

# SBI Test Report

Laboratory name MeKA Fire testing  
 Operator Elvis Cukurs  
 Test filename C:\SBICALC\Data\7849\7849-1-1.CSV  
 Smoke baseline filename C:\SBICALC\SMOKE\23022301.CSV  
 Report identification 7849-1-1  
 Product identification Wall and ceiling panels

Test		Pre-test conditions		Specimen conditioning	
Standard used	EN 13823:2020	Baseline duct temperature	288.23 K	Method	Constant mass
Date of test	23/02/2023	Ambient temperature	286.59 K	Time interval	24 hours
Date of report	23/02/2023	Ambient pressure	102.392 kPa	Mass 1	16118 g
E'	17.2 MJ/m <sup>3</sup>	Relative humidity	33%	Mass 2	16112 g
<b>Apparatus specifications</b>		<b>Test baseline conditions</b>		<b>Smoke baseline test results</b>	
kt	0.84	Baseline ambient oxygen	20.834%	Main burner SPR	0.059 m <sup>2</sup> /s
kp	1.24	Baseline oxygen	20.949%	Main burner SPR std. dev.	0.007 m <sup>2</sup> /s
Duct diameter	0.315 m	Baseline carbon dioxide	0.0446%		
O2 calibration delay time	9 s	Baseline smoke	99.96%		
CO2 calibration delay time	10 s				

## Specimen information

Thickness	30 mm	Mounting method	5.2.2b) in EN 13823
Density		Joints	standard vertical
Surface mass/area		Fixed to substrate?	Yes
Specimen number	1	Fixing method	screw
Date of arrival	21/02/2023	Substrate	40 mm wood studs and mineral wool
		Manufacturer	
		Sponsor	BF 12 A/S

## Test validity criteria

### Test drifts

	Initial	Final	Change
Oxygen	20.949%	20.953%	0.004%
CO2	0.045%	0.044%	0.000%
Smoke	99.96%	99.33%	0.006

**Exposure time** 1254 s

### Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 313.15 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 0.201% at 306 s

### Burner details

Auxiliary Burner HRR	29.287 kW
Auxiliary Burner HRR std. dev.	0.682 kW
Burner CO2/O2 ratio	0.577

### Other checks

Minimum duct flow	0.522 m <sup>3</sup> /s
Maximum duct flow	0.637 m <sup>3</sup> /s
No T/C failure	

## Classification results

FIGRA(0.2)	15.2 W/s at 498 s
FIGRA(0.4)	15.2 W/s at 498 s
THR(600)	1.8 MJ
SMOGRA	3.4 m <sup>2</sup> /s <sup>2</sup> at 597 s
TSP(600)	46.5 m <sup>2</sup>

## 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

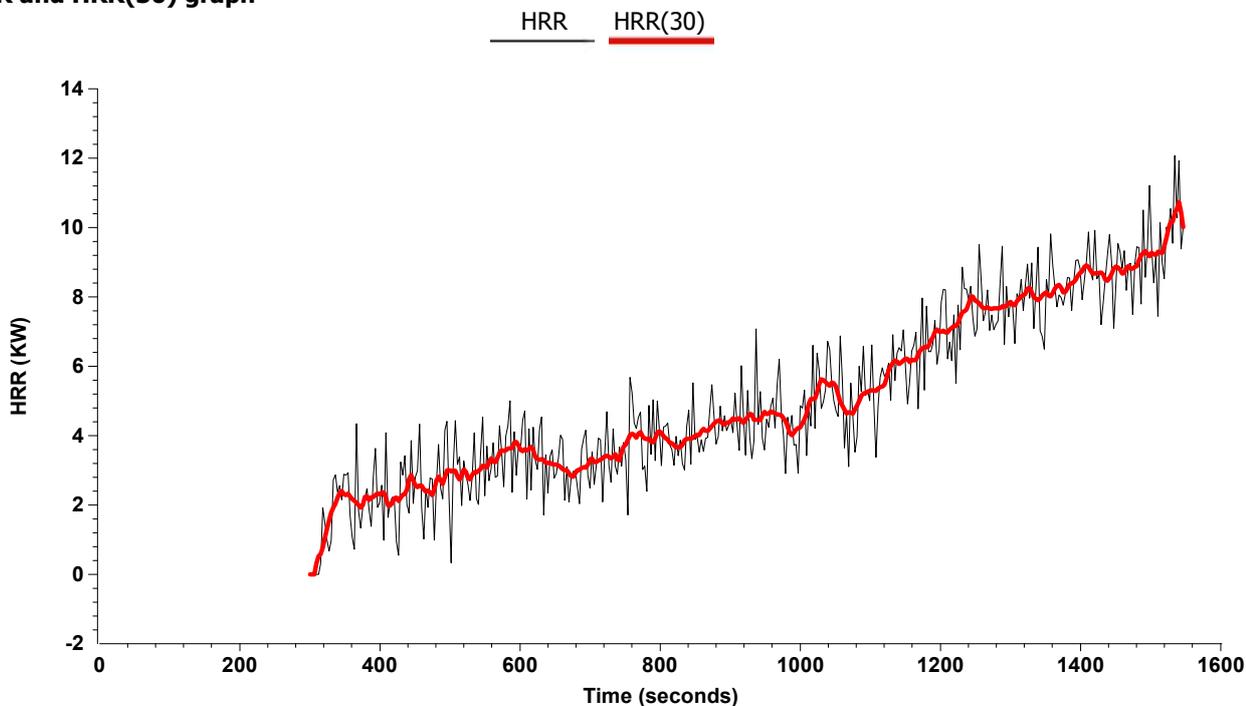
Plywood slats with ASH veneer 41x30 mounted with 24 mm of air between fitted Black fire Cloth on back. Surface treated with Masquelack 200 (g/m<sup>2</sup>)

## After-test comments

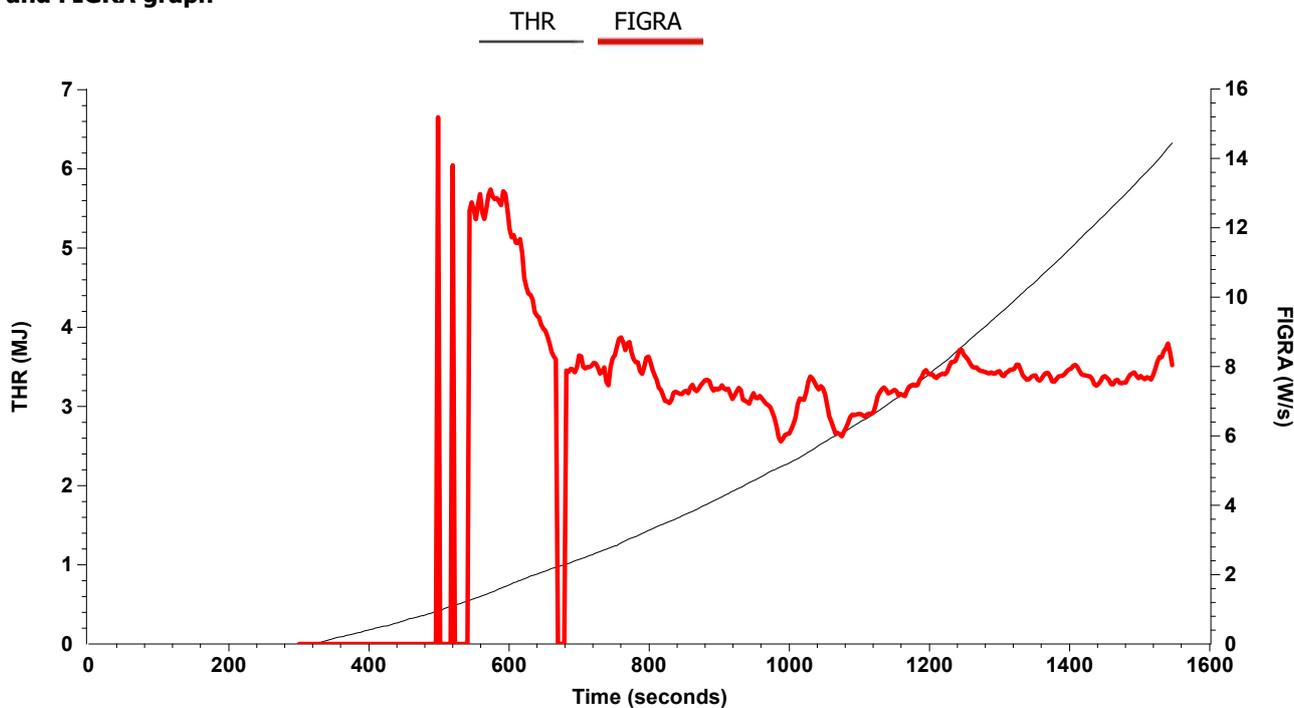
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## HRR and HRR(30) graph



## THR and FIGRA graph

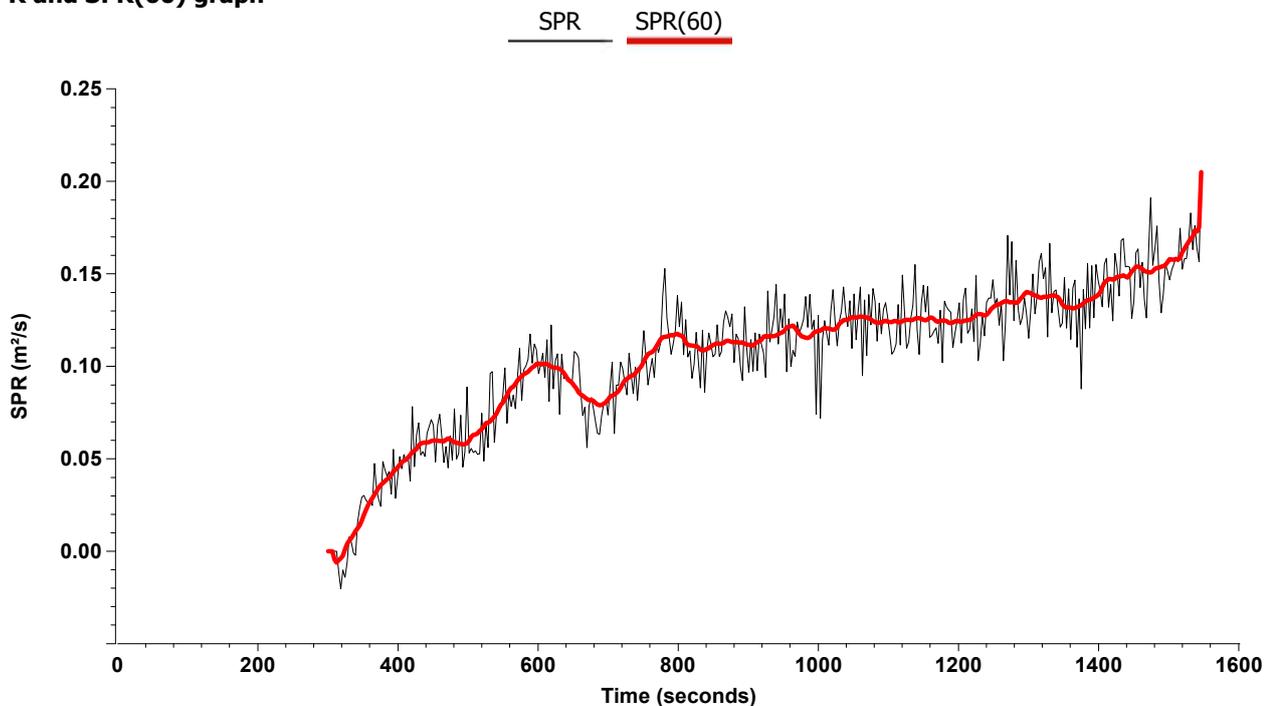


The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

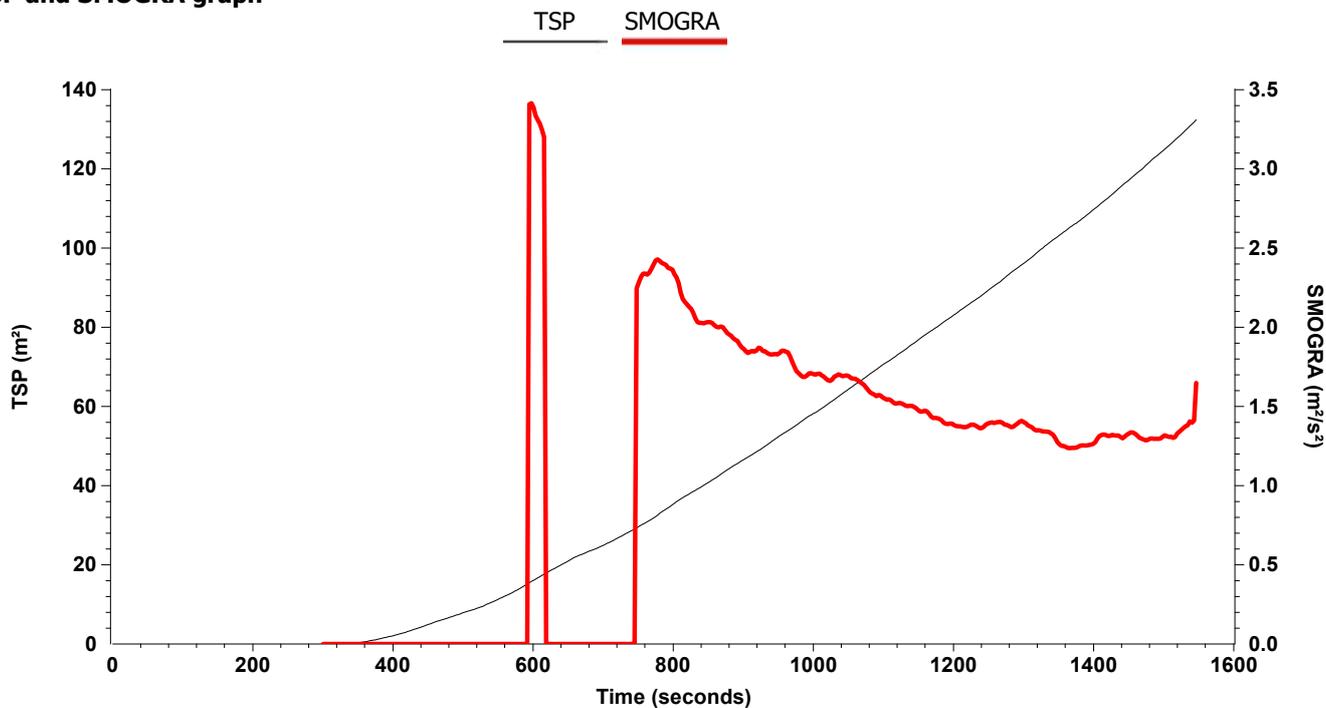
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## SPR and SPR(60) graph



## TSP and SMOGRA graph



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