

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                             |                                                                                     |                                                        |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Test report no.:</b><br><i>Testrapport nr.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>89221176 013</b>                                                                                                                                                                                                                                         | <b>Order No.:</b><br><i>Opdracht nr.:</i>                                           | 221176                                                 | Page 1 of 14<br><i>Pagina 1 van 14</i>                                                     |
| <b>Client Reference No.:</b><br><i>Klantreferentie nr.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                | 4501236606                                                                                                                                                                                                                                                  | <b>Order date:</b><br><i>Opdrachtdatum:</i>                                         | 01.08.2022                                             |                                                                                            |
| <b>Client:</b><br><i>Klant:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Forbo Flooring B.V., PO Box 13, 1560 AA Krommenie, The Netherlands                                                                                                                                                                                          |                                                                                     |                                                        |                                                                                            |
| <b>Test item:</b><br><i>Testvoorwerp:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Resilient floor covering                                                                                                                                                                                                                                    |                                                                                     |                                                        |                                                                                            |
| <b>Identification/ Type No.:</b><br><i>Benaming / Type nr.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                            | Marmoleum Click                                                                                                                                                                                                                                             |                                                                                     |                                                        |                                                                                            |
| <b>Order content:</b><br><i>Inhoud opdracht:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                           | Classification of burning behaviour                                                                                                                                                                                                                         |                                                                                     |                                                        |                                                                                            |
| <b>Test specification:</b><br><i>Testomschrijving:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                     | EN 13501-1:2018<br>Classification of burning behaviour<br>Test methods: Ignitability of products subjected to direct impingement of flame (EN ISO 11925-2:2020) and determination of the burning behaviour using a radiant heat source (EN ISO 9239-1:2010) |                                                                                     |                                                        |                                                                                            |
| <b>Date of sample receipt:</b><br><i>Ontvangstdatum monster:</i>                                                                                                                                                                                                                                                                                                                                                                                                                           | 02.08.2022                                                                                                                                                                                                                                                  |  |                                                        |                                                                                            |
| <b>Test sample No:</b><br><i>Testproefstuk nr.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                        | MT22-221176.13                                                                                                                                                                                                                                              |                                                                                     |                                                        |                                                                                            |
| <b>Testing period:</b><br><i>Testperiode:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                              | 02.08.2022 - 27.09.2022                                                                                                                                                                                                                                     |                                                                                     |                                                        |                                                                                            |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <br>X                                                                                                                                                                    |                                                                                     | <b>authorized by:</b><br><i>geautoriseerd door:</i>    | <br>X |
| <b>Date:</b> 03.10.2022<br><i>Datum:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ondertekend door: Michiel van de Vlekkert                                                                                                                                                                                                                   |                                                                                     | <b>Issue Date:</b> 03.10.2022<br><i>Datum uitgave:</i> | Ondertekend door: Tim Zandvliet                                                            |
| <b>Position / functie:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | jr. Engineer                                                                                                                                                                                                                                                |                                                                                     | <b>Position / functie:</b>                             | Expert                                                                                     |
| <b>Others /</b><br><i>Andere:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test result: See clause 4 on page 5.                                                                                                                                                                                                                        |                                                                                     |                                                        |                                                                                            |
| <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<br>* Legenda: P(ass) = voldoet aan test omschrijving F(ail) = voldoet niet aan test omschrijving N/A = niet van toepassing N/T = niet getest                                                                                                                                                                                                         |                                                                                                                                                                                                                                                             |                                                                                     |                                                        |                                                                                            |
| <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><br><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> |                                                                                                                                                                                                                                                             |                                                                                     |                                                        |                                                                                            |

Test report no.: 89221176 013  
Testrapport nr.:

Page 2 of 14  
Pagina 2 van 14

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 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. This report is only to be read as a whole. 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. Het rapport dient als geheel te worden gelezen. Er zijn geen opinies en interpretaties opgenomen binnen het rapport. Dit rapport bestaat uit meerdere pagina's en dient al 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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**Test report no.: 89221176 013**  
Testrapport nr.:

Page 3 of 14  
Pagina 3 van 14

**Product description**  
*Product omschrijving*

|          |                                                                     |                                                                                                                                                      |
|----------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <b>Product details:</b><br><i>Product details:</i>                  | Product identity: Marmoleum Click<br>Product type: Resilient floor covering                                                                          |
| <b>2</b> | <b>Other:</b><br><i>Andere:</i>                                     | Test sample(s), as well sample information, description, product details and intended usage was provided by customer.                                |
| <b>3</b> | <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.: 89221176 013  
Testrapport nr.:

Page 4 of 14  
Pagina 4 van 14

| Clause<br>Deel | Requirements - Tests /<br>Vereisten - Tests | Measuring results – Remarks<br>Meetresultaten – Opmerkingen | Result<br>Resultaat |
|----------------|---------------------------------------------|-------------------------------------------------------------|---------------------|
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|   |                                                                                                                                                                                                                                                                                  |                                          |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1 | <b>Construction data (indicative) of the product obtained by the testlaboratory after pre-conditioning</b><br><i>01-4.3-P.02-322-WI01</i>                                                                                                                                        |                                          |
|   | Test condition                                                                                                                                                                                                                                                                   | 23 ± 2°C and 50 ± 4% relative humidity   |
|   | Pre conditioning, duration                                                                                                                                                                                                                                                       | ≥ 48 h & until constant mass is achieved |
|   | Total thickness (mm)                                                                                                                                                                                                                                                             | 10.1                                     |
|   | Total mass (g/m <sup>2</sup> )                                                                                                                                                                                                                                                   | 9281                                     |
|   | Density (kg/m <sup>3</sup> )                                                                                                                                                                                                                                                     | 924                                      |
|   | <i>Note: the determined construction data are used for determination of constant mass, the used testmethod is not in accordance with the determination of construction data according the specification standard. Therefore the testresults should be handled as indicative.</i> |                                          |

|   |                                                                                                                    |  |  |                                                                                                                                                                                                                                                                                       |     |     |       |     |     |
|---|--------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------|-----|-----|
| 2 | <b>Ignitability of products subjected to direct impingement of flame</b><br><i>EN ISO 11925-2:2020<sup>a</sup></i> |  |  |                                                                                                                                                                                                                                                                                       |     |     |       |     |     |
|   | Date of testing                                                                                                    |  |  | 23.08.2022                                                                                                                                                                                                                                                                            |     |     |       |     |     |
|   | Pre-conditioning, climate                                                                                          |  |  | 23 ± 2°C and 50 ± 4% relative humidity                                                                                                                                                                                                                                                |     |     |       |     |     |
|   | Pre-conditioning, duration                                                                                         |  |  | ≥ 48 h & until constant mass is achieved                                                                                                                                                                                                                                              |     |     |       |     |     |
|   | Description of substrate                                                                                           |  |  | Particle board, thickness 20 ± 2 mm, density 680 ± 50 kg/m <sup>3</sup> conforming to EN 13238:2018                                                                                                                                                                                   |     |     |       |     |     |
|   | Flame application                                                                                                  |  |  | Surface                                                                                                                                                                                                                                                                               |     |     |       |     |     |
|   | Flame application time (s)                                                                                         |  |  | 15                                                                                                                                                                                                                                                                                    |     |     |       |     |     |
|   | Measurement uncertainty                                                                                            |  |  | Caused by the destructive nature of the test and pass/fail result no measurement uncertainty can be determined. Based on the validation of the test procedure and measurement set-up there is a presumption of conformity established which is approved with ISO 17025 accreditation. |     |     |       |     |     |
|   | Requirements according EN 13501-1                                                                                  |  |  | See clause 5 of this report                                                                                                                                                                                                                                                           |     |     |       |     |     |
|   | <b>Test result(s)</b>                                                                                              |  |  |                                                                                                                                                                                                                                                                                       |     |     |       |     |     |
|   | Orientation                                                                                                        |  |  | Length                                                                                                                                                                                                                                                                                |     |     | Width |     |     |
|   | Test sample                                                                                                        |  |  | 1                                                                                                                                                                                                                                                                                     | 2   | 3   | 1     | 2   | 3   |
|   | Ignition of the sample                                                                                             |  |  | Yes                                                                                                                                                                                                                                                                                   | Yes | Yes | Yes   | Yes | Yes |
|   | Flame tip reached 150 mm above the application point                                                               |  |  | No                                                                                                                                                                                                                                                                                    | No  | No  | No    | No  | No  |
|   | Duration after application when the flame tip reached the 150 mm above the application point (s)                   |  |  | N/A                                                                                                                                                                                                                                                                                   | N/A | N/A | N/A   | N/A | N/A |
|   | Extent of damaged area, length (mm)                                                                                |  |  | 42                                                                                                                                                                                                                                                                                    | 44  | 44  | 50    | 44  | 48  |
|   | Extent of damaged area, width (mm)                                                                                 |  |  | 10                                                                                                                                                                                                                                                                                    | 12  | 12  | 10    | 10  | 10  |
|   | Material melts                                                                                                     |  |  | Yes                                                                                                                                                                                                                                                                                   | Yes | Yes | Yes   | Yes | Yes |
|   | Shrinks away from flame without being ignited                                                                      |  |  | No                                                                                                                                                                                                                                                                                    | No  | No  | No    | No  | No  |
|   | After glowing                                                                                                      |  |  | No                                                                                                                                                                                                                                                                                    | No  | No  | No    | No  | No  |
|   | Flaming droplets/particles which caused ignition of filter paper                                                   |  |  | No                                                                                                                                                                                                                                                                                    | No  | No  | No    | No  | No  |

Test report no.: 89221176 013  
Testrapport nr.:

Page 5 of 14  
Pagina 5 van 14

| Clause<br>Deel | Requirements - Tests /<br>Vereisten - Tests | Measuring results – Remarks<br>Meetresultaten – Opmerkingen | Result<br>Resultaat |
|----------------|---------------------------------------------|-------------------------------------------------------------|---------------------|
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| <b>Determination of the burning behaviour using a radiant heat source</b><br><i>EN ISO 9239-1:2010<sup>a</sup></i>                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |             |
| Date of testing                                                                                                                                                                                                                                                   | 27.09.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |             |
| Pre-conditioning, climate                                                                                                                                                                                                                                         | 23 ± 2°C and 50 ± 4% relative humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |      |             |
| Pre-conditioning, duration                                                                                                                                                                                                                                        | ≥ 48 h & until constant mass is achieved                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |      |             |
| Description of substrate                                                                                                                                                                                                                                          | Particle board, thickness 20 ± 2 mm, density 680 ± 50 kg/m <sup>3</sup> conforming to EN 13238:2018                                                                                                                                                                                                                                                                                                                                                                                    |      |      |      |             |
| Fixing method                                                                                                                                                                                                                                                     | None, samples are tested loose laid on the substrate                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |      |             |
| Measurement uncertainty                                                                                                                                                                                                                                           | The measurement uncertainty for this test strongly depends on the products that are tested, based on that influence a measurement uncertainty for the method can't be determined. Information on the influence of the different products can be found in ISO 9239-1:2010 Annex B "Precision of the test method". Based on the validation of the test procedure and measurement set-up there is a presumption of conformity established which is approved with ISO 17025 accreditation. |      |      |      |             |
| Requirements according EN 13501-1                                                                                                                                                                                                                                 | See clause 5 of this report                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |      |             |
| <b>Test result(s)</b>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |             |
| Test sample                                                                                                                                                                                                                                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2    | 3    | 4    | Mean        |
| Orientation (Length: ↑ , Width: T )                                                                                                                                                                                                                               | ↑                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | T    | ↑    | ↑    | ↑           |
| Flame spread (cm)                                                                                                                                                                                                                                                 | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 33   | 36   | 33   | <b>35</b>   |
| CHF / HF-30 (kW/m <sup>2</sup> )                                                                                                                                                                                                                                  | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6.9  | 6.3  | 6.9  | <b>6.5</b>  |
| Maximum light attenuation (%)                                                                                                                                                                                                                                     | 54.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 51.0 | 55.9 | 57.7 | <b>56.1</b> |
| Smoke production (%.min)                                                                                                                                                                                                                                          | 486                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 340  | 465  | 340  | <b>430</b>  |
| Observations:<br>Specimen 1, 2, 3 and 4: No flashing, transitory- or sustained flaming are observed.<br>Specimen 1: Extinguished manually after the end of the test duration.<br>Specimen 2, 3 and 4: Extinguished naturally before the end of the test duration. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |             |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 4 | <b>Classification of burning behaviour</b><br><i>EN 13501-1:2018<sup>a</sup></i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
|   | The product, <b>Marmoleum Click</b> , in relation to its reaction to fire behaviour is classified:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>C<sub>fl</sub></b> |
|   | The additional classification in relation to smoke production is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>s1</b>             |
|   | <b>Reaction to fire classification : C<sub>fl</sub> – s1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
|   | Field of application <ul style="list-style-type: none"> <li>- As a floor covering in accordance with the nominal product parameters given on page 3.</li> <li>- On end use substrates of wood and of classes A1 and A2-s1,d0 according to EN 13238:2010.</li> <li>- Any way of fixation, glued down or loose laid.</li> </ul>                                                                                                                                                                                                                                                                          |                       |
|   | Statements <ul style="list-style-type: none"> <li>- This document does not represent type approval or certification of the product.</li> <li>- The test results only relate to the behaviour of the test specimens of the examined product under the particular conditions of the test in laboratory conditions; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.</li> <li>- The validity of this report will expire directly after alterations or modifications of the examined product (combination)(s) and/or the criteria.</li> </ul> |                       |

Test report no.: 89221176 013  
Testrapport nr.:

Page 6 of 14  
Pagina 6 van 14

| Clause<br>Deel | Requirements - Tests /<br>Vereisten - Tests | Measuring results – Remarks<br>Meetresultaten – Opmerkingen | Result<br>Resultaat |
|----------------|---------------------------------------------|-------------------------------------------------------------|---------------------|
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|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 5 | <b>Potential classes of reaction to fire performance for floorings</b><br>EN 13501-1:2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                                                                                                                                                                                |                               |
|   | Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test method(s)                                   | Classification criteria                                                                                                                                                                        | Additional classifications    |
|   | A1 <sub>fl</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EN ISO 1182 <sup>a</sup><br>and                  | $\Delta T \leq 30 \text{ }^{\circ}\text{C}$ ; and<br>$\Delta m \leq 50 \text{ } \%$ ; and<br>$t_f = 0$ (i.e. no sustained flaming)                                                             | -                             |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 1716                                      | $PCS \leq 2.0 \text{ MJ/kg}$ <sup>a</sup> and<br>$PCS \leq 2.0 \text{ MJ/m}^2$ <sup>b</sup> and<br>$PCS \leq 1.4 \text{ MJ/m}^2$ <sup>c</sup> and<br>$PCS \leq 2.0 \text{ MJ/kg}$ <sup>d</sup> | -                             |
|   | A2 <sub>fl</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EN ISO 1182 <sup>a</sup><br>or                   | $\Delta T \leq 50 \text{ }^{\circ}\text{C}$ and<br>$\Delta m \leq 50 \text{ } \%$ and<br>$t_f \leq 20 \text{ s}$                                                                               | -                             |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 1716<br>and                               | $PCS \leq 3.0 \text{ MJ/kg}$ <sup>a</sup> and<br>$PCS \leq 4.0 \text{ MJ/m}^2$ <sup>b</sup> and<br>$PCS \leq 4.0 \text{ MJ/m}^2$ <sup>c</sup> and<br>$PCS \leq 3.0 \text{ MJ/kg}$ <sup>d</sup> | -                             |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 9239-1 <sup>e</sup>                       | $CHF \geq 8.0 \text{ kW/m}^2$                                                                                                                                                                  | Smoke production <sup>g</sup> |
|   | B <sub>fl</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 9239-1 <sup>e</sup><br>and                | $CHF \geq 8.0 \text{ kW/m}^2$                                                                                                                                                                  | Smoke production <sup>g</sup> |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 11925-2 <sup>h</sup> :<br>Exposure = 15 s | $F_s \leq 150 \text{ mm}$ within 20 s                                                                                                                                                          | -                             |
|   | C <sub>fl</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 9239-1 <sup>e</sup><br>and                | $CHF \geq 4.5 \text{ kW/m}^2$                                                                                                                                                                  | Smoke production <sup>g</sup> |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 11925-2 <sup>h</sup> :<br>Exposure = 15 s | $F_s \leq 150 \text{ mm}$ within 20 s                                                                                                                                                          | -                             |
|   | D <sub>fl</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 9239-1 <sup>e</sup><br>and                | $CHF \geq 3.0 \text{ kW/m}^2$                                                                                                                                                                  | Smoke production <sup>g</sup> |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 11925-2 <sup>h</sup> :<br>Exposure = 15 s | $F_s \leq 150 \text{ mm}$ within 20 s                                                                                                                                                          | -                             |
|   | E <sub>fl</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 11925-2 <sup>h</sup> :<br>Exposure = 15 s | $F_s \leq 150 \text{ mm}$ within 20 s                                                                                                                                                          | -                             |
|   | F <sub>fl</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EN ISO 11925-2 <sup>h</sup> :<br>Exposure = 15 s | $F_s > 150 \text{ mm}$ within 20 s                                                                                                                                                             | -                             |
|   | <sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.<br><sup>b</sup> For any external non-substantial component of non-homogeneous products.<br><sup>c</sup> For any internal non-substantial component of non-homogeneous products.<br><sup>d</sup> For the product as a whole.<br><sup>e</sup> Test duration = 30 min.<br><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).<br><sup>g</sup> s1 = Smoke $\leq 750 \text{ } \%$ minutes;<br>s2 = not s1.<br><sup>h</sup> Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack. |                                                  |                                                                                                                                                                                                |                               |



**APPENDIX to Test Report No.: 89221176 013**  
**Bijlage van testrapport nr.:**

Page 7 of 14  
Pagina 7 van 14

Report produced with the Fire Testing Technology FRPSoft software

page 1

## Flooring Radiant Panel Single Specimen Report

|                            |                                     |
|----------------------------|-------------------------------------|
| Standard                   | : EN ISO 9239-1:2010                |
| Laboratory                 | : TÜV Rheinland Nederland B.V.      |
| Sponsor                    | : 89221176-50 Forbo                 |
| Date of test               | : Sep. 27 2022                      |
| Specimen description       | : MT22-221176.13                    |
| Test name                  | : # Prod 1                          |
| File name                  | : D:\FRPFILES\22090004.CSV          |
| Test number in series      | : 4                                 |
| Flux calibration file name | : C:\FRPSOFT2.9A\CALIB\FLX22004.CSV |
| Thickness (mm)             | : 10.1                              |
| Density (kg/m³)            | : 924                               |
| Test duration              | : 30 minutes (1800 s)               |
| Substrate used?            | : Yes                               |
| Substrate                  | : Particle board                    |
| Fixing method              | : none                              |
| Conditioned?               | : Yes                               |
| Conditioning temp. (°C)    | : 23                                |
| Conditioning RH (%)        | : 50                                |

### Test Results

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Time to ignition                        | : 2 minutes 09 seconds (129 s) |
| Time to flameout                        | : 30 minutes (1800 s)          |
| Extent of burning (mm)                  | : 360                          |
| Critical flux at extinguishment (kW/m²) | : 6.26                         |
| HF-10 (kW/m²)                           | : 8.25                         |
| HF-20 (kW/m²)                           | : 6.26                         |
| HF-30 (kW/m²)                           | : 6.26                         |
| Flame spread at 10 minutes (mm)         | : 260                          |
| Flame spread at 20 minutes (mm)         | : 360                          |
| Flame spread at 30 minutes (mm)         | : 360                          |
| Peak light attenuation (%)              | : 54.73                        |
| Time to peak light attenuation          | : 8 minutes 28 seconds (508 s) |
| Total integrated smoke (%.min)          | : 486.27                       |

|                                        |                |
|----------------------------------------|----------------|
| <b>Potential classification</b>        | <b>: C(II)</b> |
| <b>Smoke production classification</b> | <b>: s1</b>    |

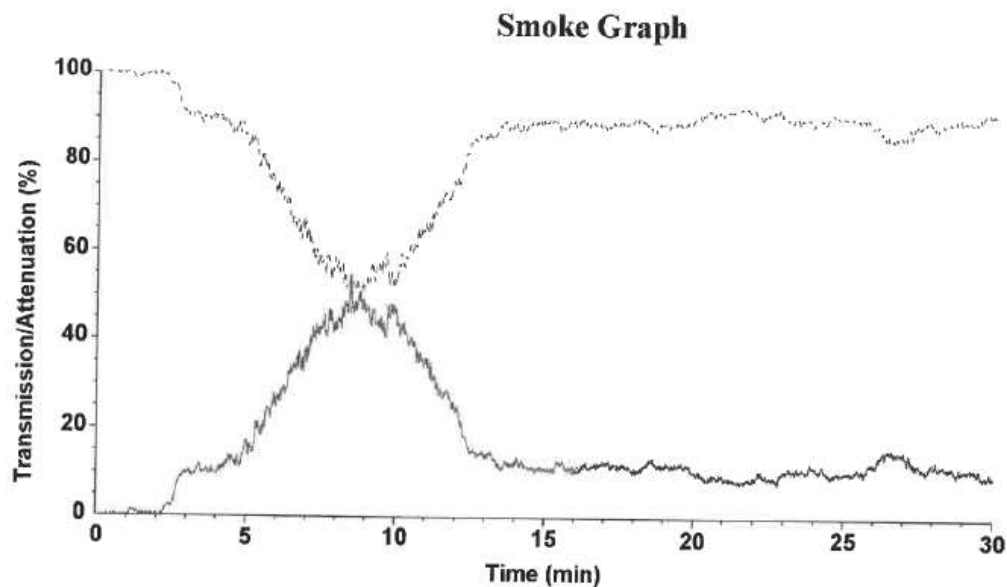
These results relate only to the behaviour of the specimens of the product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

**APPENDIX to Test Report No.: 89221176 013**  
**Bijlage van testraport nr.:**

Page 8 of 14  
Pagina 8 van 14

Report produced with the Fire Testing Technology FRPSoft software

page 2



Test name : # Prod 1  
File name : D:\FRPFILES\22090004.CSV

**Rake Results**

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 246      | 11.1                      | 2.734                    | 510           | -        | 3.7                       | -                        |
| 110           | 333      | 10.5                      | 3.484                    | 560           | -        | 3.1                       | -                        |
| 160           | 414      | 9.9                       | 4.107                    | 610           | -        | 2.6                       | -                        |
| 210           | 501      | 9.3                       | 4.638                    | 660           | -        | 2.3                       | -                        |
| 260           | 607      | 8.2                       | 5.007                    | 710           | -        | 2.0                       | -                        |
| 310           | 812      | 7.3                       | 5.926                    | 760           | -        | 1.7                       | -                        |
| 360           | 1112     | 6.3                       | 6.956                    | 810           | -        | 1.5                       | -                        |
| 410           | -        | 5.3                       | -                        | 860           | -        | 1.4                       | -                        |
| 460           | -        | 4.4                       | -                        | 910           | -        | 1.3                       | -                        |

**Comments**

Specimen was extinguished manually after end of test.

These results relate only to the behaviour of the specimens of the 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.



**APPENDIX to Test Report No.: 89221176 013**  
*Bijlage van testrapport nr.:*

Page 9 of 14  
Pagina 9 van 14

Report produced with the Fire Testing Technology FRPSoft software

page 1

## Flooring Radiant Panel Single Specimen Report

|                              |                                     |
|------------------------------|-------------------------------------|
| Standard                     | : EN ISO 9239-1:2010                |
| Laboratory                   | : TÜV Rheinland Nederland B.V.      |
| Sponsor                      | : 89221176-50 Forbo                 |
| Date of test                 | : Sep. 27 2022                      |
| Specimen description         | : MT22-221176.13                    |
| Test name                    | : # Cross 2                         |
| File name                    | : D:\FRPFILES\22090005.CSV          |
| Test number in series        | : 4                                 |
| Flux calibration file name   | : C:\FRPSOFT2.9A\CALIB\FLX22004.CSV |
| Thickness (mm)               | : 10.1                              |
| Density (kg/m <sup>3</sup> ) | : 924                               |
| Test duration                | : 22 minutes 22 seconds (1342 s)    |
| Substrate used?              | : Yes                               |
| Substrate                    | : Particle board                    |
| Fixing method                | : none                              |
| Conditioned?                 | : Yes                               |
| Conditioning temp. (°C)      | : 23                                |
| Conditioning RH (%)          | : 50                                |

### Test Results

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Time to ignition                                     | : 2 minutes 12 seconds (132 s)                |
| Time to flameout                                     | : 22 minutes 18 seconds (1338 s)              |
| Extent of burning (mm)                               | : 330                                         |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 6.88                                        |
| HF-10 (kW/m <sup>2</sup> )                           | : 8.06                                        |
| HF-20 (kW/m <sup>2</sup> )                           | : 6.88                                        |
| HF-30 (kW/m <sup>2</sup> )                           | : Not calculated (test duration < 30 minutes) |
| Flame spread at 10 minutes (mm)                      | : 270                                         |
| Flame spread at 20 minutes (mm)                      | : 330                                         |
| Flame spread at 30 minutes (mm)                      | : Not measured                                |
| Peak light attenuation (%)                           | : 50.95                                       |
| Time to peak light attenuation                       | : 6 minutes 52 seconds (412 s)                |
| Total integrated smoke (%.min)                       | : 339.58                                      |
| <b>Potential classification</b>                      | <b>: C(f)</b>                                 |
| <b>Smoke production classification</b>               | <b>: s1</b>                                   |

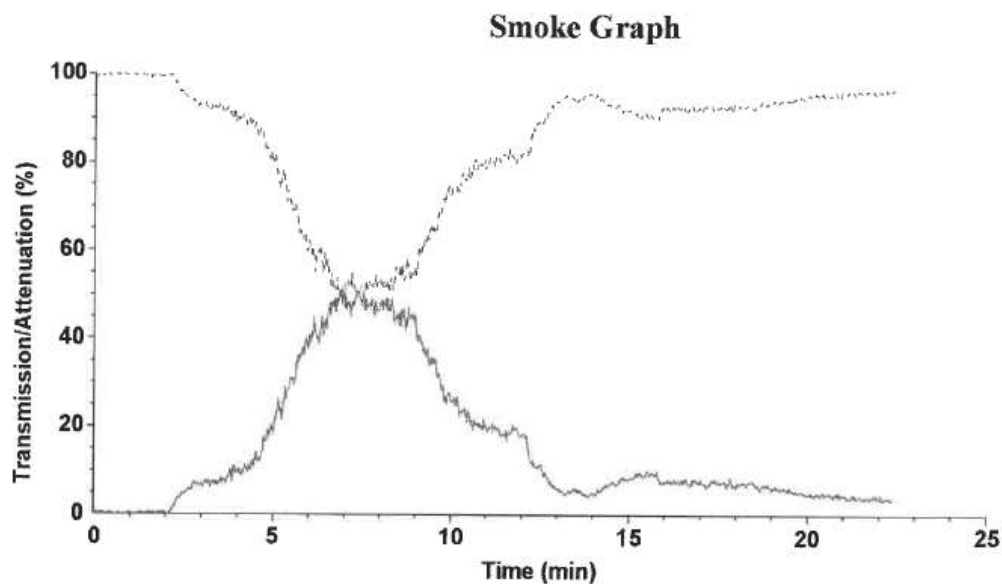
These results relate only to the behaviour of the specimens of the product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

**APPENDIX to Test Report No.: 89221176 013**  
*Bijlage van testrapport nr.:*

Page 10 of 14  
Pagina 10 van 14

Report produced with the Fire Testing Technology FRPSoft software

page 2



Test name : # Cross 2  
File name : D:\FRPFILES\22090005.CSV

**Rake Results**

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 223      | 11.1                      | 2.479                    | 510           | -        | 3.7                       | -                        |
| 110           | 311      | 10.5                      | 3.254                    | 560           | -        | 3.1                       | -                        |
| 160           | 381      | 9.9                       | 3.780                    | 610           | -        | 2.6                       | -                        |
| 210           | 450      | 9.3                       | 4.166                    | 660           | -        | 2.3                       | -                        |
| 260           | 543      | 8.2                       | 4.479                    | 710           | -        | 2.0                       | -                        |
| 310           | 811      | 7.3                       | 5.919                    | 760           | -        | 1.7                       | -                        |
| 360           | -        | 6.3                       | -                        | 810           | -        | 1.5                       | -                        |
| 410           | -        | 5.3                       | -                        | 860           | -        | 1.4                       | -                        |
| 460           | -        | 4.4                       | -                        | 910           | -        | 1.3                       | -                        |

**Comments**

Specimen extinguished naturally.

These results relate only to the behaviour of the specimens of the 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.

**APPENDIX to Test Report No.: 89221176 013**  
*Bijlage van testrapport nr.:*

Page 11 of 14  
Pagina 11 van 14

Report produced with the Fire Testing Technology FRPSoft software

page 1

## Flooring Radiant Panel Single Specimen Report

|                              |                                     |
|------------------------------|-------------------------------------|
| Standard                     | : EN ISO 9239-1:2010                |
| Laboratory                   | : TÜV Rheinland Nederland B.V.      |
| Sponsor                      | : 89221176-50 Forbo                 |
| Date of test                 | : Sep. 27 2022                      |
| Specimen description         | : MT22-221176.13                    |
| Test name                    | : # Prod 3                          |
| File name                    | : D:\FRPFILES\22090006.CSV          |
| Test number in series        | : 4                                 |
| Flux calibration file name   | : C:\FRPSOFT2.9A\CALIB\FLX22004.CSV |
| Thickness (mm)               | : 10.1                              |
| Density (kg/m <sup>3</sup> ) | : 924                               |
| Test duration                | : 28 minutes 37 seconds (1717 s)    |
| Substrate used?              | : Yes                               |
| Substrate                    | : Particle board                    |
| Fixing method                | : none                              |
| Conditioned?                 | : Yes                               |
| Conditioning temp. (°C)      | : 23                                |
| Conditioning RH (%)          | : 50                                |

### Test Results

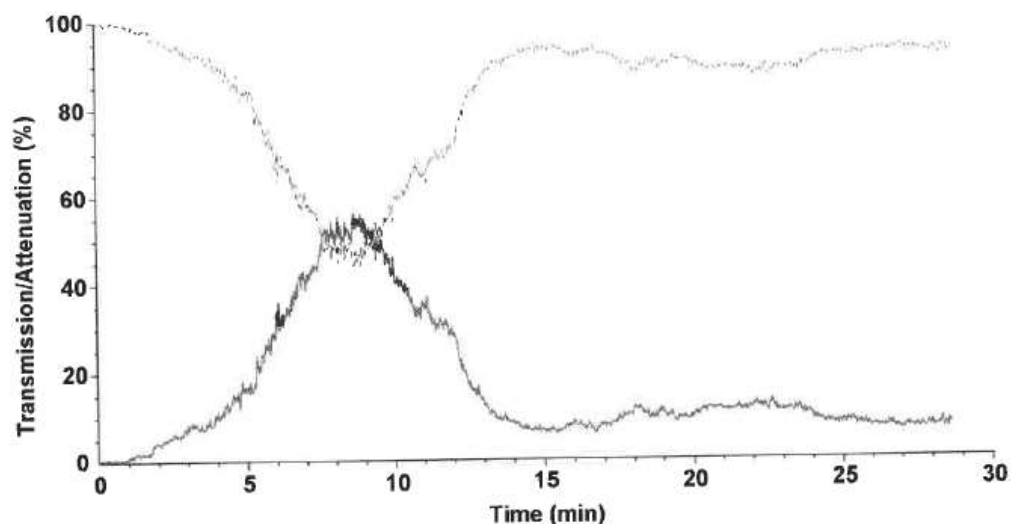
|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Time to ignition                                     | : 2 minutes 09 seconds (129 s)                |
| Time to flameout                                     | : 28 minutes 34 seconds (1714 s)              |
| Extent of burning (mm)                               | : 360                                         |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 6.26                                        |
| HF-10 (kW/m <sup>2</sup> )                           | : 8.25                                        |
| HF-20 (kW/m <sup>2</sup> )                           | : 6.88                                        |
| HF-30 (kW/m <sup>2</sup> )                           | : Not calculated (test duration < 30 minutes) |
| Flame spread at 10 minutes (mm)                      | : 260                                         |
| Flame spread at 20 minutes (mm)                      | : 330                                         |
| Flame spread at 30 minutes (mm)                      | : Not measured                                |
| Peak light attenuation (%)                           | : 55.94                                       |
| Time to peak light attenuation                       | : 8 minutes 37 seconds (517 s)                |
| Total integrated smoke (%.min)                       | : 465.17                                      |
| <b>Potential classification</b>                      | <b>: C(II)</b>                                |
| <b>Smoke production classification</b>               | <b>: s1</b>                                   |

These results relate only to the behaviour of the specimens of the 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.

Report produced with the Fire Testing Technology FRPSoft software

page 2

### Smoke Graph



Test name : # Prod 3  
File name : D:\FRPFILES\22090006.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 226      | 11.1                      | 2.512                    | 510           | -        | 3.7                       | -                        |
| 110           | 323      | 10.5                      | 3.380                    | 560           | -        | 3.1                       | -                        |
| 160           | 403      | 9.9                       | 3.998                    | 610           | -        | 2.6                       | -                        |
| 210           | 501      | 9.3                       | 4.638                    | 660           | -        | 2.3                       | -                        |
| 260           | 591      | 8.2                       | 4.875                    | 710           | -        | 2.0                       | -                        |
| 310           | 800      | 7.3                       | 5.838                    | 760           | -        | 1.7                       | -                        |
| 360           | 1411     | 6.3                       | 8.826                    | 810           | -        | 1.5                       | -                        |
| 410           | -        | 5.3                       | -                        | 860           | -        | 1.4                       | -                        |
| 460           | -        | 4.4                       | -                        | 910           | -        | 1.3                       | -                        |

### Comments

Specimen extinguished naturally.

These results relate only to the behaviour of the specimens of the 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.

**APPENDIX to Test Report No.: 89221176 013**  
*Bijlage van testrapport nr.:*

Page 13 of 14  
Pagina 13 van 14

Report produced with the Fire Testing Technology FRPSoft software

page 1

## Flooring Radiant Panel Single Specimen Report

|                              |                                     |
|------------------------------|-------------------------------------|
| Standard                     | : EN ISO 9239-1:2010                |
| Laboratory                   | : TÜV Rheinland Nederland B.V.      |
| Sponsor                      | : 89221176-50 Forbo                 |
| Date of test                 | : Sep. 27 2022                      |
| Specimen description         | : MT22-221176.13                    |
| Test name                    | : # Prod 4                          |
| File name                    | : D:\FRPFILES\22090007.CSV          |
| Test number in series        | : 4                                 |
| Flux calibration file name   | : C:\FRPSOFT2.9A\CALIB\FLX22004.CSV |
| Thickness (mm)               | : 10.1                              |
| Density (kg/m <sup>3</sup> ) | : 924                               |
| Test duration                | : 21 minutes 39 seconds (1299 s)    |
| Substrate used?              | : Yes                               |
| Substrate                    | : Particle board                    |
| Fixing method                | : none                              |
| Conditioned?                 | : Yes                               |
| Conditioning temp. (°C)      | : 23                                |
| Conditioning RH (%)          | : 50                                |

### Test Results

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Time to ignition                                     | : 2 minutes 08 seconds (128 s)                |
| Time to flameout                                     | : 21 minutes 36 seconds (1296 s)              |
| Extent of burning (mm)                               | : 330                                         |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 6.88                                        |
| HF-10 (kW/m <sup>2</sup> )                           | : 7.68                                        |
| HF-20 (kW/m <sup>2</sup> )                           | : 6.88                                        |
| HF-30 (kW/m <sup>2</sup> )                           | : Not calculated (test duration < 30 minutes) |
| Flame spread at 10 minutes (mm)                      | : 290                                         |
| Flame spread at 20 minutes (mm)                      | : 330                                         |
| Flame spread at 30 minutes (mm)                      | : Not measured                                |
| Peak light attenuation (%)                           | : 57.73                                       |
| Time to peak light attenuation                       | : 7 minutes 17 seconds (437 s)                |
| Total integrated smoke (%.min)                       | : 339.94                                      |

|                                        |               |
|----------------------------------------|---------------|
| <b>Potential classification</b>        | <b>: C(f)</b> |
| <b>Smoke production classification</b> | <b>: s1</b>   |

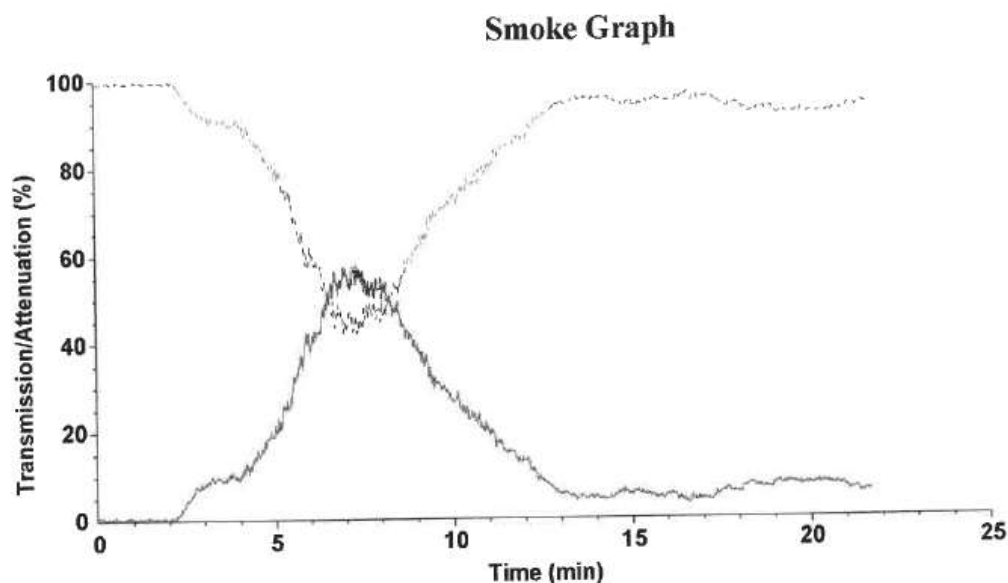
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**APPENDIX to Test Report No.: 89221176 013**  
*Bijlage van testrapport nr.:*

Page 14 of 14  
Pagina 14 van 14

Report produced with the Fire Testing Technology FRPSoft software

page 2



Test name : # Prod 4  
File name : D:\FRPFILES\22090007.CSV

**Rake Results**

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 218      | 11.1                      | 2.423                    | 510           | -        | 3.7                       | -                        |
| 110           | 299      | 10.5                      | 3.128                    | 560           | -        | 3.1                       | -                        |
| 160           | 356      | 9.9                       | 3.532                    | 610           | -        | 2.6                       | -                        |
| 210           | 414      | 9.3                       | 3.833                    | 660           | -        | 2.3                       | -                        |
| 260           | 511      | 8.2                       | 4.215                    | 710           | -        | 2.0                       | -                        |
| 310           | 727      | 7.3                       | 5.306                    | 760           | -        | 1.7                       | -                        |
| 360           | -        | 6.3                       | -                        | 810           | -        | 1.5                       | -                        |
| 410           | -        | 5.3                       | -                        | 860           | -        | 1.4                       | -                        |
| 460           | -        | 4.4                       | -                        | 910           | -        | 1.3                       | -                        |

**Comments**

Specimen extinguished naturally.

These results relate only to the behaviour of the specimens of the 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.