	MeKA Testing laboratory
Operator	Nauris Grandans
Filename	C:\SBICALC\Data\5784\5784-1-1.csv
Report identification	5784-1-1
Product identification	Zero Acoustic spray

Test

Standard used	EN 13823:2020
Date of test	06/05/2021
Date of report	06/05/2021
E'	17.2 MJ/m³

Pre-test conditions

Baseline duct temperature	297.34 K
Ambient temperature	293.87 K
Ambient pressure	100.62 kPa
Relative humidity	33%

Specimen conditioning

Method	Constant mass
Time interval	24 hours
Mass 1	8009 g
Mass 2	8011 g
Temperature	23°C
RH	50%

Apparatus specifications

kt	0.85
kp	1.24
Duct diameter	0.315 m
O2 calibration delay time	12 s
CO2 calibration delay time	9 s

Baseline conditions

Baseline ambient oxygen	20.742%
Baseline oxygen	20.950%
Baseline carbon dioxide	0.0436%
Baseline smoke	100.00%

Specimen information

Thickness	35 mm
Density	
Surface mass/area	
Specimen number	1
Date of arrival	30/04/2021
Mounting method	5.2.2b) in EN 13823:2010
Joints	none
Fixed to substrate?	Yes
Fixing method	none
Substrate	gypsum plasterboard
Manufacturer	
Sponsor	Invisible Acoustic Ceilings Scandinavia Ltd

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.950%	20.947%	0.003%
CO2	0.044%	0.042%	0.002%
Smoke	100.00%	99.63%	0.004

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 320.59 K at 303 s
Oxygen rose by 0.05% from baseline of 20.675% at 303 s
CO2 dropped by 0.02% from baseline of 0.211% at 303 s

Burner details

Auxiliary Burner HRR	29.497 kW
Auxiliary Burner HRR std. dev.	0.554 kW
Burner CO2/O2 ratio	0.610
Auxiliary Burner SPR	0.030 m²/s
Auxiliary Burner SPR std. dev.	0.004 m²/s
Burner response time	9 s

Other checks

Minimum duct flow	0.540 m³/s
Maximum duct flow	0.630 m³/s

No T/C failure

Classification results

FIGRA(0.2)	72.1 W/s at 387 s
FIGRA(0.4)	66.3 W/s at 414 s
THR(600)	4.4 MJ
SMOGRA	2.6 m²/s² at 744 s
TSP(600)	41.7 m²

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 Base material - Visible zero carbon acoustic system (recycled tissue paper and adhesive). Cover material - Invisible smooth extra / fade plus (perlite based acoustic plaster).

After-test comments

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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Alternative smoke results

Smoke test filename	C:\SBICALC\SMOKE\21030602.CSV
Main burner SPR	0.070 m²/s
Main burner SPR std. dev.	0.006 m²/s

Alternative classification results

SMOGRA	threshold not reached
TSP(600)	20.7 m²
Smoke production class	s1