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**CLASSIFICATION**

***Samenvatting***

*Volledige rapportage opvraagbaar - Kingspan Unidek*

# CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

| | |
|---|---|
| Classification no. | 2021-Efectis-R000509[Rev.6] |
| Sponsor | Kingspan Unidek BV<br>Schieweg 26<br>5420 AC GEMERT<br>THE NETHERLANDS |
| Product name | **Unidek Aero - Unidek Aero Comfort – Unidek Aero Confort**<br><br>**Unidek Aero MB - Unidek Aero comfort MB - Unidek Aero Confort MB**<br><br>**Unidek Aero Light**<br>**Unidek Aero Plus** |
| Prepared by | Efectis Nederland BV |
| Notified body no. | 1234 |
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| Project number | ENL-21-000304<br>ENL-21-000506<br>ENL-23-000754<br>ENL-24-000123<br>ENL-24-000984 |
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### 3.3.3 SBI test results report 2024-Efectis-R000392

| Test method and test number | Parameter | No. tests | Results | |
|---|---|---|---|---|
| | | | Continuous parameter – mean (m) | Compliance with parameters |
| **EN 13823** | | | | |
| Aero standard with BASF 5200 | $FIGRA_{0.2MJ}$ [W/s] | 5 | 109 | - |
| | $FIGRA_{0.4MJ}$ [W/s] | | 109 | - |
| | $THR_{600s}$ [MJ] | | 7.7 | - |
| | LFS < edge | | - | Compliant |
| | SMOGRA [$m^2/s^2$] | | 3.0 | - |
| | $TSP_{600s}$ [$m^2$] | | 41 | - |
| | Flaming debris<br>- flaming ≤ 10 s<br>- flaming > 10 s | | -<br>- | Compliant<br>Compliant |

## 3.4 CLASSIFICATION CRITERIA

| **Fire classification of construction products and building elements**<br>Excluding floorings and linear pipe thermal insulation products | | | |
|---|---|---|---|
| **Classification criteria** | | | |
| Class<br>Test method(s) | **B** | **C** | **D** |
| **EN ISO 11925-2**<br>Exposure = 30 s | $F_s$ ≤ 150 mm within 60 s<br>Ignition of the paper in EN ISO 11925-2 results in a d2 classification. | | |
| **EN 13823** | $FIGRA_{0.2\ MJ}$ ≤ 120 W/s<br>LFS < edge of specimen<br>$THR_{600s}$ ≤ 7.5 MJ | $FIGRA_{0.4\ MJ}$ ≤ 250 W/s<br>LFS < edge of specimen<br>$THR_{600s}$ ≤ 15 MJ | $FIGRA_{0.4\ MJ}$ ≤ 750 W/s |
| **Additional classification** | | | |
| Smoke production | **s1** = SMOGRA ≤ 30 $m^2/s^2$ and $TSP_{600s}$ ≤ 50 $m^2$ ;<br>**s2** = SMOGRA ≤ 180 $m^2/s^2$ and $TSP_{600s}$ ≤ 200 $m^2$;<br>**s3** = not s1 or s2 | | |
| Flaming Droplets/particles | **d0** = no flaming droplets/ particles in EN 13823 within 600 s;<br>**d1** = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;<br>**d2** = not d0 or d1. | | |

# 4. CLASSIFICATION AND FIELD OF APPLICATION

## 4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

## 4.2 CLASSIFICATION

The product, **Unidek Aero - Unidek Aero Comfort- Unidek Aero Confort, Unidek Aero MB - Unidek Aero comfort MB - Unidek Aero Confort MB, Unidek Aero Light, Unidek Aero Plus**, in relation to its reaction to fire behaviour is classified:

**C**

The additional classification in relation to smoke production is:

**s2**

The additional classification in relation to flaming droplets / particles is:

**d0**

**Reaction to fire classification: C– s2, d0**