

United Arab Emirates  
Ministry of interior  
Civil Defense G.H.Q  
Fire International Lab & House  
Of Expertise & Training Center  
Approval Committee



دولة الإمارات العربية المتحدة  
وزارة الداخلية  
القيادة العامة للدفاع المدني  
لجنة اعتماد المختبرات العالمية  
وبيوت الخبرة ومعاهد التدريب

CoC Issue Date : 18/07/2024  
CoC Expiry Date: 17/07/2025

ESL-24-11661 Issue 01

## CERTIFICATE OF COMPLIANCE

| This certificate of compliance validates the following                     |                                                                 |                                |                                                                                                                                                          |
|----------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TEST REPORT<br/>NUMBER</b> 'Assessment<br>Reports' are not acceptable   | a) 24/32301626-1<br>b) 24/32301626-2<br>c) 0449-24              | <b>CERTIFICATE<br/>NUMBER</b>  | ESL-24-11661                                                                                                                                             |
| <b>DATE OF ISSUE</b>                                                       | a) 26-02-2024<br>b) 26-02-2024<br>c) 15-07-2024 (indicative)    | <b>DATE OF ISSUE</b>           | 18/07/2024                                                                                                                                               |
| <b>DATE OF EXPIRY</b>                                                      | N/A                                                             | <b>DATE OF EXPIRY</b>          | 17/07/2027                                                                                                                                               |
| Manufacturer Details                                                       |                                                                 |                                |                                                                                                                                                          |
| <b>NAME OF FACTORY/<br/>MANUFACTURER</b>                                   | Effisus Building Materials<br>Trading One Person Company<br>LLC | <b>NAME OF THE<br/>BRAND</b>   | Effisus                                                                                                                                                  |
| <b>FACTORY ADDRESS /<br/>REGION</b><br>(STREET / TOWN / CITY /<br>COUNTRY) | Confidential                                                    | <b>MODEL / NO</b>              | Effisus ProFlex FR –<br>Weatherproofing Membrane<br>System                                                                                               |
| <b>WEBSITE</b>                                                             | <a href="http://www.effisus.com">www.effisus.com</a>            | <b>LOGO ON THE<br/>PRODUCT</b> | <br><b>EFFISIIS</b><br><small>Excellence in Weatherproofing</small> |
| <b>TEL</b>                                                                 | +971 4 401 8533                                                 | <b>EMAIL</b>                   | <a href="mailto:ricardoteixeira@effisus.com">ricardoteixeira@effisus.com</a>                                                                             |





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| Product Details from Test Report                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reference<br>Test Report<br>page NO                         |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>DESCRIPTION OF THE PRODUCT</b><br>(TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC) | <b>Effisus ProFlex FR Membrane</b> is a multi-layered weatherproofing membrane with a fire-retardant polymer and ultra-elastic reinforced core. It consists of three fire layers with specific densities and orientations. Fixing accessories include Effisus 2Bond DS (fixing tape) and Effisus Bonding KFP (fixing adhesive).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24/32301626-1<br>24/32301626-2<br><br>Page no: 4            |
| <b>TEST STANDARD</b><br>(SUCH AS ASTM/BS EN/ DN ETC)                                                                                         | <b>EN 13501-1:2018</b> Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests<br><br>➤ <b>EN ISO 11925-2:2020</b> – Reaction to fire tests – ignitability of products subjected to direct impingement of products subjected to direct impingement of flame – part 2: Single-flame source test.<br><br>➤ <b>EN 13823:2020+A1:2022</b> Reaction to fire tests for building products. Building products, excluding floorings exposed to the thermal attack by a single burning item.                                                                                                                                                                                                                                                                                                                                                                                                            | 24/32301626-1<br>24/32301626-2<br>0449-24<br><br>Page no: 1 |
| <b>TEST DESCRIPTION</b>                                                                                                                      | To determine the fire reaction behaviour of the construction products when these are exposed to the thermal attack of a single burning item. The product is tested while installed on a sample support positioned at an angle. Each sample consists of two wings: one 1500 mm x 495 mm-short wing, and one 1500 mm x 1000 mm-long wing, by the thickness of the product. The assembly and installation of the product on the support must be representative of the final use condition of such product.<br><br>A minimum of three samples per test are tested for each condition of use. The product is exposed to the flames for approximately 21 minutes. The relevant measurements are continuously recorded every three seconds.<br><br>The sample is exposed to the flame of a propane burner with a nominal power of (30,7 +/- 2) kW. The burner is located on the base of the angle formed by the corner, at a distance of 40 mm from the surface of the product. | 24/32301626-1<br>24/32301626-2                              |





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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <p><b>SPECIFICATION OF TEST SPECIMEN</b></p> | <p>Effisus ProFlex FR weatherproofing membrane system includes:</p> <ul style="list-style-type: none"> <li>• Effisus ProFlex FR weatherproofing membrane,</li> <li>• Effisus 2Bond DS (Fixing Tape),</li> <li>• Effisus Bonding KFP (Fixing Adhesive).</li> </ul> <p><b>Effisus ProFlex FR Membrane:</b> The membrane is a multi-layered weatherproofing membrane composed of a double-side fire retardant polymer and fire retardant ultra-elastic reinforced core. This high-tech composite membrane was developed by an innovative bulk-forming process to efficiently control water, air-water vapour and moisture while accommodating differential movements along with fire performance.</p> <p>The product is made of 3 layers:</p> <p><b>Layer 1:</b> A fire-rated coating with a superficial density of 0,35 kg/m<sup>2</sup>, white colour, smooth appearance and external orientability.</p> <p><b>Layer 2:</b> A fire-rated mesh with a superficial density of 0,35 kg/m<sup>2</sup>, white colour, smooth appearance and internal orientability.</p> <p><b>Layer 3:</b> A fire-rated coating with a superficial density of 0,35 kg/m<sup>2</sup>, white colour, smooth appearance and external orientability.</p> <p><b>Fixing Effisus accessories:</b></p> <p><b>-Accessory 1:</b> Effisus 2Bond DS (Fixing Tape), thickness of 1.54 mm, density of 1100 kg/m<sup>3</sup> and superficial density of 26.90 g/m<sup>2</sup> and grey colour.</p> <p><b>-Accessory 2:</b> Effisus Bonding KFP (Fixing Adhesive), density of 1200 kg/m<sup>3</sup> and superficial density of 147 g/m<sup>2</sup> and black colour</p> | <p>24/32301626-1<br/>24/32301626-2</p> |
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# TEST RESULT

(SUCH AS PASSED CRITERIA\_\_\_/  
COMPLIED TO\_\_\_/  
DURATION\_\_\_OBSERVATION\_\_\_/ETC)

| Test Mode             | RESULTS - Effisus ProFlex FR Membrane             |          |                    |            |
|-----------------------|---------------------------------------------------|----------|--------------------|------------|
|                       | CRITERIA CLASS B                                  | Nº TESTS | AVERAGE            | COMPLIANCE |
| EN ISO 11925-2:2020   | $F_{p,2} \leq 150$ mm within 60 s                 | 12       | $F_{p,2} < 150$ mm | YES        |
| EN 13823:2020+A1:2022 | $FIGRA_{600s} \leq 120$ W/s                       | 3        | 77,07              | YES        |
|                       | LFS < edge of the sample                          | 3        | <to edge           | YES        |
|                       | $THR_{600s} \leq 7,5$ MJ                          | 3        | 3,93               | YES        |
|                       | CRITERIA subclass 's1'                            | Nº TESTS | AVERAGE            | COMPLIANCE |
|                       | $SMOGRA \leq 30$ m <sup>2</sup> /s <sup>2</sup>   | 3        | 170,33             | NO         |
|                       | $TSP_{600s} \leq 50$ m <sup>2</sup>               | 3        | 418,00             | NO         |
|                       | CRITERIA subclass 's2'                            | Nº TESTS | AVERAGE            | COMPLIANCE |
|                       | $SMOGRA \leq 180$ m <sup>2</sup> /s <sup>2</sup>  | 3        | 170,33             | YES        |
|                       | $TSP_{600s} \leq 200$ m <sup>2</sup>              | 3        | 418,00             | NO         |
|                       | CRITERIA subclass 'd0'                            | Nº TESTS | AVERAGE            | COMPLIANCE |
|                       | Fall of droplets/particles in flames within 600 s | 3        | NO                 | YES        |

24/32301626-1  
24/32301626-2

The product, Effisus ProFlex FR, related to its fire reaction behaviour, is classified as:

| Product Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test Standards  | Result                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------|
| <p>Effisus ProFlex FR weatherproofing membrane system includes:</p> <ul style="list-style-type: none"> <li>➤ Effisus ProFlex FR weatherproofing membrane,</li> <li>➤ Effisus 2Bond DS (Fixing Tape),</li> <li>➤ Effisus Bonding KFP (Fixing Adhesive).</li> </ul> <p>Effisus ProFlex FR weatherproofing membrane is a three-layer membrane (polymer coating, polyester mesh, polymer coating) with a thickness of 1.00 mm and a surface density of 1105 g/m<sup>2</sup>.</p> <p>Effisus 2Bond DS is a double-sided adhesive and grey sealant tape with a thickness of 1.54 mm and a density of 1100 kg/m<sup>3</sup>.</p> <p>Effisus Bonding KFP is a single-component adhesive/sealant based on PDMS polymer, with a 1200 kg/m<sup>3</sup> density and black in colour.</p> | EN 13501-1:2018 | <p>Reaction to fire classification:</p> <p><b>B-s3,d0</b></p> |





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**PRODUCT APPLICATION  
GUIDELINE  
(END USE)**

(CLEARLY STATE THE END USE WITH  
SPECIFIC APPLICATION, SUCH AS  
EXACT FIRE RATING/TO BE INSTALLED  
IN \_\_\_/TO BE INSTALLED AT \_\_\_/TO BE  
CONNECTED WITH \_\_\_/TO BE  
INSTALLED WITH \_\_\_ ETC ALONG WITH  
ANY WARNINGS SUCH AS NOT TO BE  
USED IN \_\_\_/NOT TO BE INSTALLED  
AT \_\_\_/NOT TO BE INSTALLED  
WITH \_\_\_ ETC.

The membrane system is suitable for use as an external waterproofing membrane as outlined in the 2018 Edition of the UAE Fire & Life Safety Code of Practice, specifically in Chapter 1, Section 7.1.45. Additionally, it can serve as an internal wall finish (waterproof coating) in accordance with UAE Fire & Life Safety Code of Practice, 2018 Edition, detailed in Chapter 1, Section 7.1.4.

**Limitations:**

1. This certification is limited to the *Effisus ProFlex FR Weatherproofing membrane system* and does not provide the performance of individual components.
2. This certificate covers the specific documented composition of the product as tested. Variation in the formulation is not allowed.
3. This certificate applies solely to the specified components specification as stated above. Any deviation in the components is not included within the scope of this certificate.
4. The certification assesses the product's reaction to fire classification. It does not evaluate the product's performance against weather conditions, fire resistance properties, or its behaviour in large-scale fire scenarios.

Not Applicable





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| Laboratory and Certification Body Details                                                                              |                                                                                         |                                                                                                                |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| NAME OF CERTIFICATION BODY                                                                                             | Emirates Safety Laboratory                                                              | NAME OF TEST FACILITY                                                                                          | Applus-LGAI Technological Center S.A.                                           |
| CERTIFICATION BODY ADDRESS / REGION<br>(STREET / TOWN / CITY / COUNTRY)                                                | 240 Al Awir Road, Warsan 3, Mushraif, Dubai, United Arab Emirates                       | TEST FACILITY ADDRESS / REGION<br>(STREET / TOWN / CITY / COUNTRY)                                             | Campus UAB- Ronda de la Font Del Carme s/n E-08193 Bellaterra, Barcelona, Spain |
| WEBSITE                                                                                                                | <a href="https://eslglobal.com">https://eslglobal.com</a>                               | WEBSITE                                                                                                        | <a href="http://www.applus.com">www.applus.com</a>                              |
| TEL                                                                                                                    | +971 4 520 1800                                                                         | TEL                                                                                                            | +34 93 567 20 00                                                                |
| EMAIL                                                                                                                  | <a href="mailto:ask@eslglobal.com">ask@eslglobal.com</a>                                | EMAIL                                                                                                          | <a href="mailto:info@appluslaboratories.com">info@appluslaboratories.com</a>    |
| ACCREDITED BY<br>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE) | GCC Accreditation Centre (GAC)<br><a href="https://gac.org.sa/">https://gac.org.sa/</a> | ACCREDITED BY<br>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE) | ENAC                                                                            |
| AS PER<br>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)                                                  | ISO/IEC 17065                                                                           | AS PER<br>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)                                               | EN ISO/IEC 17025                                                                |
| VALIDITY<br>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)                                                          | 03/09/2026                                                                              | VALIDITY<br>(EXPIRY DATE OF LABORATORY ACCREDITATION)                                                          | Unlimited                                                                       |
| REFERENCE NUMBER:<br>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)         | APC 0097                                                                                | REFERENCE NUMBER:<br>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)     | 9/LE895                                                                         |
| CERTIFICATION MARK                                                                                                     |      |                                                                                                                |                                                                                 |





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| (ENDORSEMENT) TO BE SIGNED BY MANUFACTURER                                         |                                                                              |                       |                                          |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------|------------------------------------------|
| NAME OF MANUFACTURER'S SIGNATORY                                                   | Mr. Ricardo Teixeira                                                         | SIGNATURE             |                                          |
| EMAIL / TEL                                                                        | <a href="mailto:ricardoteixeira@effisus.com">ricardoteixeira@effisus.com</a> | FACTORY OFFICIAL SEAL | <br>Up-Way Systems, Lda.<br>Dpt. Técnico |
| NOTES: I Undertake that all data and information provided are genuine and accurate |                                                                              |                       |                                          |

| (ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY                                   |                                                                             |                                  |                    |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|--------------------|
| NAME OF CERTIFICATION BODY SIGNATORY                                               | Tomasz Kielbasa                                                             | SIGNATURE                        |                    |
| EMAIL / TEL                                                                        | <a href="mailto:ask@eslglobal.com">ask@eslglobal.com</a><br>+971 4 520 1800 | CERTIFICATION BODY OFFICIAL SEAL | <br>Dubai - U.A.E. |
| NOTES: I Undertake that all data and information provided are genuine and accurate |                                                                             |                                  |                    |

**ATTACHMENTS:**

- COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)