

SBI Test Report

Laboratory name TUV Eesti
 Operator Hannes Kullerkupp
 Filename C:\SBICALC\DATA\12090002.RW1
 Report identification 048-12TM
 Product identification Sulundprofiil

Test		Pre-test conditions		Specimen conditioning	
Standard used	EN 13823:2002	Baseline duct temperature	292.59 K	Method	Constant mass
Date of test	07/09/2012	Ambient temperature	288.38 K	Time interval	24 hours
Date of report	07/09/2012	Ambient pressure	100.58 kPa	Mass 1	118800 g
E'	17.2 MJ/m ³	Relative humidity	65%	Mass 2	118800 g
Apparatus specifications		Baseline conditions		Temperature	23°C
kt	0.834	Baseline ambient oxygen	20.644%	RH	50%
kp	1.08	Baseline oxygen	20.950%		
Duct diameter	0.315 m	Baseline carbon dioxide	0.0405%		
O2 calibration delay time	12 s	Baseline smoke	99.87%		
CO2 calibration delay time	11 s				

Specimen information

Thickness	32 mm	Mounting method	5.2.2c) in EN 13823:2002
Density		Joints	none
Surface mass/area	kg/m ²	Fixed to substrate?	Yes
Specimen number	1	Fixing method	screw
Date of arrival	06/09/2012	Substrate	Roov ohuvahega 92mm
		Manufacturer	PlastRex OU
		Sponsor	PlastRex OU

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.950%	20.946%	0.004%
CO2	0.040%	0.054%	0.013%
Smoke	99.87%	98.55%	0.013

Exposure time 168 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 314.65 K at 303 s
 Oxygen rose by 0.05% from baseline of 20.662% at 303 s
 CO2 dropped by 0.02% from baseline of 0.217% at 306 s

Burner details

Burner HRR	31.030 kW
Burner HRR std. dev.	1.208 kW
Burner CO2/O2 ratio	0.614
Burner SPR	0.034 m ² /s
Burner SPR std. dev.	0.004 m ² /s
Burner response time (s)	12 s

Other checks

Minimum duct flow	0.346 m ³ /s
Maximum duct flow	0.645 m ³ /s
Possible T/C3 failure	

Classification results

FIGRA(0.2)	2195.2 W/s at 456 s
FIGRA(0.4)	2195.2 W/s at 456 s
THR(600)	17.7 MJ
SMOGRA	232.8 cm ² /s ² at 456 s
TSP(600)	160.1 m ²

Classification observations

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

Potential classification

Class	E
Smoke production	s3
Flaming droplets/particles	d0

Recorded events

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

Pre-test comments

Sulundprofiil paksus 32mm, roovid 92x92mm

After-test comments

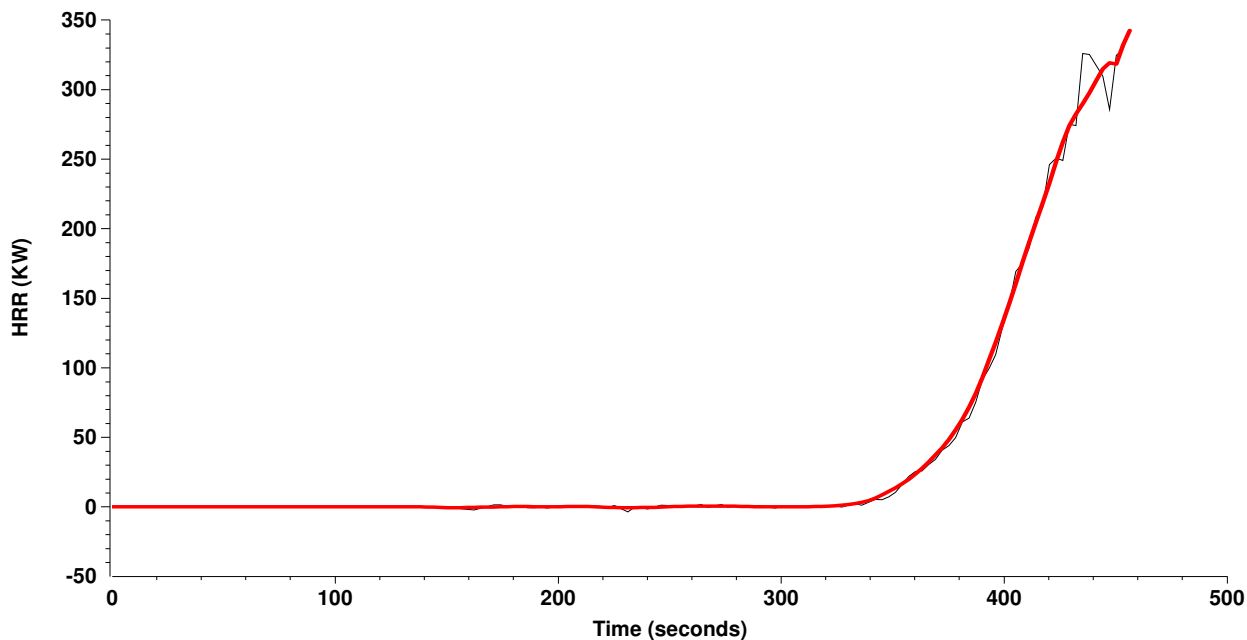
Katse katkestatud HRR >350kW

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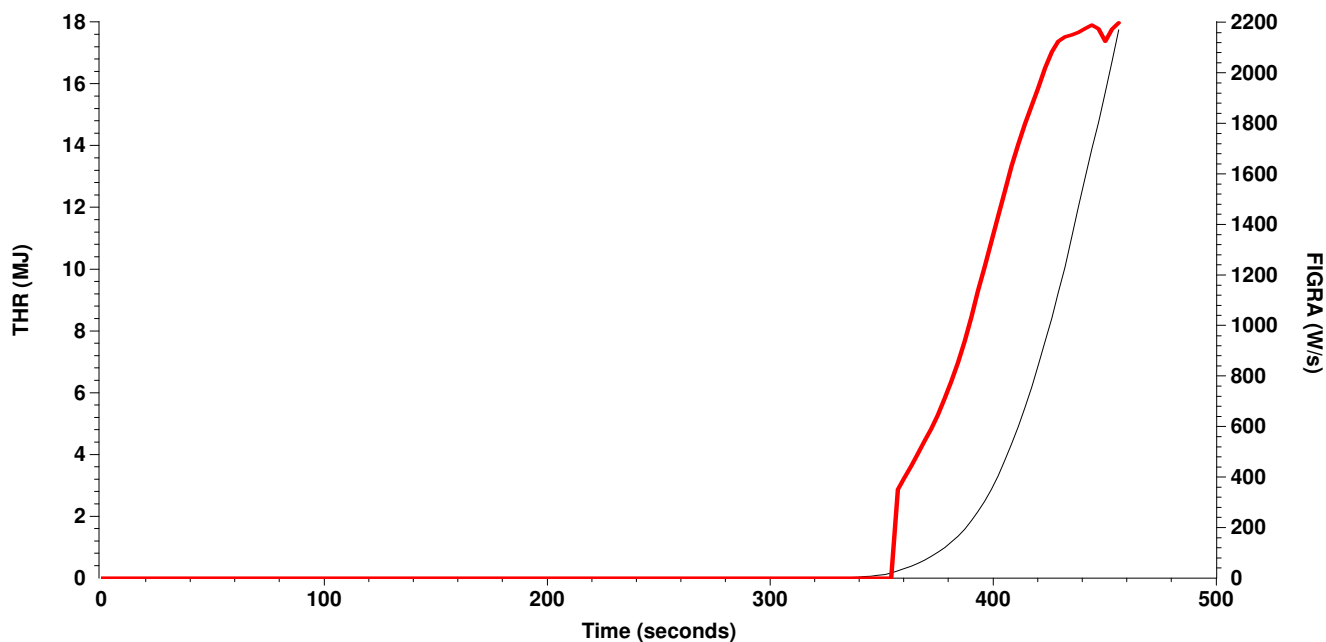
HRR and HRR(30) graph

HRR HRR(30)



THR and FIGRA graph

THR FIGRA



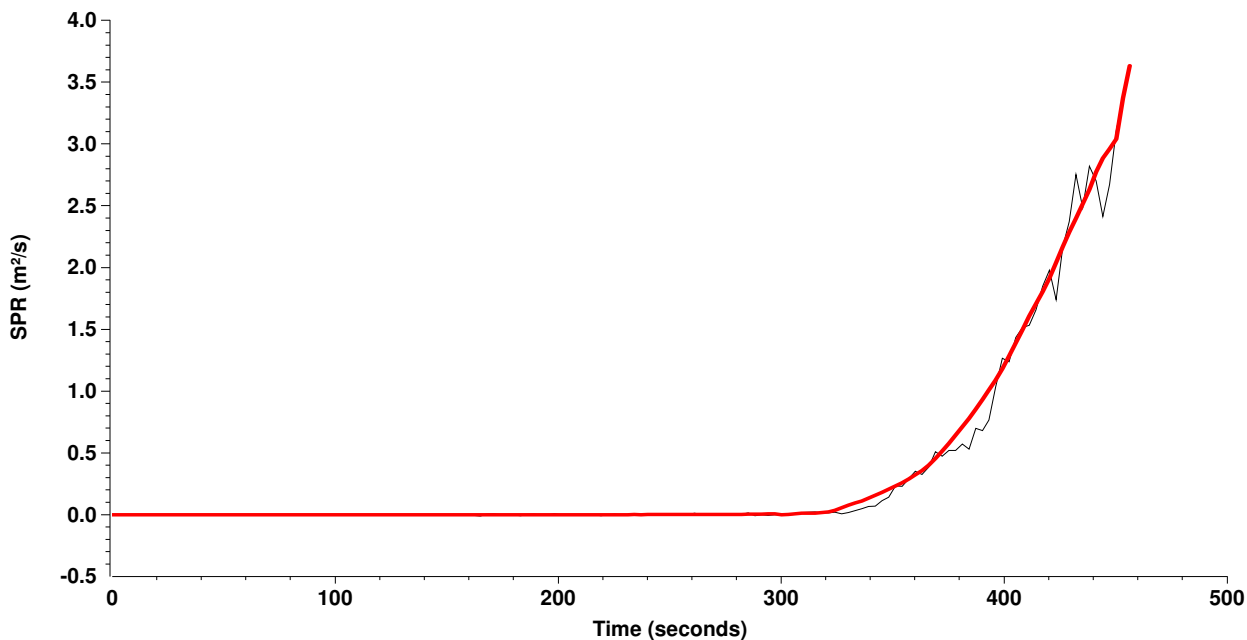
The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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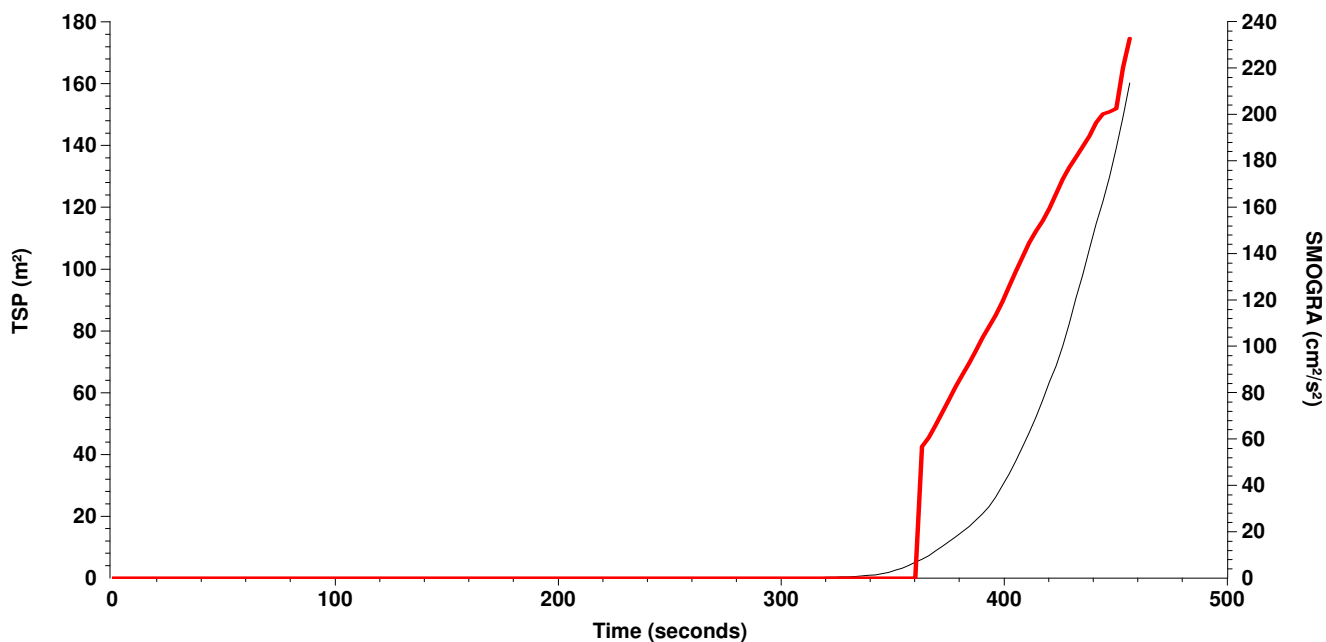
SPR and SPR(60) graph

SPR SPR(60)



TSP and SMOGRA graph

TSP SMOGRA



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