TECHNICAL ASSESSMENT
2017-A-021 - Rev. 1
based on an analysis of test results

SPONSOR

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SUBJECT

Evaluation of the reaction to fire according to the European Standard EN 13501-1:2018 of a floor covering.

This document has been drawn up as part of an analysis of test results as described in Annex 1, in point 3.2 2° a) 2) of the RD of 07/07/1994 (coordinated version of 20/05/2022).

1. TEST REPORTS

1.1. Reports

Name of the laboratory	Number of the test report	Date of the test report	Owner of the test report	Test standard
WFRGENT	15786A	19/12/2012	Muylle Facon nv	EN ISO 11925-2:2010
	15786B	19/12/2012		EN ISO 9239-1:2010

1.2. Description of the tested elements

Test report No. 15786A gives the description and the results of a reaction to fire test carried out according to the European standard EN ISO 11925-2:2010 on a multilayered parquet with surface coating. The parquet was composed of a base layer of birch multiply (thickness: approx. 14 mm; nominal density: 700 kg/m³), glued to a top layer of solid oak (thickness: approx. 5 mm; nominal density: 750 kg/m³) and finished with one layer of RMC FR base (approx. 35 g/m² was applied) and a top coating of RMC FR oil (approx. 16 g/m² was applied). The flame was applied during 15 seconds on the centerline of the specimen, 40 mm above the bottom edge.

Test report No. 15786B gives the description and the results of a reaction to fire test carried out according to the European standard EN ISO 9239-1:2010 on a multilayered parquet, composed as described in Test Report No. 15786A. The substrate used for this test was fiber cement (thickness: approx. 16 mm; density: 1800 kg/m³). After the determination of the worst case (lengthwise vs. crosswise samples), the two additional tests were performed on the lengthwise samples, with one lateral joint in the middle of the specimen.

2. RESULTS

The results obtained during the above-mentioned tests are given in the tables below:

Test report No.	**15786A**	
Parameter	Compliance parameter	
	Result	Criteria for Class B_{fl}-s1
Fs ≤ 150 mm	Yes	Yes
Ignition filter paper	No	No
The material did not melt nor pull away from the pilot burner.		

Test report No.	**15786B**	
Parameter	Continuous parameter	
	Result (mean)	Criteria for Class B_{fl}-s1
Critical flux (kW/m²)	8.2	≥ 8.0
Smoke attenuation (% min)	3	≤ 750

3. FIELD OF APPLICATION

Based on the results mentioned in § 2we are of the opinion that the **reaction to fire** of a floor covering, composed as described below, will not be inferior to **B_{fl}-s1** according to the European Standard EN 13501-1:2018:

- solid oak (thickness: min. 9 mm; nominal density: 750 kg/m³), with or without joints length- or crosswise;
- the solid oak is coated with two finishing layers as follows:
  - the first surface finish is RMC FR Base, applied by means of a roller (min. 35 g/m² +/- 5 g/m²);
  - the second surface finish is RMC FR Oil, applied by means of a roller (min. 16 g/m² +/- 2 g/m²) and subsequently brushed;
- loosely placed;
- without void;
- substrate: Euroclass A2- s1, d0 or better with a nominal thickness of at least 6 mm and a nominal density of at least 1350 kg/m³.

4. CONDITIONS FOR THE USE OF THE PRESENT ASSESSMENT

The present assessment is only valid insofar as the stability of the construction, composed as described in § 3, is guaranteed under normal conditions according to the standards in force.

If a classification of a construction element is mentioned in this assessment, this classification must be demonstrated by means of a document as described in Annex 1, in point 3.2 2° a) 2) of the RD of 07/07/1994 (coordinated version of 20/05/2022).

This assessment is only valid insofar as the composition of the products has not been modified with respect to that of the products subjected to the above-referenced tests.

This assessment is only valid in combination with the above-referenced tests reports. These tests reports can be consulted by request to the sponsor of these tests.

This technical assessment cannot be combined with another technical assessment, except when mentioned explicitly.

This assessment is issued on the basis of test data and information handed over at the time of the demand by the sponsor. If contradictory evidence becomes available afterwards, the assessment will be unconditionally withdrawn and the sponsor will be notified of this.

The duration of validity of the present assessment is limited to 5 years starting from the issuing date of this assessment, unless a revision of this assessment is drawn up or the relevant standard or legislation is modified before that date. The assessment might be extended after an evaluation.

The sponsor has the right to use the above-referenced test reports and has also confirmed that he has not been informed about any non-public information which could influence this assessment, and in consequence the obtained conclusions.

If the sponsor is informed afterwards about such information, he agrees to withdraw the assessment above and its use for regulated purposes – if applicable.

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This technical assessment may be used only literally and completely for publications. For publications of certain texts, in which this technical assessment is mentioned, the permission of ISIB must be obtained in advance.

The present assessment replaces Technical Assessment 2017-A-021.

The present assessment contains 5 pages.

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