

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				Burner details	
	Initial	Final	Change		
Oxygen	20.950%	20.946%	0.004%	Burner HRR	31.030 kW
CO2	0.040%	0.054%	0.013%	Burner HRR std. dev.	1.208 kW
Smoke	99.87%	98.55%	0.013	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
Exposure time	168 s			Other checks	
Synchronisation details	Duct temp. dropped by 2.5 K from baseline of 314.65 K at 303 s			Minimum duct flow	0.346 m ³ /s
	Oxygen rose by 0.05% from baseline of 20.662% at 303 s			Maximum duct flow	0.645 m ³ /s
	CO2 dropped by 0.02% from baseline of 0.217% at 306 s			Possible T/C3 failure	

Classification results		Classification observations		Potential classification	
FIGRA(0.2)	2195.2 W/s at 456 s	LFS to edge?	No	Class	E
FIGRA(0.4)	2195.2 W/s at 456 s	FDP flaming <= 10s?	No	Smoke production	s3
THR(600)	17.7 MJ	FDP flaming > 10s?	No	Flaming droplets/particles	d0
SMOGRA	232.8 cm ² /s ² at 456 s				
TSP(600)	160.1 m ²				

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

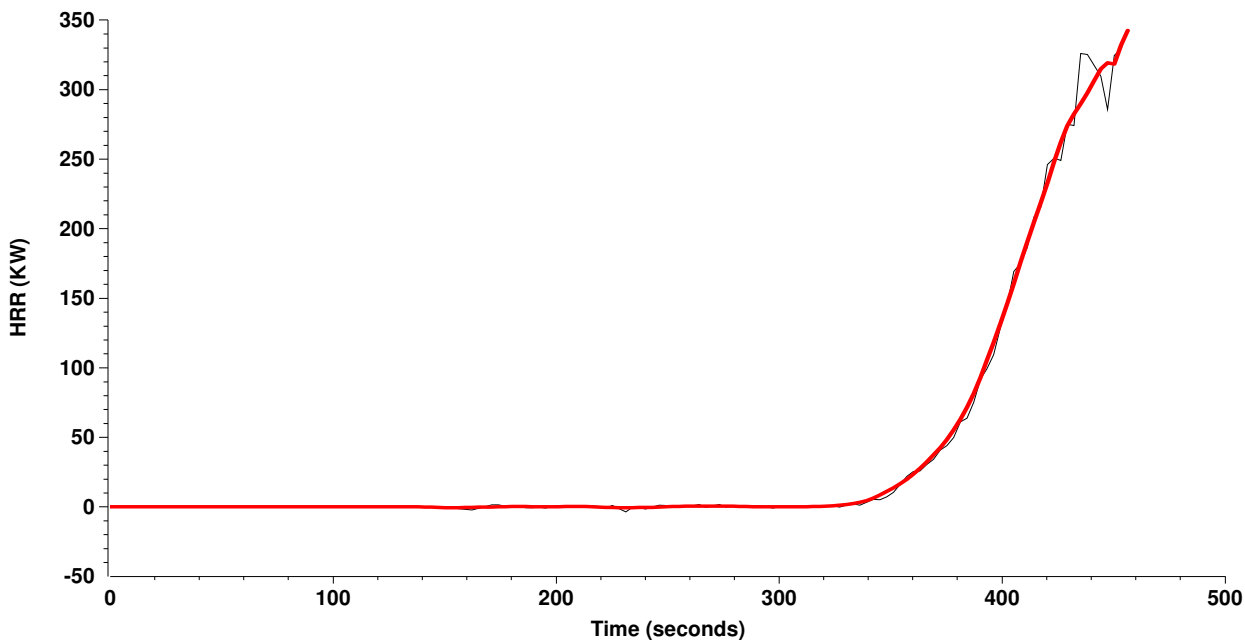
After-test comments Katse katkestatud HRR >350kW

SBI Test Report

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

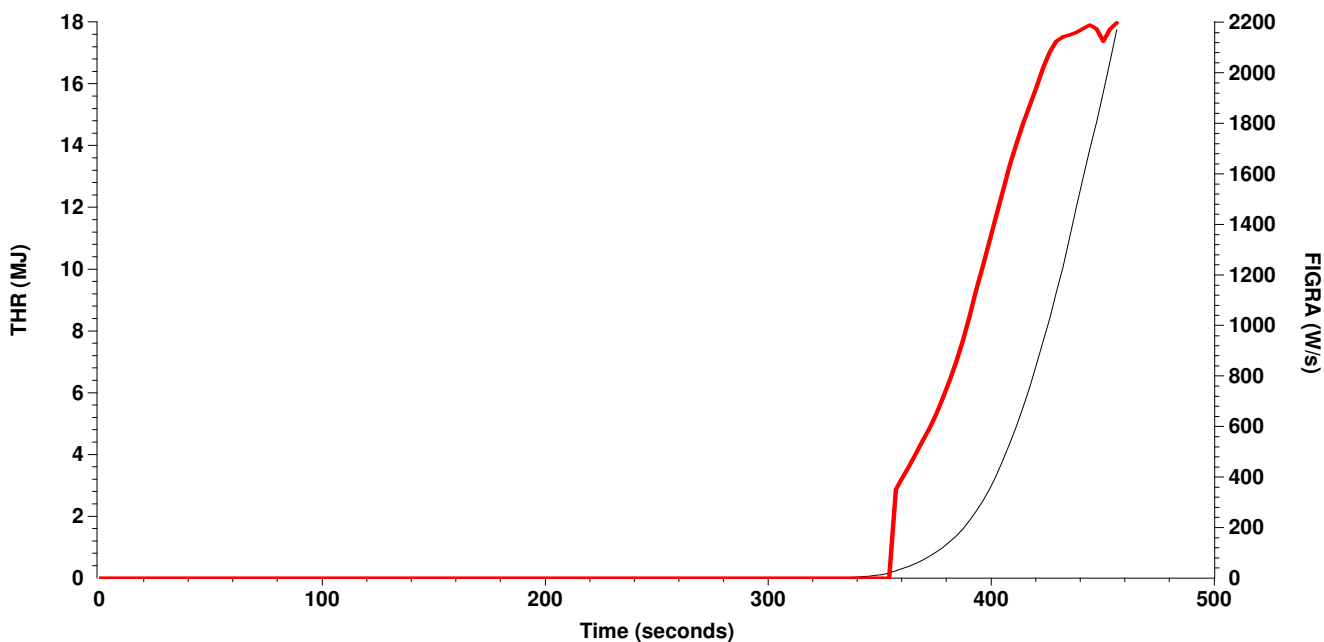
HRR and HRR(30) graph

HRR HRR(30)



THR and FIGRA graph

THR FIGRA



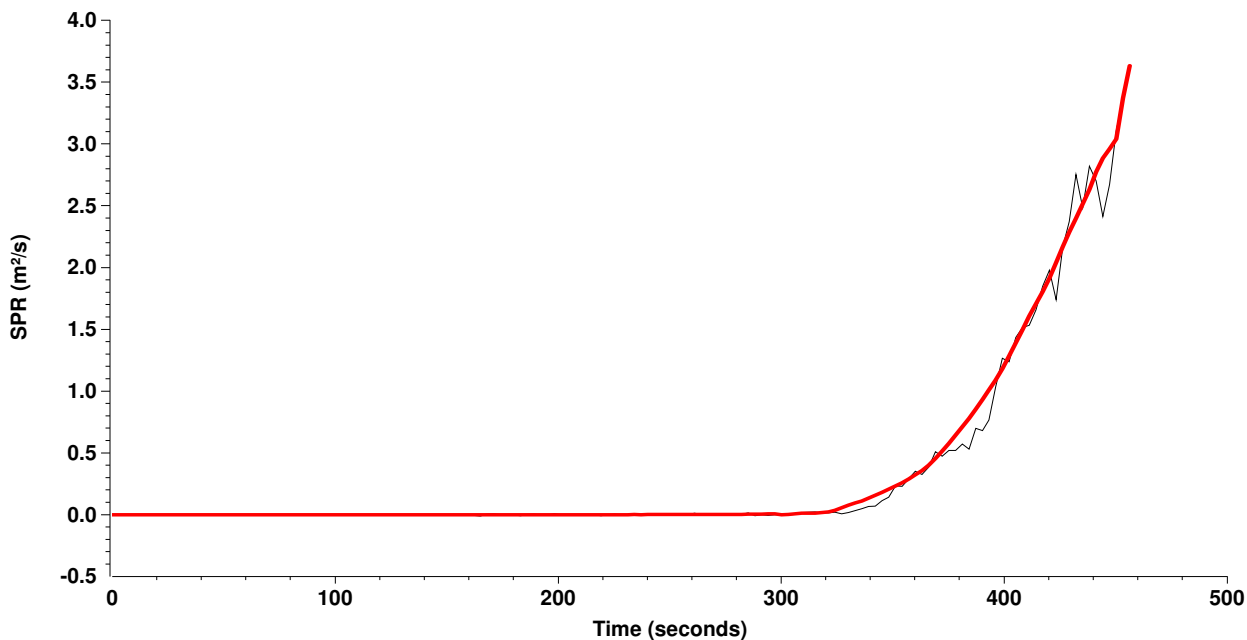
The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

SBI Test Report

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

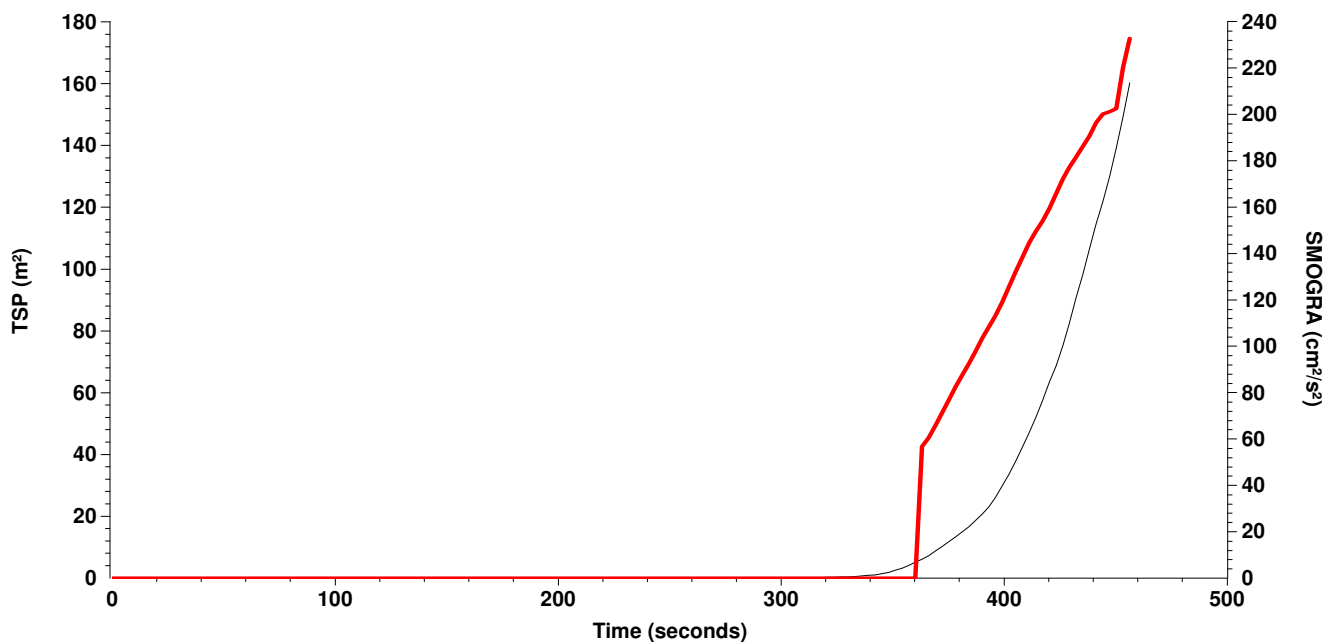
SPR and SPR(60) graph

SPR SPR(60)



TSP and SMOGRA graph

TSP SMOGRA



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.