

Laboratory for Fire Safety

Summary of the reaction to fire performance:

Fiberdeck WEO35/WEO60 WPC cladding

On behalf of Felix Clercx B.V., an investigation of the reaction to fire properties of Fiberdeck WEO35/WEO60 WPC cladding was performed, resulting in a reaction to fire classification in accordance with the procedures described in EN 13501-1:2018.

Classification into the envisaged class D requires testing according to EN 13823 and EN-ISO 11925-2 and these tests were performed in the Peutz Laboratory for Fire Safety in accordance with the European test standard EN-ISO 11925-2:2010 and EN 13823:2020+A1:2022.

This summary provides the reaction to fire performance and a brief description of the tested product. For a complete description of the product, reference is made to the classification report mentioned in the footnote including reference to the test reports.

Fiberdeck WEO35/WEO60 cladding

The product is a wood plastic composite with intended application as interior and exterior closed cladding.



Teak Cedar Ipe Dark Grey



WEO35



WEO60

Reaction to fire testing

In order to determinate the reaction to fire performance of Fiberdeck WEO35/WEO60 WPC cladding, two studies were carried out. Firstly, an SBI study (described in EN 13823) was carried out and secondly, an ignitability or Small Flame study was carried out (EN-ISO 11925-2). These investigations were carried out in the Peutz Laboratory for Fire Safety. Based on the results of the ignitability test (Small flame test) and the values determined in the SBI test for the fire growth rate ($FIGRA_{0,4M}$), the reaction to fire class was determined. The classification of the smoke production was determined on the basis of the total smoke production (TSP_{600s}) and smoke growth rate (SMOGR). The occurrence of flaming droplets is determined on the basis of visual observations during the SBI test and ignitability test.

Extended application

In order to determine the influence of the parameter 'colour', an extended application report has been drawn up according to EN 15725:2023.

Summary	Reference	Page	Initials
This summary consists of 2 pages. The classification reports that form the basis for this summary are available for inspection at the client and are registered as Y 2826-6E-002 dated November 8, 2024	JN/JN /Y 2826-7E-VS-001 November 11, 2024	1/2	

Classification of the reaction to fire performance

Based on the results of the tests carried out in accordance with EN 13823 and EN-ISO 11925-2, a classification in accordance with EN 13501-1:2018 has been drawn up and the Fiberdeck WEO35/WEO60 WPC cladding has been classified as follows:

The product, WEO35/WEO60 WPC cladding colour Ipe in a vertical orientation:

Reaction to fire classification: D-s1, d0

The product, WEO60 WPC cladding colour Ipe in a horizontal orientation:

Reaction to fire classification: D-s2, d0

The product, WEO35/WEO60 WPC cladding colours Teak, Cedar and Dark Grey in a vertical orientation and WEO60 WPC cladding colours Teak, Cedar and Dark Grey in a horizontal orientation:

Reaction to fire classification: D-s3, d0

The classification is only valid for the product Fiberdeck WEO35/WEO60 WPC cladding to be used for interior or exterior closed cladding. Differences may lead to a different reaction to fire classification.

The classification is valid for the following product parameters:

- Thickness 33 mm and width 169 mm
- Volumetric mass 415 kg/m³ and surface mass 15.2-15.3 kg/m²

The classification is valid for the following end-use applications:

- Applied to any substrate of at least reaction to fire classification A2-s1,d0 with a thickness of at least 9 mm and having a density of $\geq 653 \text{ kg/m}^3$, excluding paper-faced gypsum plasterboard.
- Against the substrate with horizontal c.t.c. 48 cm and vertical c.t.c. 46 cm spruce battens (18 mm x 44 mm) fire retardant treated with Flame Delay PT (B-s2,d0) and coated with 180 g/m² Colorseen TimberStain HT colour ebony
- 1 screw $\varnothing 3.8 \text{ mm} \times 25 \text{ mm}$ per fixing point, ventilated air gap 36 mm, no joints

Limitations

This summary report has been drafted at the request of the client. Whilst the test data provided within this short report was obtained in a test conducted fully in accordance with the standards EN 13823, EN-ISO 11925 and the classification was drawn up fully in accordance with EN 13501-1, the presentation of the results in this report may not satisfy the requirements of these standards. The presentation of the results in this manner is made by agreement with the sponsor and use of the information herein for product assessment, approval or certification purposes is restricted.

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