SBI Test Report

Laboratory name MeKA Testing laboratory

Operator **Edgars Buksans**

Filename C:\SBICALC\Data\2713\2713-1.csv

Report identification 2713-1

Product identification Fire retardant paint Retaflame WP 710 treated wood particleboard substrate

Test Standard used EN 13823:2010 Date of test 27/12/2017 Date of report 27/12/2017 17.2 MJ/m³ F'

Apparatus specifications

kt 0.86 kp 1.08 Duct diameter 0.315 m O2 calibration delay time 12 s CO2 calibration delay time 9 s

Pre-test conditions Baseline duct temperature 289.98 K Ambient temperature 289.73 K Ambient pressure 100.583 kPa Relative humidity 37%

Baseline conditions

Baseline ambient oxygen 20.802% Baseline oxygen 20.950% Baseline carbon dioxide 0.0431% Baseline smoke 100.01% Specimen conditioning

Method Constant mass Time interval 24 hours Mass 1 6294 q 6294 q Mass 2 23°C **Temperature** RH 50%

Specimen information

Thickness 12 mm

Density

Surface mass/area Specimen number

Date of arrival 14/12/2017 Mounting method

Joints none Fixed to substrate? Yes none

Fixing method Substrate

Manufacturer

Sponsor

wood particleboard

Retaflame/Worthcoatings LLC

5.2.2b) in EN 13823:2010

Test validity criteria Test drifts

Initial Final Change 20.950% 20.942% 0.007% Oxygen CO2 0.043% 0.046% 0.003% 100.01% 99.60% 0.004 Smoke

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 313.92 K at 303 s Oxygen rose by 0.05% from baseline of 20.667% at 303 s CO2 dropped by 0.02% from baseline of 0.213% at 303 s

Burner details

29.925 kW Burner HRR Burner HRR std. dev. 0.529 kW Burner CO2/O2 ratio 0.603 **Burner SPR** 0.028 m²/s Burner SPR std. dev. 0.005 m²/s Burner response time 12 s

Other checks

Minimum duct flow 0.534 m3/s Maximum duct flow 0.621 m3/s No T/C failure

Classification results

FIGRA(0.2) 63.3 W/s at 510 s FIGRA(0.4) 63.3 W/s at 510 s THR(600) 6.5 MJ

SMOGRA TSP(600) 52.2 m²

8.4 m²/s² at 465 s

Classification observations LFS to edge? No FDP flaming $\leq 10s$? No

FDP flaming > 10s?

Potential classification

Class A2/B 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

No

Pre-test comments Paint aplied in two layers with total consumption 400 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.

30

20

10

0

1600

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8

6 -

2 -

0

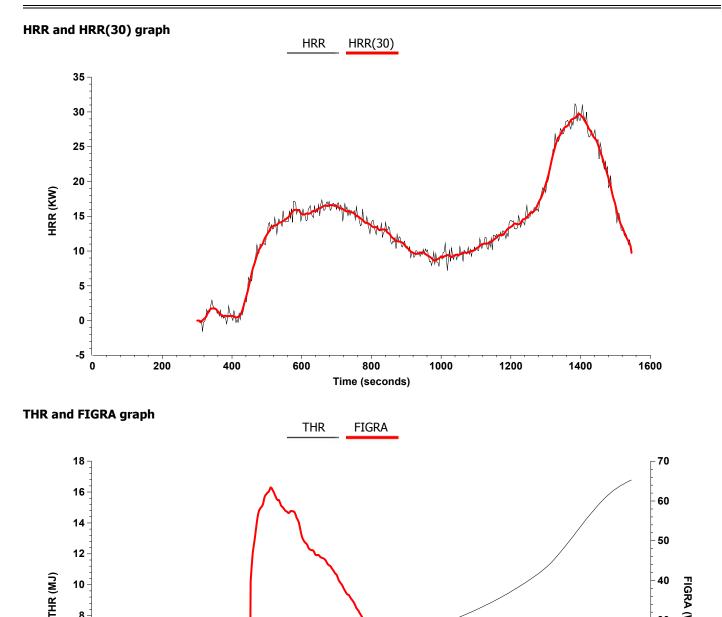
0

200

400

600

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800

Time (seconds)

1000

1200

1400

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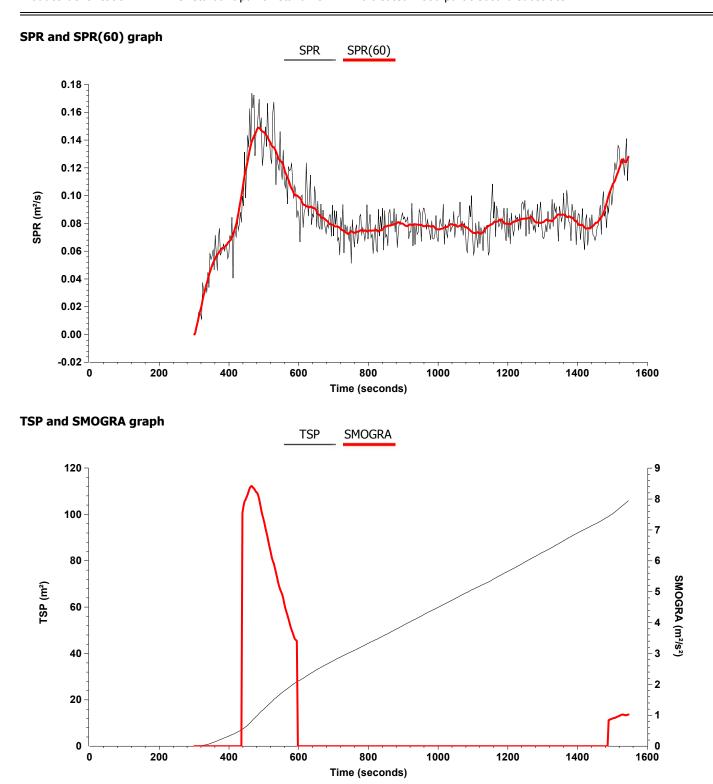
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