| Mineral Oil           | 0               | 0              | 0            | 0               | 0              | 0            |
| 5% Sodium Hydroxide   | 0               | 0              | 0            | 0               | 0              | 1            |
| 5% Hydrochloric Acid  | 0               | 0              | 0            | 0               | 0              | 0            |
| 5% Ammonia            | 0               | 0              | 0            | 0               | 0              | 0            |
| Bleach                | 0               | 0              | 0            | 0               | 0              | 0            |
| 5% Phenol             | 0               | 0              | 0            | 0               | 0              | 0            |
| Gasoline              | 0               | 0              | 0            | 0               | 0              | 0            |
| Sulfuric Acid         | 0               | 0              | 0            | 0               | 0              | 0            |
| Kerosene              | 0               | 0              | 0            | 0               | 0              | 0            |
| Olive Oil             | 0               | 0              | 0            | 0               | 0              | 0            |

| RATING KEY           |
|----------------------|
| 0 - No change (----) |
| 1 - Slight change    |
| 2 - Moderate change  |
| 3 - Severe change    |

APPROVED BY: *Larry Colburn*

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# TEST REPORT

DATE: 10-01-2019

Page 1 of 1

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F970 Standard Test Method for Static Load Limit |
|------------------------------|--|



| <b>DESCRIPTION OF TEST SAMPLE</b> |           |
|-----------------------------------|-----------|
| <b>IDENTIFICATION</b>             | Rok Plank |

### GENERAL PRINCIPLE

This test determines the recovery properties of resilient floor covering after long term indentation test (24 hours) under a specified load.

### PROCEDURE

The test sample is conditioned to equilibrium at 73° F and 50% relative humidity. The initial thickness of the sample is determined using a dial micrometer with a flat presser foot .250 inches in diameter. A specified load is applied to the sample over a 1.125 inch diameter indenter foot for 24 hours. After removal of the load, the sample is allowed to recover for 24 hours. The sample is regauged using the .250 inch diameter presser foot. The difference between the two measurements is reported as the residual compression.

### TEST RESULTS

| <b>SPECIFIED LOAD</b> | <b>RESIDUAL COMPRESSION</b> |
|-----------------------|-----------------------------|
| 250 psi               | 0.003 Inch                  |

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### TEST REPORT

DATE: 10-01-2019

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TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F1914 Test Method for Short-Term Indentation and Residual Indentation of Resilient Floor Covering |
|------------------------------|--|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

#### PROCEDURE

A test sample is loaded with 75 lbs. on a presser foot .250 inches in diameter for 15 minutes. After 60 minutes of recovery time the indentation is measured again and compared to the original thickness of the sample.

#### TEST RESULTS

|  |            |
|--|------------|
| <b>RESIDUAL INDENTATION AT 75 Lbs.</b> | 0.000 Inch |
|--|------------|

*\*Surface Integrity – No puncture through wear layer/décor into rigid core.*

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# TEST REPORT

DATE: 10-01-2019

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TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F2421 Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method |
|------------------------------|--|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

### GENERAL PRINCIPLE

This test method covers the determination of both dimensions (length and width) and squareness of resilient floor tile. The gage dials were set and reported as deviation from the zero point of the specified size. Results are listed in inches.

### TEST RESULTS

| Specified Size in Inches |       |
|--------------------------|-------|
| Length                   | Width |
| 48.000                   | 7.000 |

| #1         |   | Squareness Gage | Gage B | Gage C | Gage D | Gauge E |
|------------|---|-----------------|--------|--------|--------|---------|
| First Set  | 1 | 0.000           | 7.006  | 7.008  | 7.008  | 48.010  |
| Rotation 1 | 2 | 0.001           | 7.008  | 7.008  | 7.006  | 48.010  |
| Flip 1     | 3 | 0.002           |        |        |        |         |
| Rotation 2 | 4 | 0.006           |        |        |        |         |

|                        |       | Per Linear Ft |
|------------------------|-------|---------------|
| Length Deviation       | 0.010 | 0.002         |
| Width Deviation Left   | 0.006 | 0.010         |
| Width Deviation Center | 0.008 | 0.014         |
| Width Deviation Right  | 0.008 | 0.014         |

| Squareness Deviation |       |
|----------------------|-------|
| Corner 1             | 0.000 |
| Corner 2             | 0.001 |
| Corner 3             | 0.002 |
| Corner 4             | 0.006 |

APPROVED BY:

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### TEST REPORT

DATE: 10-01-2019

Page 2 of 3

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F2421 Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method |
|------------------------------|--|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

| #2         |   | Squareness Gage | Gage B | Gage C | Gage D | Gauge E |
|------------|---|-----------------|--------|--------|--------|---------|
| First Set  | 1 | 0.002           | 7.006  | 7.001  | 7.002  | 47.996  |
| Rotation 1 | 2 | 0.005           | 7.002  | 7.001  | 7.006  | 47.996  |
| Flip 1     | 3 | 0.006           |        |        |        |         |
| Rotation 2 | 4 | 0.002           |        |        |        |         |

|                        |        | Per Linear Ft |
|------------------------|--------|---------------|
| Length Deviation       | -0.004 | -0.001        |
| Width Deviation Left   | 0.006  | 0.010         |
| Width Deviation Center | 0.001  | 0.002         |
| Width Deviation Right  | 0.002  | 0.003         |

| Squareness Deviation |       |
|----------------------|-------|
| Corner 1             | 0.002 |
| Corner 2             | 0.005 |
| Corner 3             | 0.006 |
| Corner 4             | 0.002 |

| #3         |   | Squareness Gage | Gage B | Gage C | Gage D | Gauge E |
|------------|---|-----------------|--------|--------|--------|---------|
| First Set  | 1 | 0.002           | 7.006  | 7.005  | 7.004  | 47.992  |
| Rotation 1 | 2 | 0.003           | 7.004  | 7.005  | 7.006  | 47.992  |
| Flip 1     | 3 | 0.006           |        |        |        |         |
| Rotation 2 | 4 | 0.005           |        |        |        |         |

|                        |        | Per Linear Ft |
|------------------------|--------|---------------|
| Length Deviation       | -0.008 | -0.002        |
| Width Deviation Left   | 0.006  | 0.010         |
| Width Deviation Center | 0.005  | 0.009         |
| Width Deviation Right  | 0.004  | 0.007         |

| Squareness Deviation |       |
|----------------------|-------|
| Corner 1             | 0.002 |
| Corner 2             | 0.003 |
| Corner 3             | 0.006 |
| Corner 4             | 0.005 |

APPROVED BY: *Gary Anthony*

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# TEST REPORT

DATE: 10-01-2019

Page 3 of 3

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F2421 Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method |
|------------------------------|--|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

| #4         |   | Squareness Gage | Gage B | Gage C | Gage D | Gauge E |
|------------|---|-----------------|--------|--------|--------|---------|
| First Set  | 1 | 0.001           | 7.003  | 7.005  | 7.004  | 48.006  |
| Rotation 1 | 2 | 0.000           | 7.004  | 7.005  | 7.003  | 48.006  |
| Flip 1     | 3 | 0.000           |        |        |        |         |
| Rotation 2 | 4 | 0.005           |        |        |        |         |

|                        |       | Per Linear Ft |
|------------------------|-------|---------------|
| Length Deviation       | 0.006 | 0.002         |
| Width Deviation Left   | 0.003 | 0.005         |
| Width Deviation Center | 0.005 | 0.009         |
| Width Deviation Right  | 0.004 | 0.007         |

| Squareness Deviation |       |
|----------------------|-------|
| Corner 1             | 0.001 |
| Corner 2             | 0.000 |
| Corner 3             | 0.000 |
| Corner 4             | 0.005 |

| #5         |   | Squareness Gage | Gage B | Gage C | Gage D | Gauge E |
|------------|---|-----------------|--------|--------|--------|---------|
| First Set  | 1 | 0.004           | 7.001  | 7.004  | 7.003  | 48.014  |
| Rotation 1 | 2 | 0.001           | 7.003  | 7.004  | 7.001  | 48.014  |
| Flip 1     | 3 | 0.005           |        |        |        |         |
| Rotation 2 | 4 | 0.002           |        |        |        |         |

|                        |       | Per Linear Ft |
|------------------------|-------|---------------|
| Length Deviation       | 0.014 | 0.004         |
| Width Deviation Left   | 0.001 | 0.002         |
| Width Deviation Center | 0.004 | 0.007         |
| Width Deviation Right  | 0.003 | 0.005         |

| Squareness Deviation |       |
|----------------------|-------|
| Corner 1             | 0.004 |
| Corner 2             | 0.001 |
| Corner 3             | 0.005 |
| Corner 4             | 0.002 |

APPROVED BY: *Larry Colburn*

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### TEST REPORT

DATE: 10-01-2019

Page 1 of 1

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ISO 23999 ASTM F3261 Standard Specification for Resilient Flooring in Modular Format with Rigid Polymeric Core |
|------------------------------|--|



| DESCRIPTION OF TEST SAMPLE |           |
|----------------------------|-----------|
| <b>IDENTIFICATION</b>      | Rok Plank |

#### GENERAL PRINCIPLE

This International Standard specifies a method for determining dimensional stability and curling of resilient floor coverings, in the form of sheets and tiles, in linear dimensions after exposure to heat. The vertical deformations are measured in the test specimen after the specified heat treatment. Test specimens are placed in an oven at an elevated temperature, after which curl and dimensional stability are determined. In the case of domed material, turn the test specimen over to measure inverted or with the back of the sample facing up.

#### TEST RESULTS

| IDENTIFICATION | TEMPERATURE | RESULT            | INITIAL CURL | FINAL CURL |
|----------------|-------------|-------------------|--------------|------------|
| Length mean    | 70° C       | -0.025 mm (0.01%) | 0 mm         | 0 mm       |
| Width mean     | 70° C       | -0.380 mm (0.12%) |              |            |

| IDENTIFICATION | TEMPERATURE | RESULT            | INITIAL CURL | FINAL CURL |
|----------------|-------------|-------------------|--------------|------------|
| Length mean    | 70° C       | -0.127 mm (0.04%) | 0 mm         | 0 mm       |
| Width mean     | 70° C       | -0.169 mm (0.06%) |              |            |

| IDENTIFICATION | TEMPERATURE | RESULT            | INITIAL CURL | FINAL CURL |
|----------------|-------------|-------------------|--------------|------------|
| Length mean    | 70° C       | +0.025 mm (0.01%) | 0 mm         | 0 mm       |
| Width mean     | 70° C       | +0.042 mm (0.01%) |              |            |

NOTE: LVT/LVP-ISO 23999 Resilient Floor Covering – Determination of Dimensional Stability and Curling after Exposure to Heat

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# TEST REPORT

DATE: 10-18-2019

Page 1 of 1

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |   |
|------------------------------|---|
| <b>TEST METHOD CONDUCTED</b> | ASTM F1514 Measuring Heat Stability of Resilient Flooring by Color Change |
|------------------------------|---|



| <b>DESCRIPTION OF TEST SAMPLE</b> |           |
|-----------------------------------|-----------|
| <b>IDENTIFICATION</b>             | Rok Plank |

## GENERAL PRINCIPLE

The test specimens are exposed to heat for 7 continuous days in an air circulating chamber. The materials are read using a spectrophotometer for the baseline color value and then read after the exposure. The Delta E is listed to show the color value change resulting from each exposure.

## TEST RESULTS

|                    | <b>DELTA E (<math>\Delta E</math>) Rating</b> | <b>Gray Scale Rating</b> |
|--------------------|---|--------------------------|
| Heat Aged Sample 1 | 0.04  | 5.0                      |
| Heat Aged Sample 2 | 0.11  | 5.0                      |
| Heat Aged Sample 3 | 0.04  | 5.0                      |

Test requirements of < 8.0 Delta E were met by the tested samples.

| <b>AATCC RATING KEY</b> |                     |
|-------------------------|---------------------|
| <b>5</b>                | No change           |
| <b>4</b>                | Slight change       |
| <b>3</b>                | Noticeable change   |
| <b>2</b>                | Considerable change |
| <b>1</b>                | Severe change       |

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### TEST REPORT

DATE: 10-18-2019

Page 1 of 1

TEST NUMBER: 0260689

|               |           |
|---------------|-----------|
| <b>CLIENT</b> | Rok Plank |
|---------------|-----------|

|                              |  |
|------------------------------|--|
| <b>TEST METHOD CONDUCTED</b> | ASTM F1515 Measuring Light Stability of Resilient Flooring by Color Change |
|------------------------------|--|



| <b>DESCRIPTION OF TEST SAMPLE</b> |           |
|-----------------------------------|-----------|
| <b>IDENTIFICATION</b>             | Rok Plank |

#### GENERAL PRINCIPLE

The test specimens are exposed to accelerated light via xenon light using the standard irradiance as listed in the method. The materials are read using a spectrophotometer for the baseline color value and then read after 100, 200, and 300 hours of exposure. The Delta E is listed to show the color value change resulting from each exposure.

#### TEST RESULTS

|                               | <b>DELTA E (<math>\Delta E</math>) Rating</b> | <b>Gray Scale Rating</b> |
|-------------------------------|---|--------------------------|
| <b>100 AFU Exposed Sample</b> | 0.21  | 5.0                      |
| <b>200 AFU Exposed Sample</b> | 0.30  | 5.0                      |
| <b>300 AFU Exposed Sample</b> | 0.24  | 5.0                      |

Test requirements of < 8.0 Delta E MEETS specified criteria.

| <b>AATCC RATING KEY</b> |                     |
|-------------------------|---------------------|
| <b>5</b>                | No change           |
| <b>4</b>                | Slight change       |
| <b>3</b>                | Noticeable change   |
| <b>2</b>                | Considerable change |
| <b>1</b>                | Severe change       |

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**Test Items, Method and Results:**

Test Method: ASTM E492-09

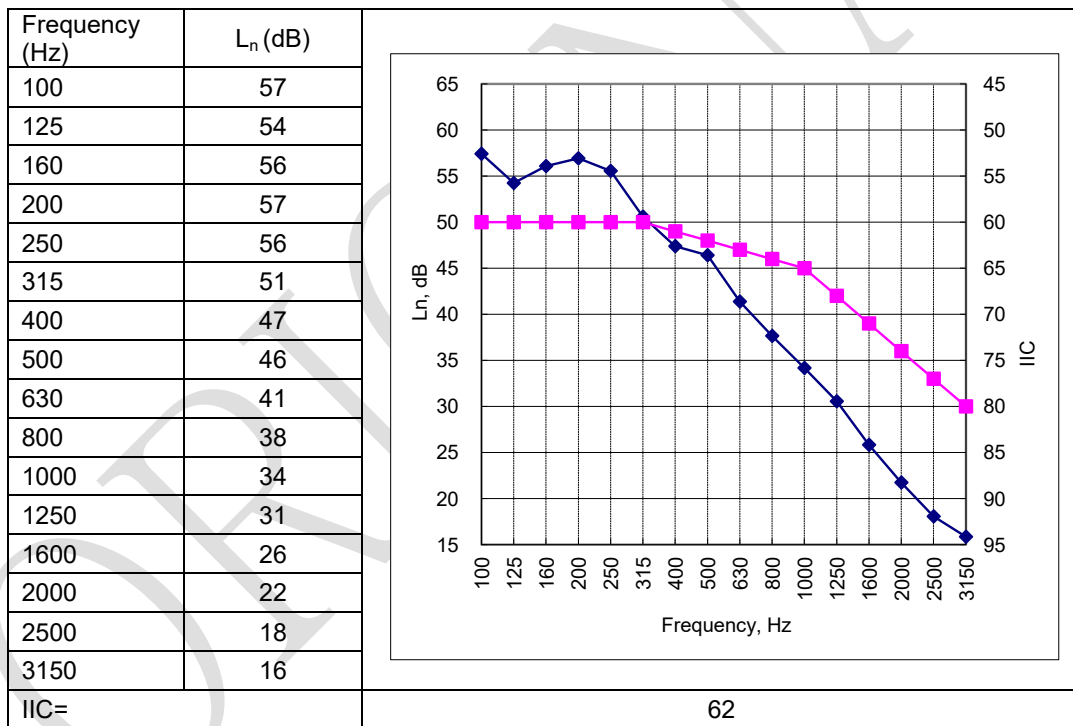
Temperature: 25°C

Relative Humidity: 63%

Specimen area: 10.5m<sup>2</sup>

Volume of the receiving room: 111m<sup>3</sup>

Floor/ceiling Assembly: The system consisted of 150mm thick concrete floor with a drop ceiling below forming the horizontal separation between two rooms, one directly above the other. The drop ceiling consisted of 350mm deep light steel bar joists spaced 1200mm on centre. The 12mm thick gypsum boards were fixed on the bar. 100mm thick fibre glass sound batts were placed in the 350mm space. A high density cross-link polyethylene underlayment was placed upon the concrete and the 5.5mm thick PVC flooring specimens were placed on the top of the whole system.



**Calculated Impact Insulation Class: IIC 62**

Note:

1. L<sub>n</sub> = Normalized Sound Pressure Level for Covering over Floor/ceiling System
2. Classified IIC in accordance with ASTM E989-12, Standard Classification for Determination of Impact Insulation Class.
3. The IIC was for the whole floor/ceiling assembly system.

**Appendix A: Sample photos**



Test sample

\*\*\*\*\*

The End of Report

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## PRODUCT SOUND QUALITY RESULTS

### CALCULATED IMPACT INSULATION CLASS: IIC 62

TEST METHOD: ASTM E492-09

TEMPERATURE: 25 C

RELATIVE HUMMIDITY: 63%

SPECIMEN AREA: 10.5m<sup>2</sup>

VOLUME OF THE RECEIVING ROOM: 111m<sup>3</sup>

- NORMALIZED SOUND PRESSURE LEVEL FOR COVERING OVER THE FLOOR / CEILING SYSTEM
- CLASSIFIED IIC IN ACCORDANCE WITH E989-12, STANDARD CLASSIFICATION FOR DETERMINATION OF IMPACT INSULATION
- THE IIC WAS FOR THE WHOLE FLOOR / CEILING ASSEMBLY SYSTEM.

### CALCULATED SOUND TRANSMISSION CLASS: STC 60

TEST METHOD: ASTM E90-09

TEMPERATURE: 25 C

RELATIVE HUMMIDITY: 63%

SPECIMEN AREA: 10.5m<sup>2</sup>

VOLUME OF THE RECEIVING ROOM: 111m<sup>3</sup>

- 1 TRANSMISSION LOSS, THE PARTITION WAS THE FLOOR / CEILING ASSEMBLY SYSTEM
- CLASSIFIED STC IN ACCORDANCE WITH ASTM E413-10, CLASSIFICATION FOR RATING SOUND INSULATION
- THE STC WAS FOR THE WHOLE FLOOR / CEILING ASSEMBLY SYSTEM

\*\*RESULTS BASED ON PRODUCTS WITH 1MM IXPE UNDERPADS WITH 100KG/M3 DENSITY. SUPPLIED BY RUNYANG\*\*

\*\*1.5MM UNDERPADS AVAILABLE FOR SPECIAL ORDER FOR PROJECTS THAT REQUIRE HIGHER RATINGS\*\*



# TEST REPORT

DATE: 04-21-2020

Page 1 of 1

TEST NUMBER: 0266662

|                                   |  |
|-----------------------------------|--|
| <b>CLIENT</b>                     | Rok Plank  |
| <b>TEST METHOD CONDUCTED</b>      | ISO 4918 Resilient, Textile and Laminate Floor Coverings - Castor Chair Test |
| <b>DESCRIPTION OF TEST SAMPLE</b> |  |
| <b>IDENTIFICATION</b>             | RokPlank   |
| <b>COLOR</b>                      | RokPlank   |
| <b>CONSTRUCTION</b>               | SPC  |

## GENERAL PRINCIPLE

This test is designed to determine what effect the action of rolling traffic has on a particular flooring surface. The sample is subjected to the reciprocating action of a chair base which is loaded with weight. The chair castors are set to cause a circular cycling motion resulting in a circle shaped wear pattern.

## TEST RESULTS

| NUMBER OF CYCLES | APPEARANCE RATING   |
|------------------|---|
| 25,000           | No delamination or seam separation. Per client's request, sample was rated for surface change only. |



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**MERKEZİ BAŞKANLIĞI**  
**Yapı Malzemeleri Laboratuvarı Ankara**  
**Müdürlüğü**



*TURKISH STANDARDS INSTITUTION*  
*HEADSHIP OF TEST and CALIBRATION CENTER*  
*Construction Materials Laboratory (Ankara)*  
Necatibey Cad. No:112.06100 Bakanlıklar Çankaya / ANKARA  
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www.tse.org.tr

|           |
|-----------|
| AB-0001-T |
| 626892    |
| 08-21     |

**MUAYENE VE DENEY RAPORU**  
**TEST REPORT**

**Deneysel Talep Eden/Firma** : TRUSA MERMER SAN. TİC. LTD. ŞTİ.  
(Adı, Adresi, Şehir vb.) (TURANKÖY MAH. TURANKÖY 7. SOK. NO: 1/4 Kestel-BURSA)  
**Requesting/Customer**  
(Name, Address, City etc.)

**Deneysel Talep Tarihi/No** : 17.08.2021 / 616530  
**Order Date / No**

**Numunenin Tanımı** : 800159, . . . . 0.00 -  
(No, Cins, Marka, Tip, Tür, Model vb.)  
**Sample Description (No, Type, Model etc.)** 800159, TRU-STONE SPC CLICK Vinyl Flooring 4-1 mm IXPE 0,55 mm, Product specifications: SPC (Parke):  
4 mm IXPE PAD (Mattress): 1 mm Dimensions: 181 mm\*1219,2 mm, ., 0,00 -

**Numune Kabul Tarihi** : 17.08.2021  
**Test Item Receipt Date**

**Deneysel Yapıldığı Tarih** : 17.08.2021 - 18.08.2021  
**Date of Test**

**Uygulanan Standard / Metod** : İlgili standartlar müteakip sayfalarda verilmiştir.  
**Applied Standard/Method**  
*The standards were given in the next pages.*

**Raporun Sayfa Sayısı** : 2  
**Number of pages of the report**

**Açıklamalar** :  
**Remarks**  
*Private Investigation*  
*This report is the translation of the the test report with 13.08.2021 date and 626129 report number and the results in this report based on the results in the previous report in question. New test has not been conducted.*

**Deneysel laboratuvarları olarak faaliyet gösteren TSE Deneysel ve Kalibrasyon Merkezi Başkanlığı Deneysel Laboratuvarları TÜRKAK'tan AB-0001-T ile TS EN ISO/IEC 17025:2012 standardına göre akredite edilmiştir.**  
*TSE Headship of Test and Calibration Center Testing Laboratories accredited by TÜRKAK under registration number AB-0001-T for TS EN ISO/IEC 17025:2012 as test laboratory.*

**TÜRKAK deneysel raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği (EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.**  
*TURKAK is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.*

Deneysel ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deneysel metodları bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.  
*The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.*



**Mühür** Tarih  
**Seal** Date  
**Deneysel Sorumlusu**  
**Person in charge of tests**  
**Öner KORKMAZGÖZ**  
**Deneysel Personel**  
**Testing Expert**

**Onaylayan**  
**Approved by**  
**Hasan AKSU**  
**Laboratuvar Müdürü V.**  
**Laboratory Manager Dep.**

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir. Bu rapor, sadece deneysel yapılan numune için geçerlidir ve "Ürün Belgesi" yerine geçmez.  
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DENEY VE KALIB. MERKEZİ BAŞKANLIĞI YAPI MALZ. LABORATUVARI MÜDÜRLÜĞÜ (ANKARA)  
HEADSHIP OF TSE TEST and CALIB. CENTRE CONSTRUCTION MATERIALS LABORATORY (ANKARA)

## MUAYENE - DENEY SONUÇLARI TEST RESULTS

AB-0001-T

626892

08-21

**TESTS;** Are performed at  $23 \pm 2$  °C temperature and  $50 \pm 5$  humidity.

**NOTE:** The samples are conditioned for one week at  $23 \pm 2$  °C and  $50 \pm 5$  % relative humidity

**Table 1- Tests and properties**

| PROPERTIES  | TEST METHOD               | UNIT     | RESULTS  |
|---|---------------------------|----------|--|
| Assessment of the surface resistance to microscratching | TS EN 16094 (Procedure A) | % Change | -Brightness before test 60° (Gloss)= 4,8-4,6-4,6-4,6<br>Average.= 4,65<br>-Brightness after test 60° (Gloss)= 4,7-4,6-4,6-4,6<br>Average = 4,63<br>Change: %0,4 (MSR-A1) |
| Assessment of the surface resistance to microscratching | TS EN 16094 (Procedure B) | Change   | MSR-B1 (No visible scratches)  |
| (*)Resistance to staining                               | TS EN 438-2               | Class    | 5<br>No change<br>Test area indistinguishable from adjacent surrounding area<br>5 staining agents marked with * in Table 7 of TS EN 438-2 were used.                     |

-This test report represents only tested sample(s), and shall not be used as Product Certificate

-This report is arranged at 18.08.2021 as two pages and two copies.

LAB-D-FR-36/11.06.2020-6

(\*) Marked articles are accredited by TÜRKAK

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www.tse.org.tr

**MUAYENE VE DENEY RAPORU**  
**TEST REPORT**

620996

07-21

|  |   |
|--|---|
| <b>Deneysel Talep Eden/Firma</b><br>(Adı, Adresi, Şehir vb.)<br><i>Requesting/Customer</i><br>(Name, Address, City etc.) | : TRUSA MERMER SAN. VE TİC. LTD. ŞTİ<br>(TRUSA MERMER SAN. TİC. LTD. ŞTİ.: TURANKÖY MAH. TURANKÖY 7.SOK.<br>NO:1/4 Kestel-BURSA)  |
| <b>Deneysel Talep Tarihi/No</b><br><i>Order Date / No</i>  | : 27.05.2021 / 586505   |
| <b>Numunenin Tanımı</b><br>(No, Cins, Marka, Tip, Tür, Model vb.)<br><i>Sample Description (No, Type, Model etc.)</i>    | : 773248, YER DÖŞEMESİ, , , - , - , 20,00 adet<br>773248, FLOOR COVERING, , , - , - , 20,00 item  |
| <b>Numune Kabul Tarihi</b><br><i>Test Item Receipt Date</i>  | : 27.05.2021  |
| <b>Deneysel Yapıldığı Tarih</b><br><i>Date of Test</i>   | : 28.05.2021 - 14.07.2021   |
| <b>Uygulanan Standard / Metod</b><br><i>Applied Standard/Method</i>  | : TS EN 16511+A1: 2019-09 Gevşek-döşenen paneller - Yarı-rijit çok tabakalı, aşınmaya dayanıklı üst tabakası olan modüler yer kaplama paneller (MMF)<br>TS EN 16511+A1: 2019-09 Loose-laid panels - Semi-rigid multilayer modular floor covering (MMF) panels with wear resistant top layer   |
| <b>Raporun Sayfa Sayısı</b><br><i>Number of pages of the report</i>  | : 3   |
| <b>Açıklamalar</b><br><i>Remarks</i>   | : Bu rapor 14/07/2021 tarih ve 620996 sayılı raporun yerine geçmektedir. 14/07/2021 tarihli raporun 2'nolu sayfasına firma beyanı eklenmiştir. Yeniden deney yapılmamış redaksiyonel düzeltme yapılmıştır.<br><i>This report replaces 07/14/2021 dated and 620996 numbered report. Firm declaration is added to the second page of 07/14/2021 dated report. New test were not performed. Editorial corrections were made.</i> |

**Yukarıda tanımlanan numune için laboratuvarımızda yapılan muayene ve deneylerden elde edilen sonuçlar müteakip sayfalarda verilmiştir.**  
*The testing and/or measurement results are given on the following pages which are part of this report.*

Numune müşteri tarafından alınmıştır, bu rapordaki sonuçlar numunenin teslim alındığı hali için geçerlidir. Bu rapor özel deney talebine istinaden düzenlenmiş olup, Standartlara Uygunluk Belgesi niteliğinde değildir. Partiyi temsil etmez. Piyasa Gözetim ve Denetim Faaliyetlerine esas oluşturamaz, ilan, reklam ve ihalelerde 6102 sayılı Türk Ticaret Kanunu'nun 54. ve 55. Maddelerinde yer alan haksız rekabet hükümlerine aykırılık teşkil edecek şekilde kullanılamaz. Söz konusu hususlara aykırı hareket edilmesi halinde hukuki ve cezai açıdan TSE sorumlu tutulamaz.

*The sample was taken by the customer and the results in this report are valid for the status of the sample being received. This report has been prepared in accordance with the request for special tests and is not qualified as a Certificate of Conformity to Standards. It does not represent the party, does not constitute a basis for Market Surveillance and Audit Activities, and cannot be used in announcement, advertisements and tenders in contradiction with the provisions of unfair competition in Articles 54 and 55 of the Turkish Commercial Law No. 6102. TSE cannot be held responsible in case of violation of these issues in legal and criminal terms.*

**Mühür** **Tarih**

Seal Date

**Deneysel Sorumlusu**

Person in charge of tests

**Onaylayan**

Approved by



İlker AKPINAR  
Deneysel Personeli  
Testing Expert

Ahmet Onder ELİRİ  
Laboratuvar Müdürü V.  
Laboratory Manager Dep.

Bu rapor hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Bu rapor, sadece deney yapılan numune için geçerlidir ve "Ürün Belgesi" yerine geçmez.  
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## MUAYENE - DENEY SONUÇLARI TEST RESULTS

Company declaration: 1219,2 mmX 181 mm X 4mm

### 4.1- General requirements (Table 1)

| REQUIREMENT OF THE STANDARD   | OBTAINED VALUES |       |
|---|-----------------|-------|
| <b>Thickness t, ISO 24337</b> ,<br>$\Delta t$ average $\leq 0,50$ mm,relative to nominal value<br>t max.- t min $\leq 0,50$ mm  | 0,73            |       |
|   | 0,10            |       |
| <b>Length, l ISO 24337</b> , l For the nominal values given, no measured value shall exceed:<br>l $\leq 1500$ mm: $\Delta l \leq 0,5$ mm<br>l $> 1500$ mm: $\Delta l \leq 0,3$ mm/m | 0,2             |       |
| <b>Width, w ISO 24337</b> ,<br>$\Delta w$ avg $\leq 0,10$ mm,relative to nominal value<br>wmax - wmin $\leq 0,20$ mm  | 0,07            |       |
|   | 0,16            |       |
| <b>Squareness, q, ISO 24337</b> ,<br>qmax $\leq 0,20$ mm  | 0,15            |       |
| <b>Straightness, s, ISO 24337</b> ,<br>smax $\leq 0,30$ mm/m  | 0,13            |       |
| <b>Maximum single values:</b><br>fw, concave $\leq 0,15$ %, fw, convex $\leq 0,20$ %<br>fl, concave $\leq 0,50$ %, fl, convex $\leq 1,00$ %   | fw concave      | %0,00 |
|   | fw convex       | %0,08 |
|   | fl concave      | %0,00 |
|   | fl convex       | %0,27 |
| <b>Openings, ISO 24337, o</b><br>Oavg $\leq 0,15$ mm<br>O max $\leq 0,20$ mm  | O avg           | 0,00  |
|   | O max           | 0,00  |
| <b>Height difference, ISO 24337, h</b><br>h avg $\leq 0,10$ mm<br>hmax $\leq 0,15$ mm   | h avg           | 0,01  |
|   | hmax            | 0,04  |
| <b>Static indentation (EN ISO 24343-1)</b><br>for class 21-22, 23, 31 $\leq 0,3$ mm,<br>for class 32, 33 $\leq 0,2$ mm,<br>for class 34 $\leq 0,15$ mm                              | 0,01            |       |

Company declaration: TRU-STONE SPC-CLICK Vinyl flooring 4+1 mm IXPE 0,55MM



MUAYENE - DENEY SONUÇLARI TEST RESULTS

4.2 General requirements (Table 2)

| REQUIREMENT OF THE STANDARD   | OBTAINED VALUES  |
|---|--|
| <b>Abrasion resistance for method A EN 13329:2006+A1:2008 (EK-E)</b><br>for class 21-22 $\geq 200$ rotation, for class 23 $\geq 400$ rotation,<br>for class 31 $\geq 600$ rotation , for class 32 $\geq 1200$ rotation,<br>for class 33 $\geq 2000$ rotation , for class 34 $\geq 4000$ rotation,   | CLASS 33<br>(3400 ROTATION)                                  |
| <b>Impact resistancei (Big Ball)</b><br><b>EN 13329:2006+A1:2008 (EK-F<sup>f</sup>)</b><br>for class21-22 $\geq 400$ mm, for class 23 $\geq 600$ mm,<br>for class31 $\geq 800$ mm, for class 32 $\geq 1200$ mm,<br>for class33 $\geq 1600$ mm, for class 34 $\geq 1800$ mm,   | >2000 mm   |
| <b>Effect of a furniture leg (EN 424, 0 leg type)</b><br>No requirement for class 21,22,23,31 class<br>For the other classes, no damage shall be visible,when tested with foot type 0   | NO DAMAGE  |
| <b>Effect of a castor chair( TS EN ISO 4918)</b><br>No requirement for class 21,22,23 class<br>for class 31 10000 rotation <sup>a,c</sup><br>for class32, 33, 34 25000 rotation <sup>a,c</sup>  | NO DAMAGE<br>(25000 ROTATION)                                |
| <b>Thickness swelling*(%) (ISO 24336)</b><br>for class 21-22, 23, 31 $\leq \% 20,0$<br>for class 32 , 33, $\leq \% 18,0$<br>for class34 $\leq \% 12$  | %1,8   |
| <b>Determination of locking strength<sup>bi</sup> ** (kN/m) (ISO 24334)</b><br>No requirement for Class 21, Class 22, Class 23, Class 31<br>for class 32, 33 (length) 1 kN/m , (width) 1,5 kN/m<br>for class (length)r 2.0 kN/m, (width) 3,5 kN/m<br><b>Determination of locking strength<sup>bi</sup> * (ISO 24334)</b><br>No requirement for Class 21, Class 22, Class 23, Class 31<br>for class 32, 33 (length) 1 kN/m,(width) 2,0 kN/m<br>for class 34 (length) 1,0 kN/m,(width) 3,5 kN/m   | The experiment could not be conducted due to device failure. |
| a No disturbance to the surface only gloss changes, no delamination, cracks or disruptions.<br>b Only for loose-laid panels.<br>d Take the maximum of Cavg from wet climate (23 °C, 85 % relative humidity) and the minimum of Cavg from dry climate (23 °C, 30 % relative humidity) for the evaluation.<br>c Tested with soft wheels on loose laid panels without underlayment<br>* Only for panels with substrates or layers with hygroscopic properties, e.g. HDF or cork.<br>** Only for products with significant reaction on temperature changing, e.g. thermoplastic vinyl core. |  |
| <b>Company declaration:</b> TRU-STONE SPC-CLICK Vinyl flooring 4+1 mm IXPE 0,55MM   |  |