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TEST REPORT 15-237

Samples received :

Coretec Plus - Stratum
Received on 13/03/2015

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 together with an underlay on an eflex plate (loose laid) 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
Measurement uncertainty:	The relative reproducibility for 3 repetitions is 27.2% for the burning time.
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) a fibre cement board. 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
Measurement uncertainty:	The relative reproducibility for 3 repetitions is 15.6% for the flux, 84.5% for the smoke development.
Conditioning samples:	23 ± 2 °C and 50 ± 5 % R.H.

The tests were performed in week 13-14/2015.

OBTAINED RESULTS

Small flame test

Ignition time : 15 s

Lengthwise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	15	-	no
2	16	-	no
3	15	-	no

Crosswise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	15	-	no
2	15	-	no
3	15	-	no

Fire behaviour

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	200	210	180	200	
Flame spread after 20 min (mm)	200	210	180	200	
Flame spread after 30 min (mm)	200	210	180	200	
Flame spread at extinction (mm)	200	210	180	200	
Flame time	14min 33s	17min 51s	13min 15s	25min 18s	
Heat flux at 30min (kW/m²)	9.4	9.2	9.7	9.4	9.4
Total smoke production at end of test (%.min)	341	324	322	390	345

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Head of Department

ENCLOSURE TO REPORT 15-237

Classification according to EN 13501 –1 (2007 + A1: 2009)*

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 according to EN 13501-1 (2007 + A1:2009)*

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