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TEST REPORT 19-0807-02

Supplement to test report 19-0807-01 from 20/08/2019

Samples received :

Name	***Date of receipt***
Green Plank Smart Decking	31/07/2019

Aim of the test :

Determination of the fire behaviour

Test conditions :

Small flame test

Standard:	**ISO 11925-2 (2010 + AC 2011)***
Method:	The use surface of a vertically put specimen placed (loose laid) on aluminium beams (according to EN 13238) is ignited by a propane gas flame. Under condition of a surface flame attack with 15 s exposure time, there shall be no flame spread in excess of 150 mm vertically from the point of the test flame within 20 s from the time application. If the boundary line is not reached within 20 s, the sample meets the requirements for the class E_{fl}.
Number of tests:	3 lengthwise and 3 crosswise
Conditioning samples:	23 ± 2 °C and 50 ± 5 % R.H.

Fire Behaviour

Standard:	**EN ISO 9239-1 (2010)***
Method:	Before the test the samples are **not cleaned**. A floorcovering is put on **(loose laid)** aluminium beams (according to EN 13238). During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from which the critical radiant flux is deduced using a calibration curve.
Number of tests:	4
Conditioning samples:	23 ± 2 °C and 50 ± 5 % R.H.

The tests were finished in week 31/2019.

OBTAINED RESULTS

Green Plank Smart Decking

Small flame test

Ignition time : 15 s

Lengthwise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	-	-	no
2	-	-	no
3	-	-	no

Crosswise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	-	-	no
2	-	-	no
3	-	-	no

Fire behaviour

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	10	50	50	30	
Flame spread after 20 min (mm)	20	50	50	30	
Flame spread after 30 min (mm)	20	50	50	30	
Flame spread at extinction (mm)	20	50	50	30	
Flame time	13min 57s	13min 15s	13min 21s	12min 48s	
Critical heat flux CHF at extinction (kW/m²)	11.1	11.0	11.0	11.1	≥11
Total smoke production at end of test (%.min)	39	45	11	14	23

i.o. Stijn Rambour
Didier Van Daele
Head of Floor covering and Fire Tests

Prof. Dr. Paul KIEKENS, dr. h. c.
Director

ENCLOSURE TO REPORT 19-0807-02

Classification according to EN 13501-1

Warning: this statement cannot be used for CE labelling purposes

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)	CLASS
B_{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m²	**X**
C_{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m²	
D_{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m²	
E_{fl}	Fs ≤ 150 mm in 20 s	No demand	
F_{fl}	No demand	No demand	

Additional classification smoke development

		CLASS
Smoke development ≤ 750%.min	s1	**X**
Smoke development > 750%.min	s2	