

|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             |                                                                                      |                                  |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------|----------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test Report No.:                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>SI500410 001</b>                                                                                                                                                                         | <b>Auftrags-Nr.:</b><br>Order No.:                                                   | 244411730                        | Seite 1 von 6<br>Page 1 of 6     |
| <b>Kunden-Referenz-Nr.:</b><br>Client Reference No.:                                                                                                                                                                                                                                                                                                                                                                                                        | N/A                                                                                                                                                                                         | <b>Auftragsdatum:</b><br>Order date:                                                 | 09.03.2022                       |                                  |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                             | ZHEJIANG OUSIKAI NEW MATERIAL CO., LTD.<br>No. 1829, XIANGHONG ROAD, JIANSHAN NEW DISTRICT, HUANGWAN, HAINING CITY, ZHEJIANG PROVINCE, CHINA                                                |                                                                                      |                                  |                                  |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                        | Floor covering                                                                                                                                                                              |                                                                                      |                                  |                                  |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type No.:                                                                                                                                                                                                                                                                                                                                                                                                 | SPC FLOOR<br>OSK901                                                                                                                                                                         |                                                                                      |                                  |                                  |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                   | Testing report                                                                                                                                                                              |                                                                                      |                                  |                                  |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                | EN 13501-1:2018<br>Fire classification of construction products and building elements - Part 1:<br>Classification using data from reaction to fire tests<br><b>Class B<sub>fl</sub>- S1</b> |                                                                                      |                                  |                                  |
| <b>Wareneingangsdatum:</b><br>Date of receipt:                                                                                                                                                                                                                                                                                                                                                                                                              | 14.03.2022                                                                                                                                                                                  |  |                                  |                                  |
| <b>Prüfmuster-Nr.:</b><br>Test sample No.:                                                                                                                                                                                                                                                                                                                                                                                                                  | 1V0322000098                                                                                                                                                                                |                                                                                      |                                  |                                  |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                     | 14.03.2022 - 17.03.2022                                                                                                                                                                     |                                                                                      |                                  |                                  |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                | Guangzhou                                                                                                                                                                                   |                                                                                      |                                  |                                  |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                             | TÜV Rheinland (Shanghai)<br>Co., Ltd.                                                                                                                                                       |                                                                                      |                                  |                                  |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                      | Pass                                                                                                                                                                                        |                                                                                      |                                  |                                  |
| <b>geprüft von / tested by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             | <b>kontrolliert von / reviewed by:</b>                                               |                                  |                                  |
| 25.03.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Daniel Chen / Author                                                                                                                                                                        | 06.04.2022                                                                           | Junjie Lu / Reviewer             |                                  |
| <b>Datum</b><br>Date                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Name / Stellung</b><br>Name / Position                                                                                                                                                   | <b>Unterschrift</b><br>Signature                                                     | <b>Issue Datum</b><br>Issue Date | <b>Issue Datum</b><br>Issue Date |
| <b>Sonstiges / Other:</b><br><br>Samples are prepared by client.                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                             |                                                                                      |                                  |                                  |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             | <b>Prüfmuster vollständig und unbeschädigt</b><br>Test item complete and undamaged   |                                  |                                  |
| <p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft<br/>P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</p> <p>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor<br/>P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>              |                                                                                                                                                                                             |                                                                                      |                                  |                                  |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br/>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.</p> |                                                                                                                                                                                             |                                                                                      |                                  |                                  |

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[illegible]

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**Produktbeschreibung**  
**Product description**

|          |                                                                |                                      |
|----------|----------------------------------------------------------------|--------------------------------------|
| <b>1</b> | <b>Produktdetails</b><br><i>Product details</i>                | Floor covering<br>SPC FLOOR - OSK901 |
| <b>2</b> | <b>Maße / Gewicht</b><br><i>Dimensions / Weight</i>            | 2. 5 m <sup>2</sup>                  |
| <b>3</b> | <b>Bedienelemente</b><br><i>Operating elements</i>             | N/A                                  |
| <b>4</b> | <b>Ausstattung / Zubehör</b><br><i>Equipment / Accessories</i> | N/A                                  |
| <b>5</b> | <b>Verwendete Materialien</b><br><i>Used materials</i>         | N/A                                  |
| <b>6</b> | <b>Sonstiges</b><br><i>Other</i>                               | N/A                                  |

Front View



Products



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| 1                                      | <div>Test conducted</div> <div>This test was conducted as per EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. And the test methods as following:<div>1. EN ISO 9239-1:2010 Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source;</div><div>2. EN ISO 11925-2:2010 Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single-flame source test.</div></div>                                                                                                                                                                                                                                                                                                                                                                              |                  |           |                  |         |                       |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|------------------|---------|-----------------------|---------|---------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|-------|------|-----------------------|------------------|-------|------|-----------------------|-------|--|-----------|-------|----|----|----------------------------------------|----|--|----|-------|-------|-----------------------|
| 2                                      | <div>Test results</div> <table><tr><th>Test method</th><th colspan="2">Parameter</th><th>Unit</th><th>Req.</th><th>Results</th><th>Verdict</th></tr><tr><td rowspan="3">EN ISO 9239-1:2010</td><td rowspan="2">Critical flux</td><td>Parallel</td><td rowspan="2">(kW/m²)</td><td>≥ 8.0</td><td>≥ 11</td><td>Class B<sub>fl</sub></td></tr><tr><td>Perpendicularity</td><td>≥ 8.0</td><td>≥ 11</td><td>Class B<sub>fl</sub></td></tr><tr><td colspan="2">Smoke</td><td>%×minutes</td><td>≤ 750</td><td>68</td><td>s1</td></tr><tr><td>EN ISO 11925-2:2010<br/>Exposure = 20 s</td><td colspan="2">Fs</td><td>mm</td><td>≤ 150</td><td>&lt; 150</td><td>Class B<sub>fl</sub></td></tr></table>                                                                                                                                                                                                                                                                       | Test method      | Parameter |                  | Unit    | Req.                  | Results | Verdict | EN ISO 9239-1:2010 | Critical flux                                                                                                                                                      | Parallel | (kW/m²) | ≥ 8.0 | ≥ 11 | Class B <sub>fl</sub> | Perpendicularity | ≥ 8.0 | ≥ 11 | Class B <sub>fl</sub> | Smoke |  | %×minutes | ≤ 750 | 68 | s1 | EN ISO 11925-2:2010<br>Exposure = 20 s | Fs |  | mm | ≤ 150 | < 150 | Class B <sub>fl</sub> |
| Test method                            | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  | Unit      | Req.             | Results | Verdict               |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
| EN ISO 9239-1:2010                     | Critical flux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Parallel         | (kW/m²)   | ≥ 8.0            | ≥ 11    | Class B <sub>fl</sub> |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Perpendicularity |           | ≥ 8.0            | ≥ 11    | Class B <sub>fl</sub> |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
|                                        | Smoke                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  | %×minutes | ≤ 750            | 68      | s1                    |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
| EN ISO 11925-2:2010<br>Exposure = 20 s | Fs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | mm        | ≤ 150            | < 150   | Class B <sub>fl</sub> |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
| 3                                      | <div>Classification and direct field of application</div> <div>This classification has been carried out in accordance with EN 13501-1:2018.</div> <div>a) Classification</div> <div>The product, Floor covering: SPC FLOOR, classification is as following,</div> <table><tr><th colspan="2">Fire behaviour</th><th colspan="2">Smoke production</th></tr><tr><td>B<sub>fl</sub></td><td>—</td><td>s</td><td>1</td></tr></table> <div>Reaction to fire classification: B<sub>fl</sub>—S1</div> <div>Note: The classes with their corresponding fire performance are given in annex A.</div> <div>b) Field of application</div> <div>This classification for the submitted sample is valid for the following end use condition:<div>--- With all substrates classified A1 and A2</div><div>--- With mechanical fixing</div><div>--- With joint</div><div>--- No an air gap</div></div> <div>This classification is valid for the following product parameters:</div> | Fire behaviour   |           | Smoke production |         | B <sub>fl</sub>       | —       | s       | 1                  | <div>P<input checked="" type="checkbox"/></div> <div>F<input type="checkbox"/></div> <div>N/A<input type="checkbox"/></div> <div>N/T<input type="checkbox"/></div> |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
| Fire behaviour                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Smoke production |           |                  |         |                       |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |
| B <sub>fl</sub>                        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | s                | 1         |                  |         |                       |         |         |                    |                                                                                                                                                                    |          |         |       |      |                       |                  |       |      |                       |       |  |           |       |    |    |                                        |    |  |    |       |       |                       |

P ☒  
F ☐  
N/A ☐  
N/T ☐

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--- Characteristics of specimen as described in § II b of this test report

**Statement:** The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

**Warning:**

This classification report does not represent type approval or certification of the product.

**The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.**

**Annex A Classes of reaction to fire performance for floorings**

| class            | Test methods                                 |     | Classification                                                                                                                                                                   | Additional classification     |
|------------------|----------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| A1 <sub>fl</sub> | EN ISO 1182 <sup>a</sup> and                 |     | $\Delta T \leq 30^{\circ}\text{C}$ , and<br>$\Delta m \leq 50\%$ , and<br>$t_f=0$ (i.e. no sustained flaming)                                                                    | -                             |
|                  | EN ISO 1716                                  |     | PCS $\leq$ 2.0MJ/kg <sup>a</sup> and<br>PCS $\leq$ 2.0MJ/kg <sup>b</sup> and<br>PCS $\leq$ 1.4MJ/m <sup>2</sup> <sup>c</sup> and<br>PCS $\leq$ 2.0MJ/kg <sup>d</sup>             | -                             |
| A2 <sub>fl</sub> | EN ISO 1182 <sup>a</sup><br>or               | and | $\Delta T \leq 50^{\circ}\text{C}$ , and<br>$\Delta m \leq 50\%$ , and<br>$t_f \leq 20\text{s}$                                                                                  | -                             |
|                  | EN ISO 1716                                  |     | PCS $\leq$ 3.0MJ/kg <sup>a</sup> and<br>PCS $\leq$ 4.0MJ/m <sup>2</sup> <sup>b</sup> and<br>PCS $\leq$ 4.0MJ/m <sup>2</sup> <sup>c</sup> and<br>PCS $\leq$ 3.0MJ/kg <sup>d</sup> | -                             |
|                  | EN ISO 9239-1 <sup>e</sup>                   |     | Critical flux <sup>f</sup> $\geq 8.0\text{kW/ m}^2$                                                                                                                              | Smoke production <sup>g</sup> |
| B <sub>fl</sub>  | EN ISO 9239-1 <sup>e</sup> and               |     | Critical flux <sup>f</sup> $\geq 8.0\text{kW/ m}^2$                                                                                                                              | Smoke production <sup>g</sup> |
|                  | EN ISO 11925-2 <sup>h</sup><br>Exposure =15s |     | Fs $\leq$ 150mm within 20 s                                                                                                                                                      | -                             |
| C <sub>fl</sub>  | EN ISO 9239-1 <sup>e</sup> and               |     | Critical flux <sup>f</sup> $\geq 4.5\text{kW/ m}^2$                                                                                                                              | Smoke production <sup>g</sup> |
|                  | EN ISO 11925-2 <sup>h</sup><br>Exposure =15s |     | Fs $\leq$ 150mm within 20 s                                                                                                                                                      | -                             |
| D <sub>fl</sub>  | EN ISO 9239-1 <sup>e</sup> and               |     | Critical flux <sup>f</sup> $\geq 3.0\text{kW/ m}^2$                                                                                                                              | Smoke production <sup>g</sup> |
|                  | EN ISO 11925-2 <sup>h</sup><br>Exposure =15s |     | Fs $\leq$ 150mm within 20 s                                                                                                                                                      | -                             |
| E <sub>fl</sub>  | EN ISO 11925-2 <sup>h</sup><br>Exposure =15s |     | Fs $\leq$ 150mm within 20 s                                                                                                                                                      | -                             |
| F <sub>fl</sub>  | No performance determined                    |     |                                                                                                                                                                                  |                               |

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- <sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.  
<sup>b</sup> For any external non-substantial component of non-homogeneous products.  
<sup>c</sup> For any internal non-substantial component of non-homogeneous products.  
<sup>d</sup> For the product as a whole.  
<sup>e</sup> Test duration = 30 min.  
<sup>f</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>g</sup> s1 = Smoke ≤ 750 % minutes;  
s2 = not s1.  
<sup>h</sup> Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

**Photo Appendix:**



**Before Testing (EN ISO 9239-1)**



**After Testing (EN ISO 9239-1)**

**\*\*\*End of Report\*\*\***