

SBI Test Report

Laboratory name T2I
 Operator Tomas Ongaro
 Filename R:\Prodotti\RDP\RDP 2015\SBI\DATA\Sirca\Ciclo trasparente acqua ignifugo.RW1
 Report identification Sirca Spa
 Product identification Ciclo trasparente acqua ignifugo su MDF

Test		Pre-test conditions		Specimen conditioning	
Standard used	EN 13823:2002	Baseline duct temperature	289.67 K	Method	Not conditioned
Date of test	19/02/2015	Ambient temperature	287.57 K	Time interval	N/A
Date of report	24/03/2015	Ambient pressure	103.734 kPa	Mass 1	N/A
E'	17.2 MJ/m ³	Relative humidity	32%	Mass 2	N/A
Apparatus specifications		Baseline conditions		Temperature	
kt	0.836	Baseline ambient oxygen	20.827%	N/A	
kp	1.08	Baseline oxygen	20.948%	RH	
Duct diameter	0.315 m	Baseline carbon dioxide	0.0462%	N/A	
O2 calibration delay time	9 s	Baseline smoke	100.06%		
CO2 calibration delay time	9 s				

Specimen information

Thickness		Mounting method	5.2.2 in EN 13823:2010
Density		Joints	none
Surface mass/area		Fixed to substrate?	No
Specimen number	1	Fixing method	N/A
Date of arrival		Substrate	none
		Manufacturer	Sirca Spa
		Sponsor	Sirca Spa

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.948%	20.942%	0.006%
CO2	0.046%	0.049%	0.003%
Smoke	100.06%	99.59%	0.005

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 314.19 K at 303 s
 Oxygen rose by 0.05% from baseline of 20.654% at 303 s
 CO2 dropped by 0.02% from baseline of 0.219% at 303 s

Burner details

Burner HRR	32.122 kW
Burner HRR std. dev.	0.637 kW
Burner CO2/O2 ratio	0.588
Burner SPR	0.048 m ² /s
Burner SPR std. dev.	0.007 m ² /s
Burner response time (s)	9 s

Other checks

Minimum duct flow	0.545 m ³ /s
Maximum duct flow	0.631 m ³ /s
No T/C failure	

Classification results

FIGRA(0.2)	154.2 W/s at 366 s
FIGRA(0.4)	113.1 W/s at 384 s
THR(600)	3.3 MJ
SMOGRA	21.2 cm ² /s ² at 375 s
TSP(600)	50.2 m ²

Classification observations

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

Potential classification

Class	C
Smoke production	s2
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

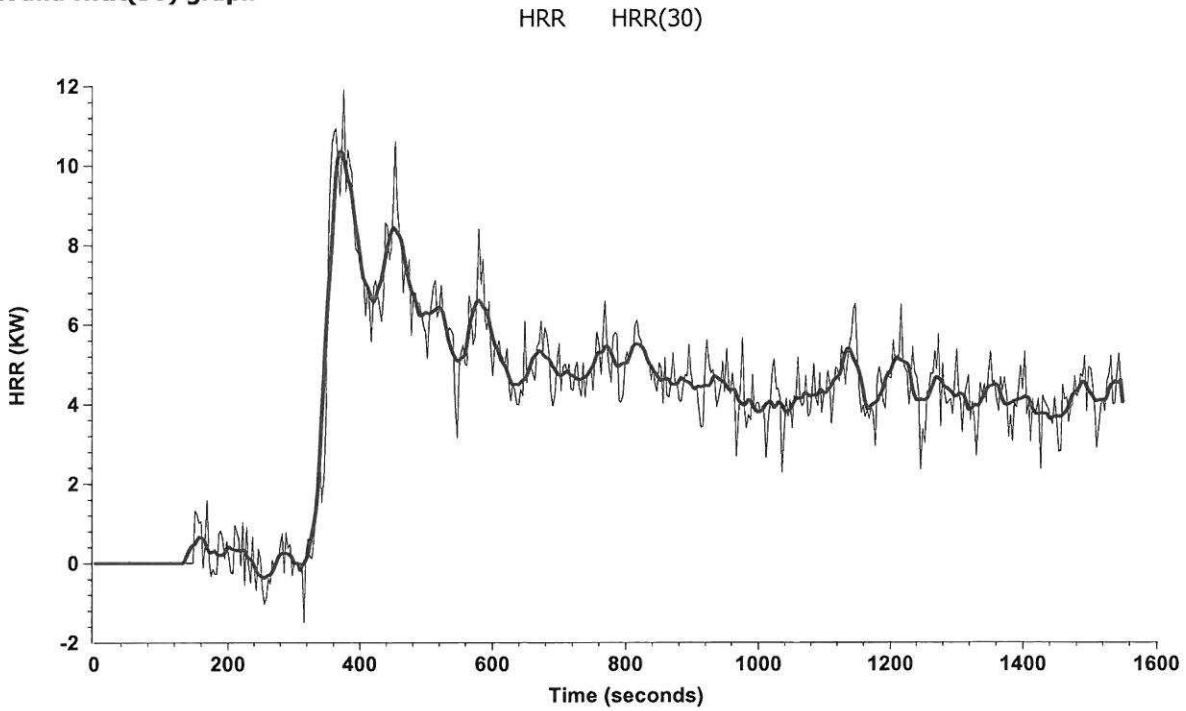
Pre-test comments

After-test comments

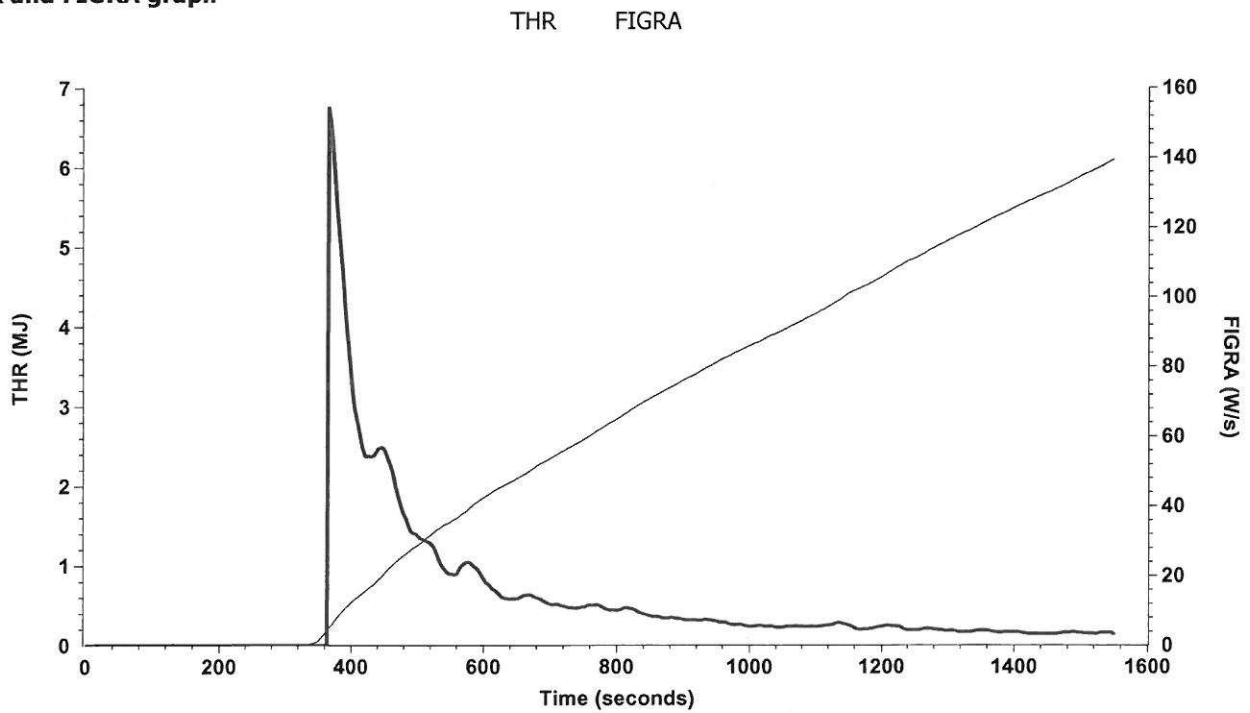
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HRR and HRR(30) graph



THR and FIGRA graph



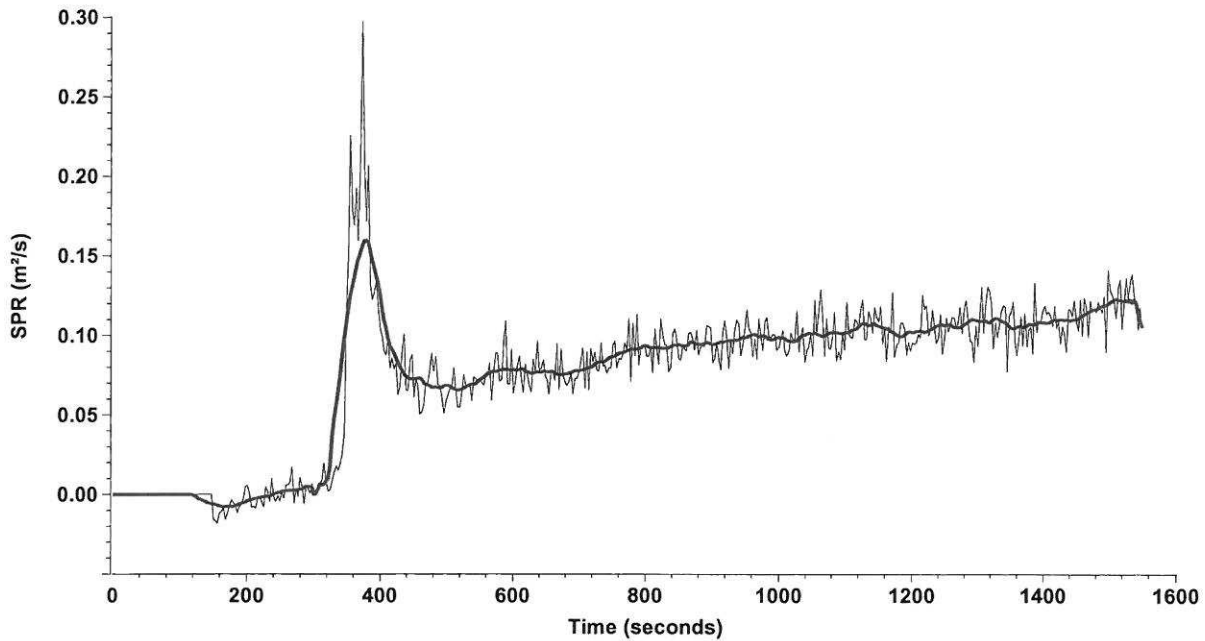
The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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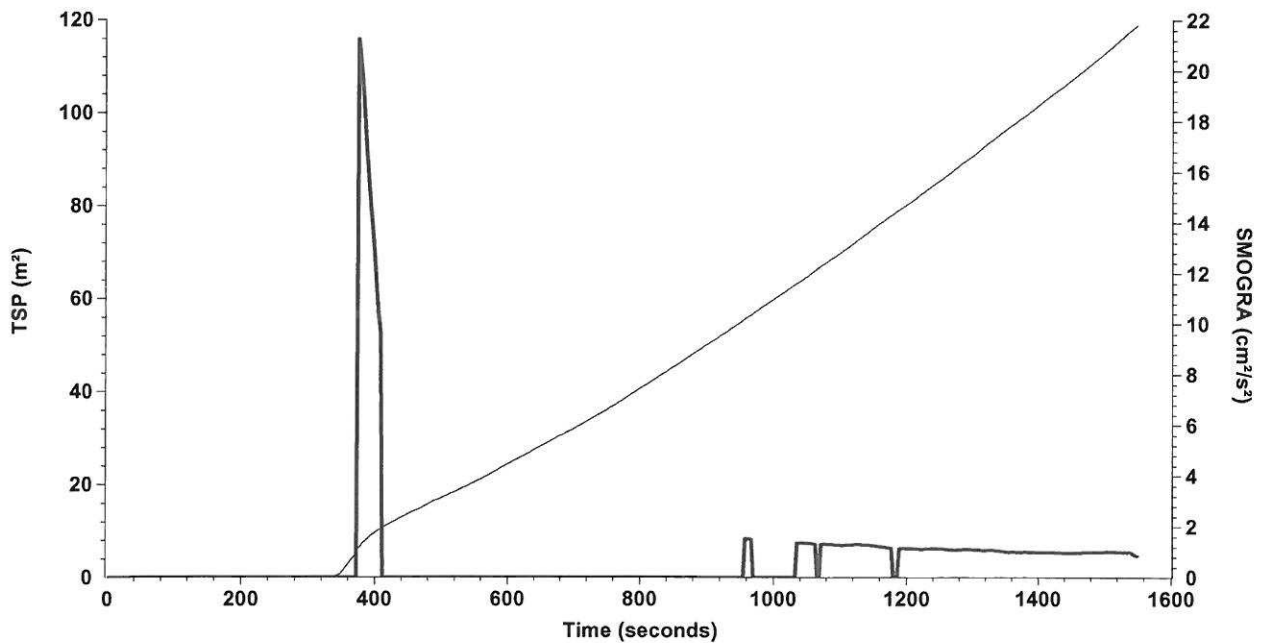
SPR and SPR(60) graph

SPR SPR(60)



TSP and SMOGRA graph

TSP SMOGRA



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