

SBI Test Report

Laboratory name CSTB SBI 2
 Operator Benoit FOREST
 Filename C:\SBICALC\DATA\16050069.CSV
 Report identification es541160209
 Product identification GEOPIETRA

Test		Pre-test conditions		Specimen conditioning	
Standard used	EN 13823:2010	Baseline duct temperature	294.73 K	Method	Not conditioned
Date of test	04/07/2016	Ambient temperature	294.48 K	Time interval	N/A
Date of report	04/07/2016	Ambient pressure	102.471 kPa	Mass 1	N/A
E'	17.2 MJ/m ³	Relative humidity	50%	Mass 2	N/A
Apparatus specifications		Baseline conditions		Temperature	N/A
kt	0.876	Baseline ambient oxygen	20.696%	RH	N/A
kp	1.08	Baseline oxygen	20.961%		
Duct diameter	0.315 m	Baseline carbon dioxide	0.0394%		
O2 calibration delay time	10 s	Baseline smoke	99.95%		
CO2 calibration delay time	8 s				

Specimen information

Thickness	200 mm	Mounting method	none
Density		Joints	none
Surface mass/area		Fixed to substrate?	No
Specimen number	1	Fixing method	N/A
Date of arrival		Substrate	none
		Manufacturer	GEOPIETRA SRL
		Sponsor	GEOPIETRA SRL

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.961%	20.957%	0.003%
CO2	0.039%	0.039%	0.001%
Smoke	99.95%	99.63%	0.003

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 316.80 K at 303 s
 Oxygen rose by 0.05% from baseline of 20.674% at 303 s
 CO2 dropped by 0.02% from baseline of 0.216% at 303 s

Burner details

Burner HRR	29.751 kW
Burner HRR std. dev.	1.053 kW
Burner CO2/O2 ratio	0.616
Burner SPR	0.024 m ² /s
Burner SPR std. dev.	0.004 m ² /s
Burner response time	12 s

Other checks

Minimum duct flow	0.507 m ³ /s
Maximum duct flow	0.613 m ³ /s
No T/C failure	

Classification results

FIGRA(0.2)	threshold not reached
FIGRA(0.4)	threshold not reached
THR(600)	0.5 MJ
SMOGRA	threshold not reached
TSP(600)	12.0 m ²

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

isolant depaisseur160mm

After-test comments