## **SBI Test Report**

Laboratory name	MeKA Testing laboratory
Operator	Edgars Buksans
Filename	C:\SBICALC\Data\2602\2602-1-1.csv
Report identification	2602-1-1
Product identification	Fire retardant paint RF 710 treated spruce wood

Test	Pre-test conditions	Specimen conditioning
Standard used   EN 13823:2010     Date of test   25/10/2017     Date of report   25/10/2017     E'   17.2 MJ/m³	Baseline duct temperature292.8Ambient temperature292.0Ambient pressure102.9Relative humidity32%	
Apparatus specificationskt0.88kp1.08Duct diameter0.315 mO2 calibration delay time12 sCO2 calibration delay time9 s	Baseline conditionsBaseline ambient oxygen20.79Baseline oxygen20.94Baseline carbon dioxide0.044Baseline smoke99.98	RH 50% 8% 8% 4%
Specimen informationThickness18 mmDensity18Surface mass/area5Specimen number1Date of arrival13/10/2017	Joints standard Fixed to substrate? Yes Fixing method screw Substrate 40x40 m Manufacturer	n EN 13823:2010 horizontal wood studs and calcium silicate backingboard atings LLC
Oxygen 20.948% 20.950%	Change Bur 0.002% Bur	r <b>ner details</b> ner HRR 30.563 kW ner HRR std. dev. 0.690 kW ner CO2/O2 ratio 0.599
	0.004 Bur Bur Bur	ner SPR 0.032 m <sup>2</sup> /s ner SPR std. dev. 0.003 m <sup>2</sup> /s ner response time 12 s
Duct temp. dropped by 2.5 K from baseline of 315.68 K at 306 s Oxygen rose by 0.05% from baseline of 20.679% at 306 sMinimum duct flow Maximum duct flow 0.657 m³/s No T/C failure0.503 m³/s 0.657 m³/s		
Classification results	Classification observations	Potential classification
FIGRA(0.2) 146.6 W/s at 1500 s   FIGRA(0.4) 146.6 W/s at 1500 s   THR(600) 4.7 MJ   SMOGRA 28.3 m²/s² at 366 s   TSP(600) 111.2 m²	LFS to edge? No FDP flaming <= 10s? No FDP flaming > 10s? No	Class C Smoke production s2 Flaming droplets/particles d0

**Recorded events** Surface flashes? No; Falling specimen parts? No; Smoke not entering hood? No Mutual fixing of backing board failed? No; Distortion/collapse of specimen? No

Pre-test comments Fire retardant paint total coverage 300 g/m2

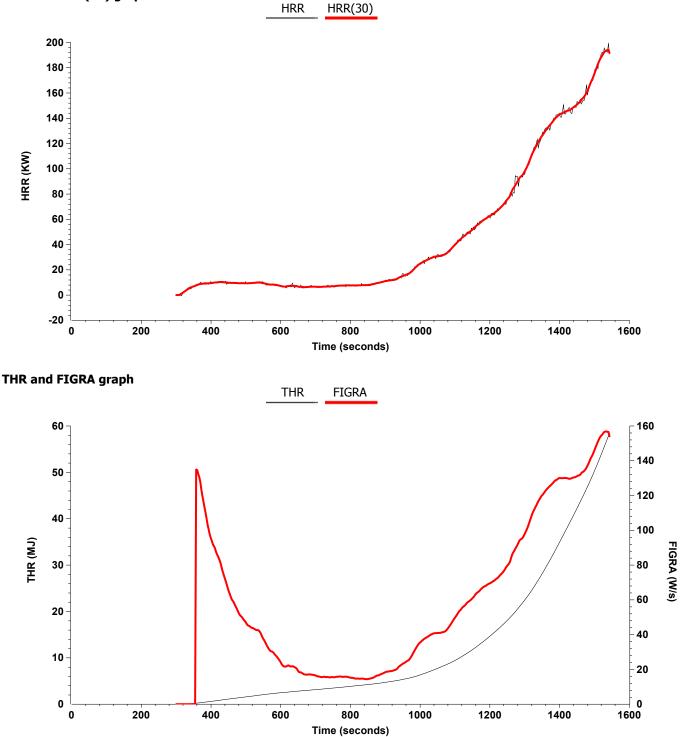
### **After-test comments**

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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### HRR and HRR(30) graph

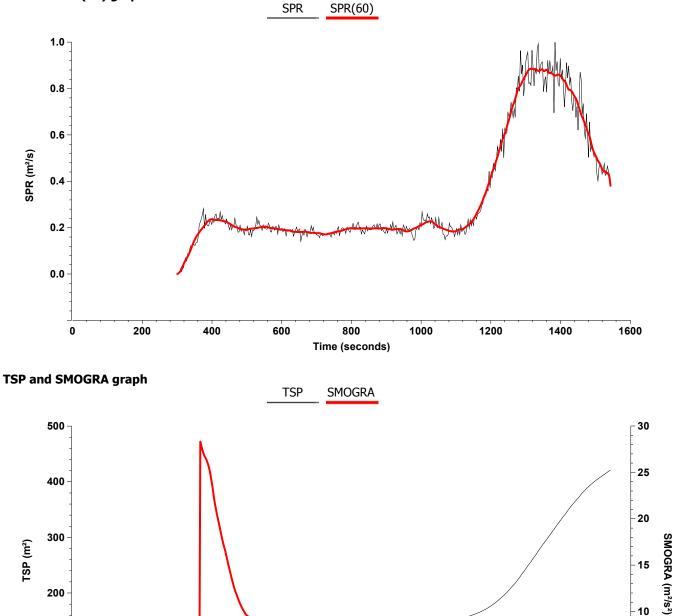


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### SPR and SPR(60) graph



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Time (seconds)