

SBI Test Report

Laboratory name MeKA Testing laboratory
 Operator Elvis Skavronskis
 Test filename C:\SBICALC\Data\8695\8695-1-1.CSV
 Smoke baseline filename C:\SBICALC\SMOKE\23100701.CSV
 Report identification 8695-1-1
 Product identification Whitewood glulam cladding

Test		Pre-test conditions		Specimen conditioning	
Standard used	EN 13823:2020	Baseline duct temperature	294.15 K	Method	Constant mass
Date of test	07/11/2023	Ambient temperature	291.60 K	Time interval	24 hours
Date of report	07/11/2023	Ambient pressure	100.967 kPa	Mass 1	11475 g
E'	17.2 MJ/m ³	Relative humidity	48%	Mass 2	11475 g
Apparatus specifications		Test baseline conditions		Smoke baseline test results	
kt	0.85	Baseline ambient oxygen	20.699%	Main burner SPR	0.062 m ² /s
kp	1.24	Baseline oxygen	20.947%	Main burner SPR std. dev.	0.005 m ² /s
Duct diameter	0.315 m	Baseline carbon dioxide	0.0430%		
O2 calibration delay time	9 s	Baseline smoke	99.99%		
CO2 calibration delay time	10 s				

Specimen information		Mounting method	
Thickness	25 mm	5.2.2a) in EN 13823	
Density		Joints	standard horizontal
Surface mass/area		Fixed to substrate?	Yes
Specimen number	1	Fixing method	screw
Date of arrival	26/10/2023	Substrate	40 mm wood studs and gypsum plasterboard
		Manufacturer	
		Sponsor	Bitus AB

Test validity criteria				Burner details	
Test drifts				Auxiliary Burner HRR	30.227 kW
	Initial	Final	Change	Auxiliary Burner HRR std. dev.	0.663 kW
Oxygen	20.947%	20.955%	0.008%	Burner CO2/O2 ratio	0.573
CO2	0.043%	0.045%	0.002%		
Smoke	99.99%	99.88%	0.001		
Exposure time				Other checks	
1254 s				Minimum duct flow	0.521 m ³ /s
Synchronisation details				Maximum duct flow	0.633 m ³ /s
Duct temp. dropped by 2.5 K from baseline of 320.12 K at 303 s				No T/C failure	
Oxygen rose by 0.05% from baseline of 20.663% at 303 s					
CO2 dropped by 0.02% from baseline of 0.205% at 306 s					

Classification results		Classification observations		Potential classification	
FIGRA(0.2)	58.5 W/s at 372 s	LFS to edge?	No	Class	A2/B
FIGRA(0.4)	44.4 W/s at 414 s	FDP flaming <= 10s?	No	Smoke production	s1
THR(600)	3.3 MJ	FDP flaming > 10s?	No	Flaming droplets/particles	d0
SMOGRA	threshold not reached				
TSP(600)	39.7 m ²				

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

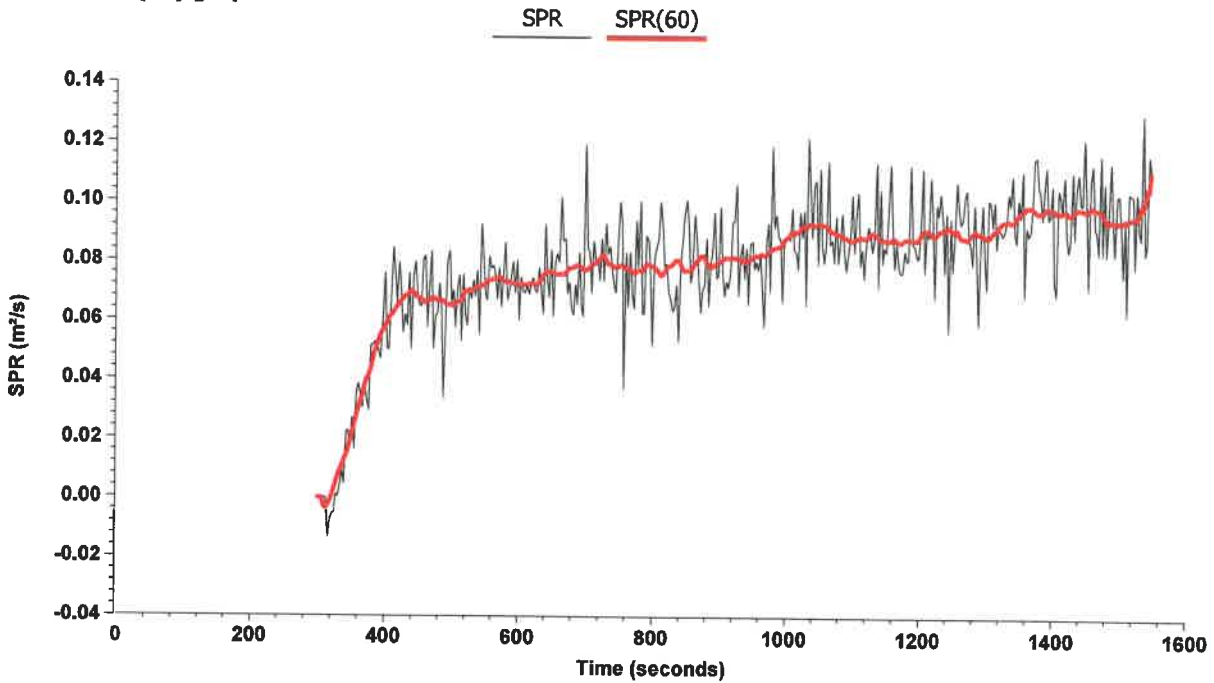
Pre-test comments Burnblock solution

After-test comments

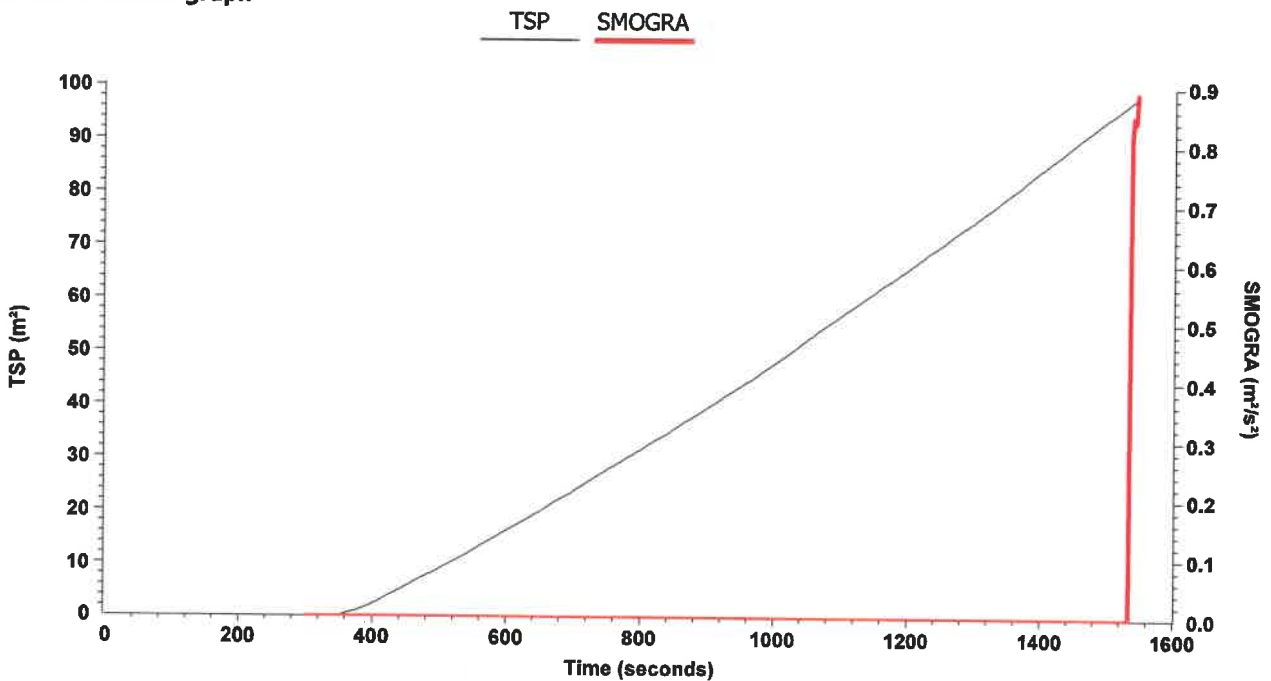
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SPR and SPR(60) graph



TSP and SMOGRA graph

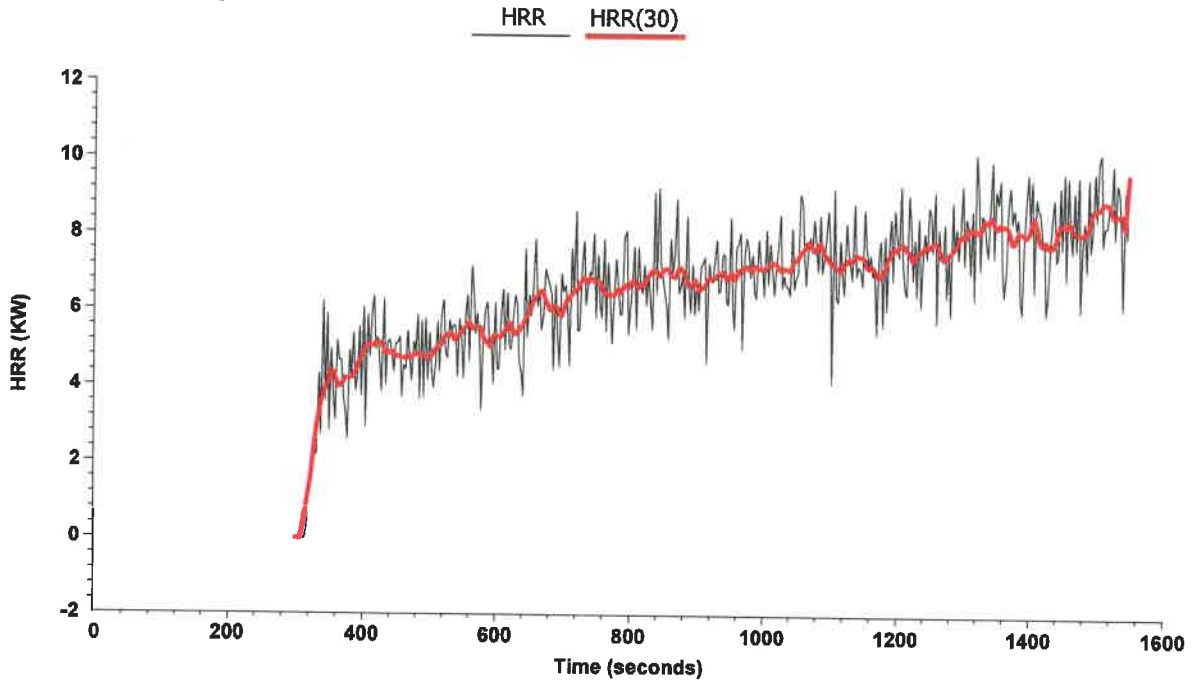


The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

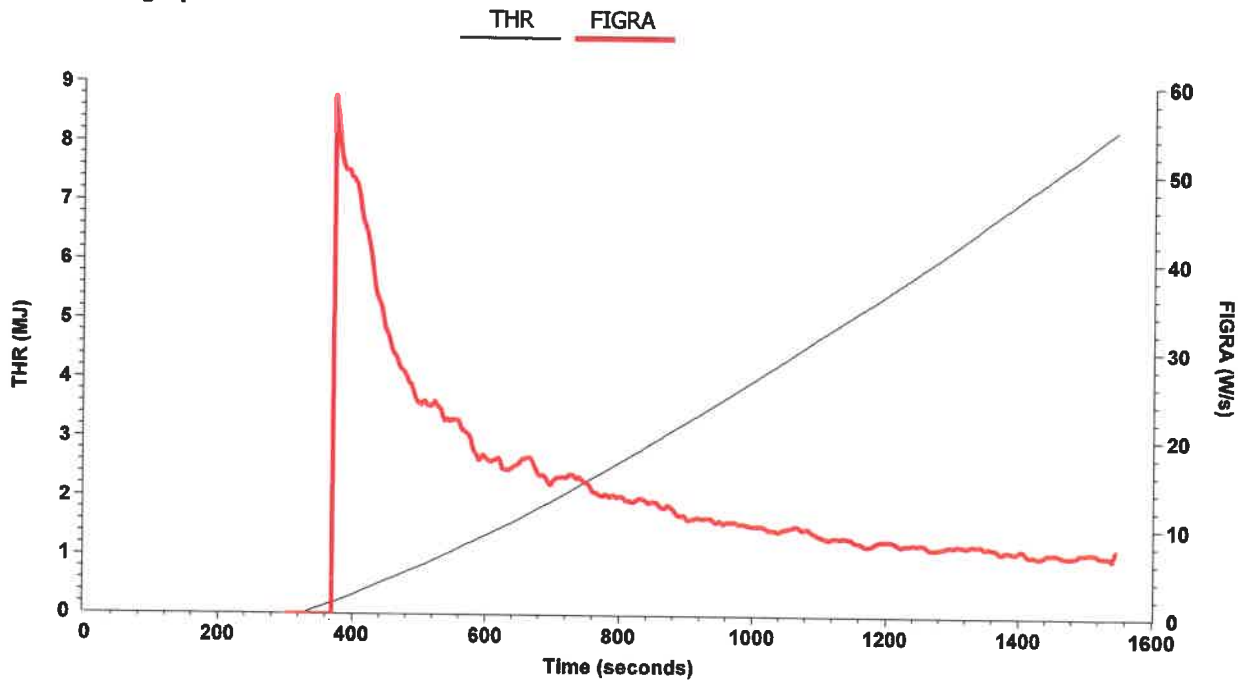
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HRR and HRR(30) graph



THR and FIGRA graph



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07.11.2023