

SBI Test Report

Laboratory name MeKA Testesanas laboratorija
 Operator Edgars Buksans
 Filename C:\SBICALC\Data\626\626-1.csv
 Report identification 624-1
 Product identification Wood Acoya + Holz Prof fire retardant

Test		Pre-test conditions		Specimen conditioning	
Standard used	EN 13823:2010	Baseline duct temperature	296.48 K	Method	Constant mass
Date of test	08/12/2011	Ambient temperature	293.95 K	Time interval	24 hours
Date of report	08/12/2011	Ambient pressure	101.732 kPa	Mass 1	14562 g
E'	17.2 MJ/m ³	Relative humidity	22%	Mass 2	14562 g
Apparatus specifications		Baseline conditions		Temperature	23°C
kt	0.9	Baseline ambient oxygen	20.824%	RH	50%
kp	1.08	Baseline oxygen	20.955%		
Duct diameter	0.315 m	Baseline carbon dioxide	0.0457%		
O2 calibration delay time	12 s	Baseline smoke	100.04%		
CO2 calibration delay time	11 s				

Specimen information

Thickness	15 mm	Mounting method	5.2.2b) in EN 13823:2010
Density		Joints	standard horizontal
Surface mass/area		Fixed to substrate?	Yes
Specimen number	1	Fixing method	screw
Date of arrival	15/11/2011	Substrate	Gypsum plasterboard
		Manufacturer	Holz Prof OU
		Sponsor	Holz Prof OU

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.955%	20.953%	0.002%
CO2	0.046%	0.046%	0.001%
Smoke	100.04%	99.89%	0.002

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 319.37 K at 303 s
 Oxygen rose by 0.05% from baseline of 20.677% at 303 s
 CO2 dropped by 0.02% from baseline of 0.220% at 300 s

Burner details

Auxiliary Burner HRR	30.752 kW
Auxiliary Burner HRR std. dev.	0.794 kW
Burner CO2/O2 ratio	0.628
Auxiliary Burner SPR	0.029 m ² /s
Auxiliary Burner SPR std. dev.	0.004 m ² /s
Burner response time (s)	9 s

Other checks

Minimum duct flow	0.560 m ³ /s
Maximum duct flow	0.660 m ³ /s
No T/C failure	

Classification results

FIGRA(0.2)	68.5 W/s at 381 s
FIGRA(0.4)	55.6 W/s at 411 s
THR(600)	3.4 MJ
SMOGRA	1.2 cm ² /s ² at 1188 s
TSP(600)	40.3 m ²

Classification observations

LFS to edge?	No
FDP flaming <= 10s?	No
FDP flaming > 10s?	No

Potential classification

Class	A2/B
Smoke production	s1
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

After-test comments

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Alternative smoke results

Smoke test filename	C:\SBICALC\SMOKE\11120801.CSV
Main burner SPR	0.055 m ² /s
Main burner SPR std. dev.	0.005 m ² /s

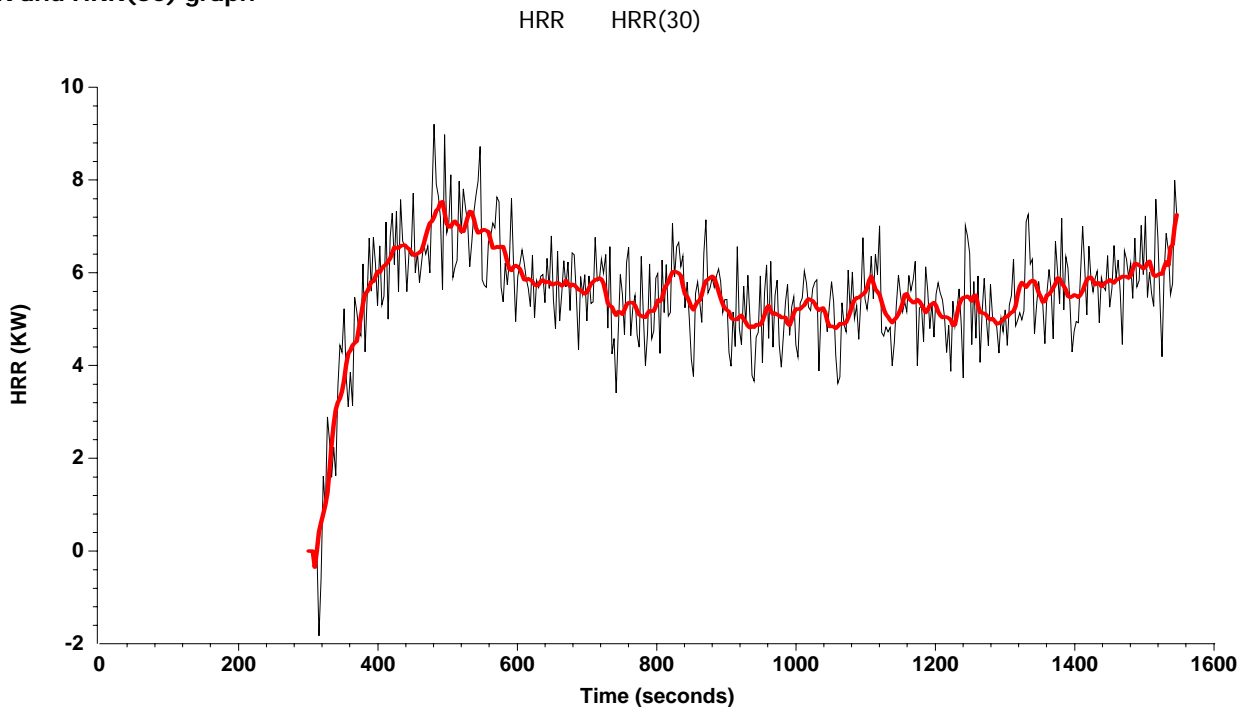
Alternative classification results

SMOGRA	threshold not reached
TSP(600)	25.2 m ²
Smoke production class	s1

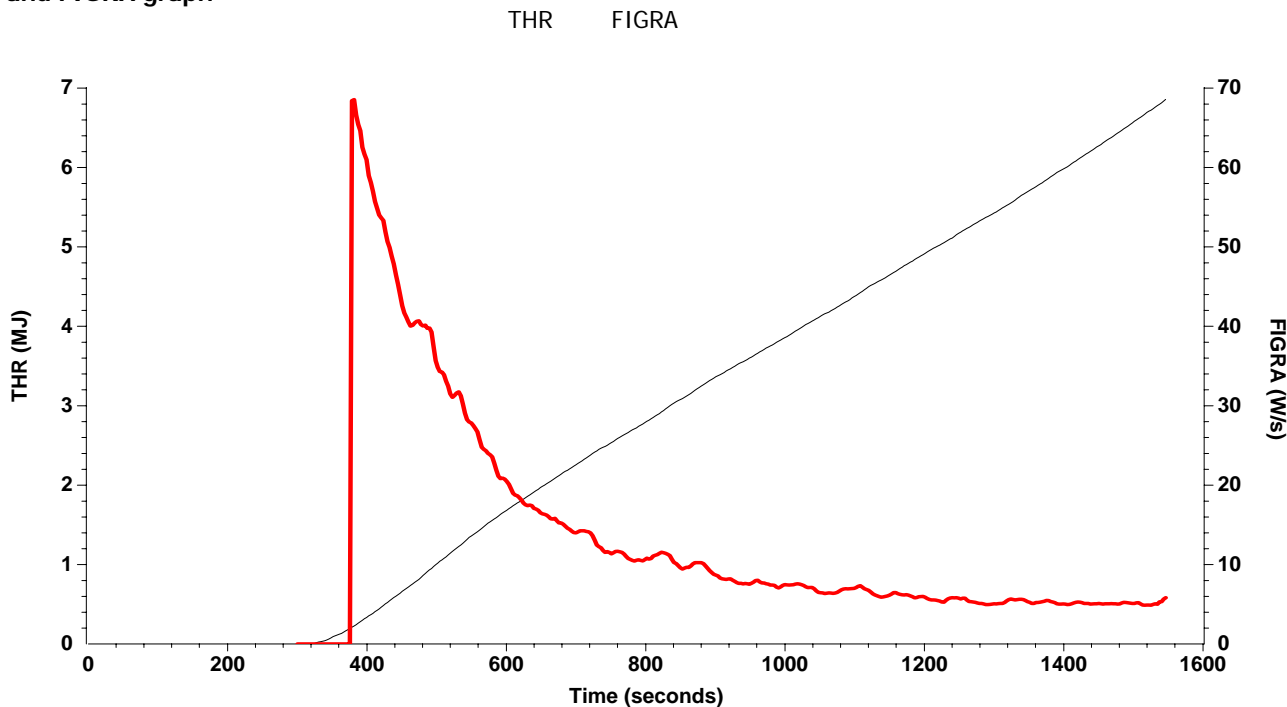
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HRR and HRR(30) graph



THR and FIGRA graph



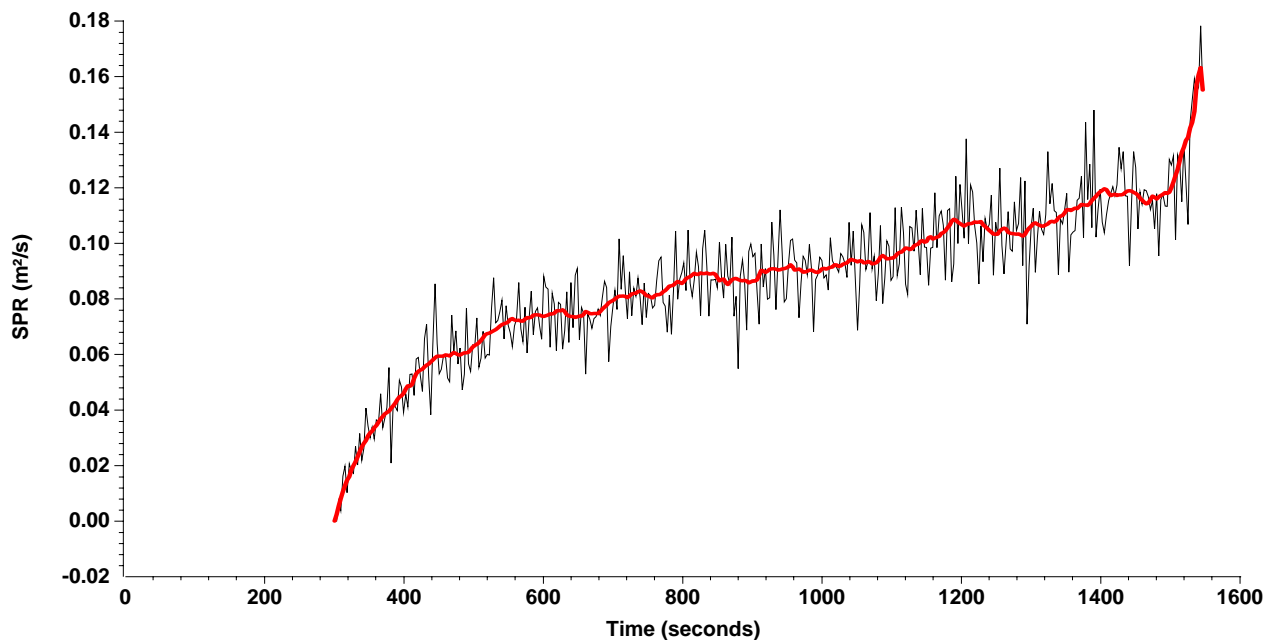
The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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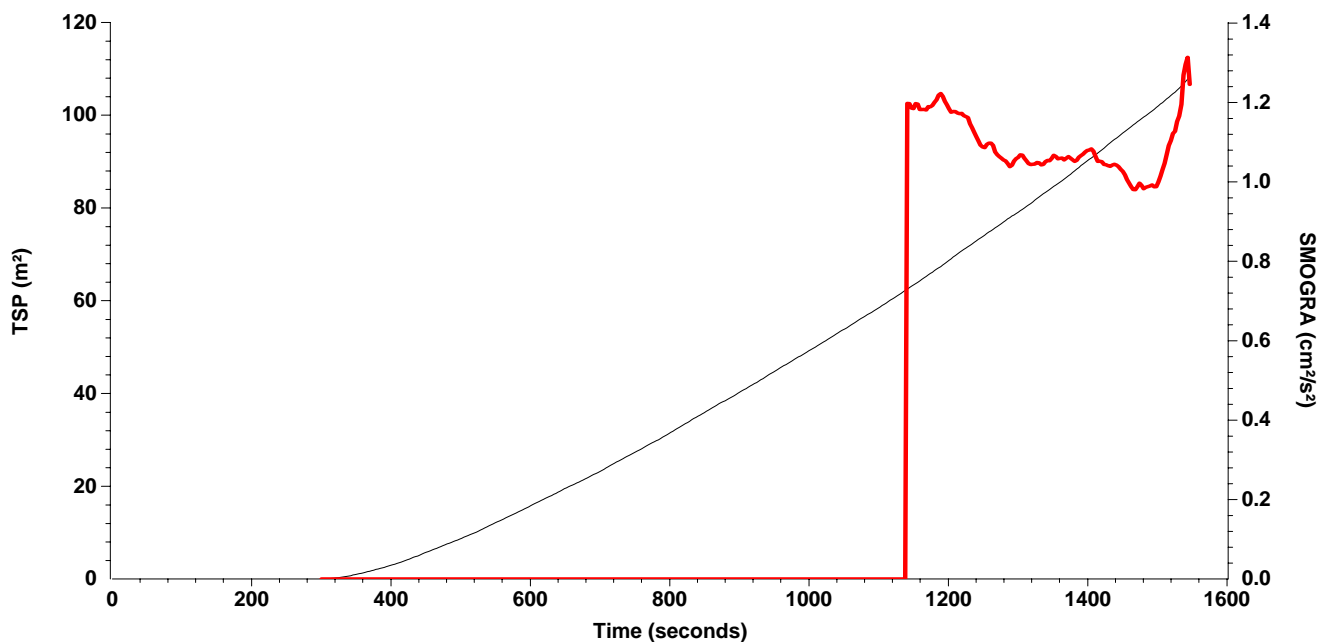
SPR and SPR(60) graph

SPR SPR(60)



TSP and SMOGRA graph

TSP SMOGRA



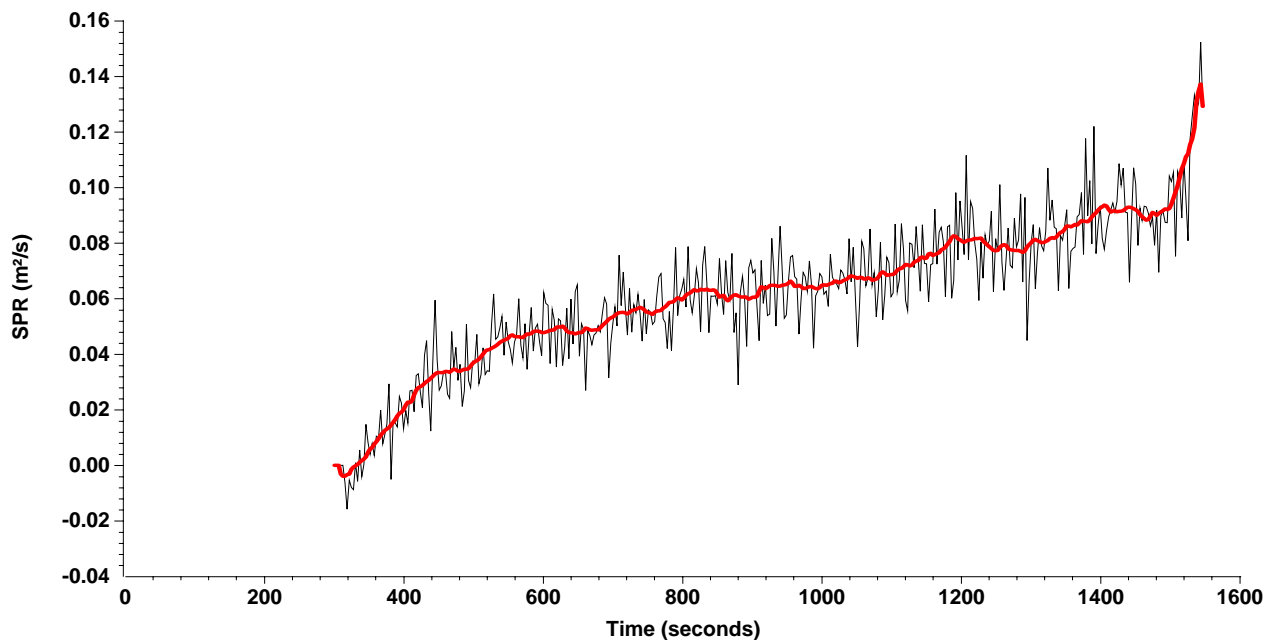
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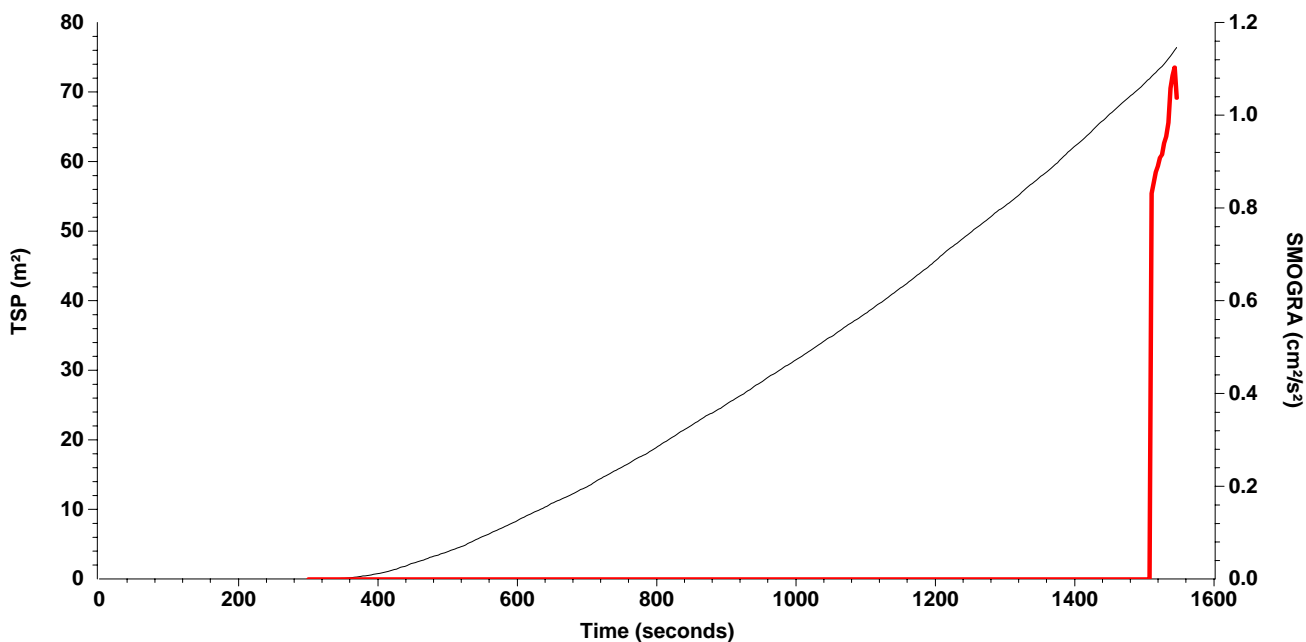
Alternative SPR and SPR(60) graph

SPR SPR(60)



Alternative TSP and SMOGRA graph

TSP SMOGRA



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