

Cable Flame Spread Test Report

Laboratory EFECTIS ERA
 Operator
 Filename
 Product description DENEME NUMUNE 2
 Report name DENEME NUMUNE 2
 Date of report 5 August 2021

Test		Pre-test conditions		Specimen conditioning	
Standard	EN 50399	Baseline ambient temp.	305.36 K	Conditioned?	No
Burner HRR	20.5 kW	Ambient pressure	101.004 kPa	Temperature	N/A
Date of test	5 August 2021	Relative humidity	54%	RH	N/A
E'	17.2 MJ/m ³			Method	N/A
Apparatus specifications		Baseline conditions		Time interval	N/A
kt	0.86	Baseline ambient oxygen	20.412%	Mass 1	N/A
kp	1.08	Baseline oxygen	20.955%	Mass 2	N/A
Duct diameter	0.4 m	Baseline carbon dioxide	0.0456%		
O2 delay time	15 s	Baseline smoke	99.98%		
CO2 delay time	9 s	Baseline duct temperature	305.07 K		

Specimen information

Cable diameter	24.2 mm	Specimen number	
Largest conductor size		Date of arrival	4 August 2021
Non-metallic volume		Manufacturer	
Number of cables	7	Sponsor	
Number of layers		Mounting method	single cable
Number of burners		Backing board fitted?	No
Burner gas	Propane		

Test validity information

Baseline drifts						Other checks	
	0 - 30 s	270 s	Change	Criteria	In limits?		
HRR	0.0 kW	0.3 kW	0.3 kW	<=2 kW	Yes	Flame application time	1200 s
Smoke	99.98%	99.93%	0.05%	<=2%	Yes	Minimum duct flow	0.846 m ³ /s
						Maximum duct flow	1.153 m ³ /s

Classification results

Damage length	0.41 m	Peak SPR(60)	0.01 m ² /s at 1500 s	Potential classification	
Peak HRR(30)	5.1 kW at 546 s	TSP(1200)	6.9 m ²	Class	B2ca
THR(1200)	3.5 MJ	FDP flaming <= 10s?	Yes	Smoke production	s1
FIGRA	18.7 W/s at 552 s	FDP flaming > 10s?	No	Flaming droplets/particles d1	

Recorded events Falling specimen parts? No; Smoke not entering hood? No

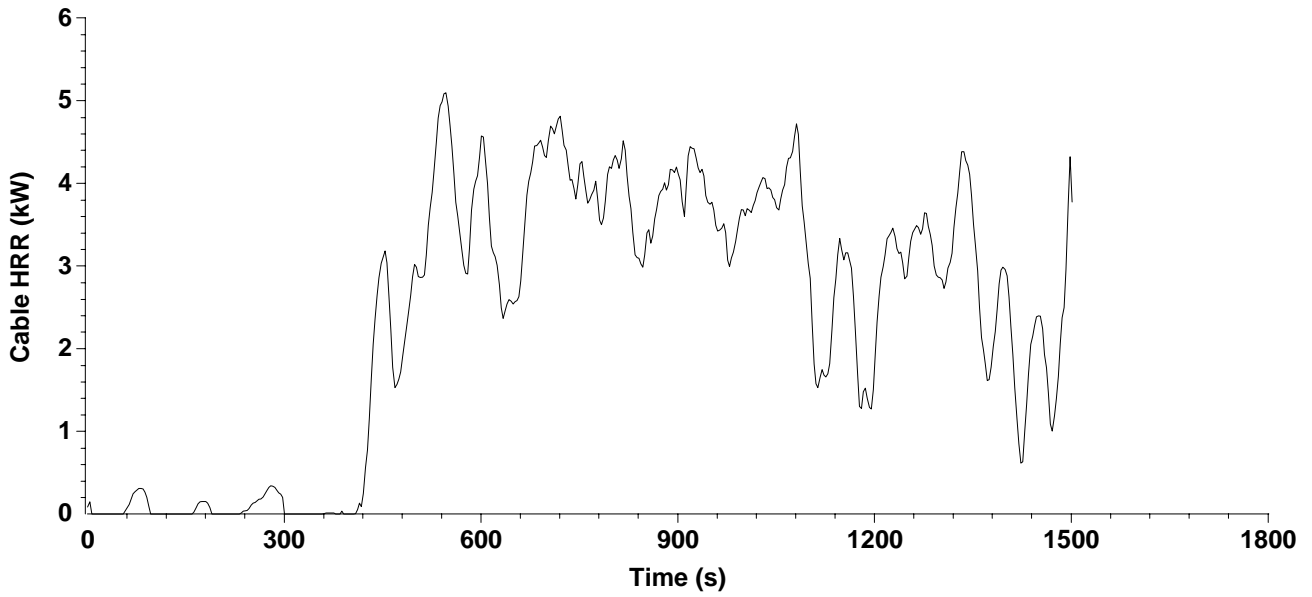
Pre-test comments

After-test comments 1040 SN DE 3 SN DAMLAMA

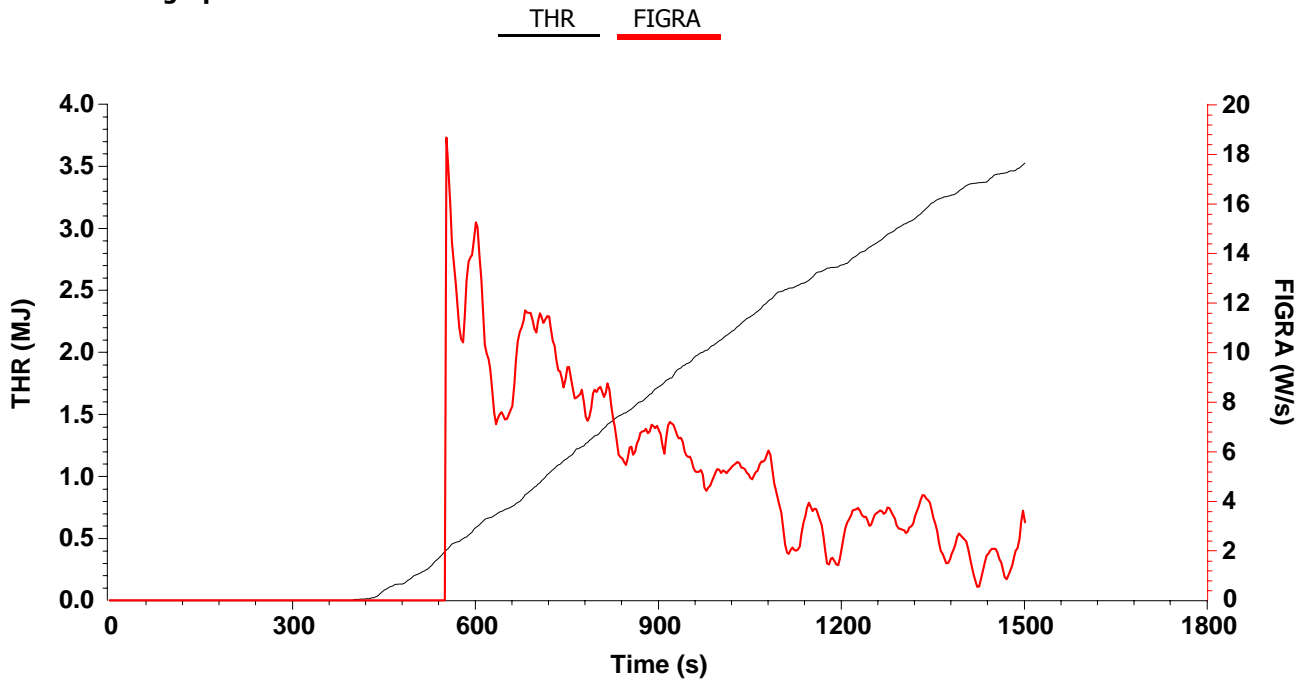
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Cable HRR(30) graph



THR and FIGRA graph

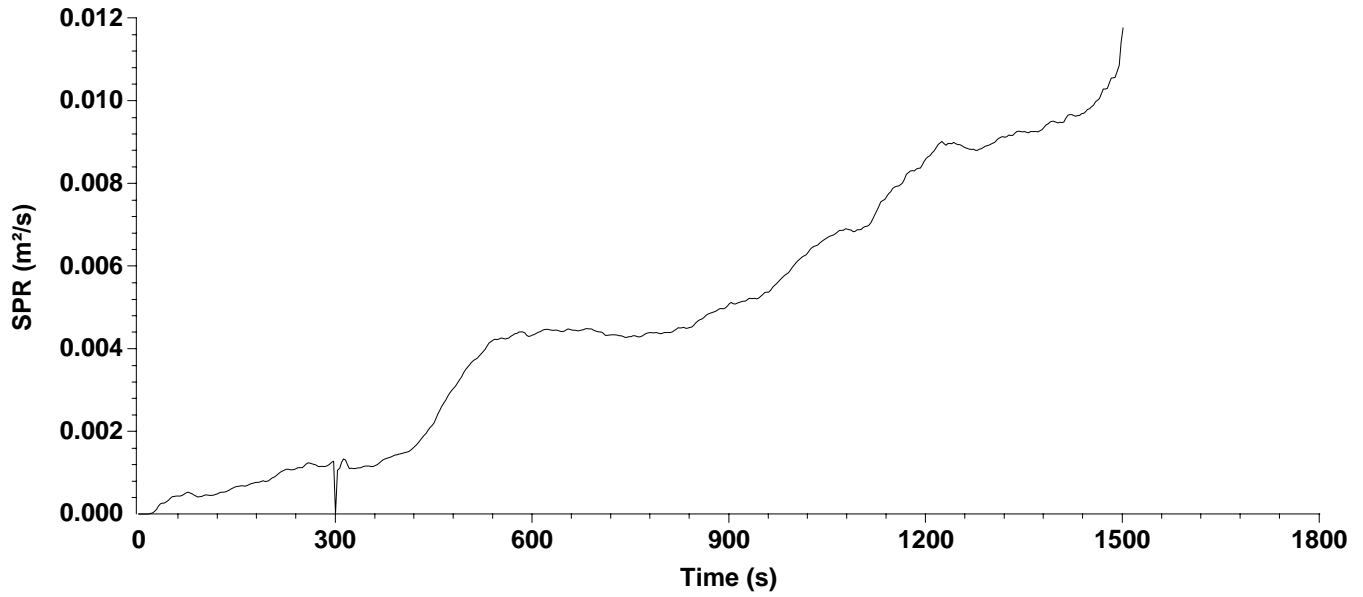


The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

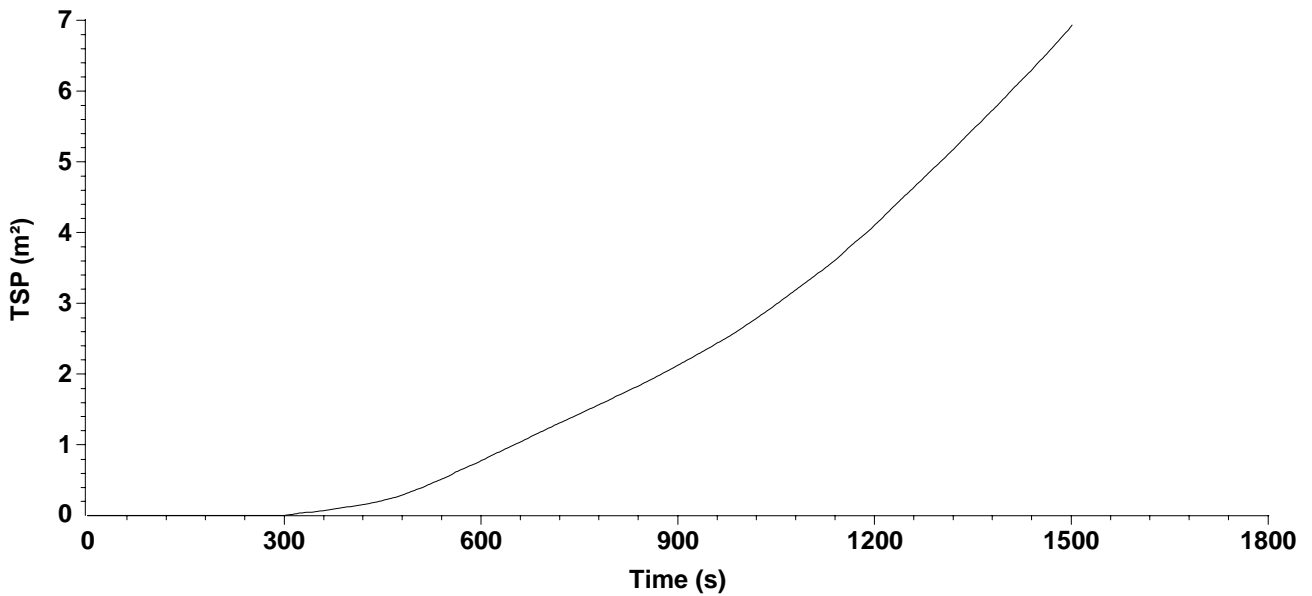
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SPR(60) graph



TSP graph

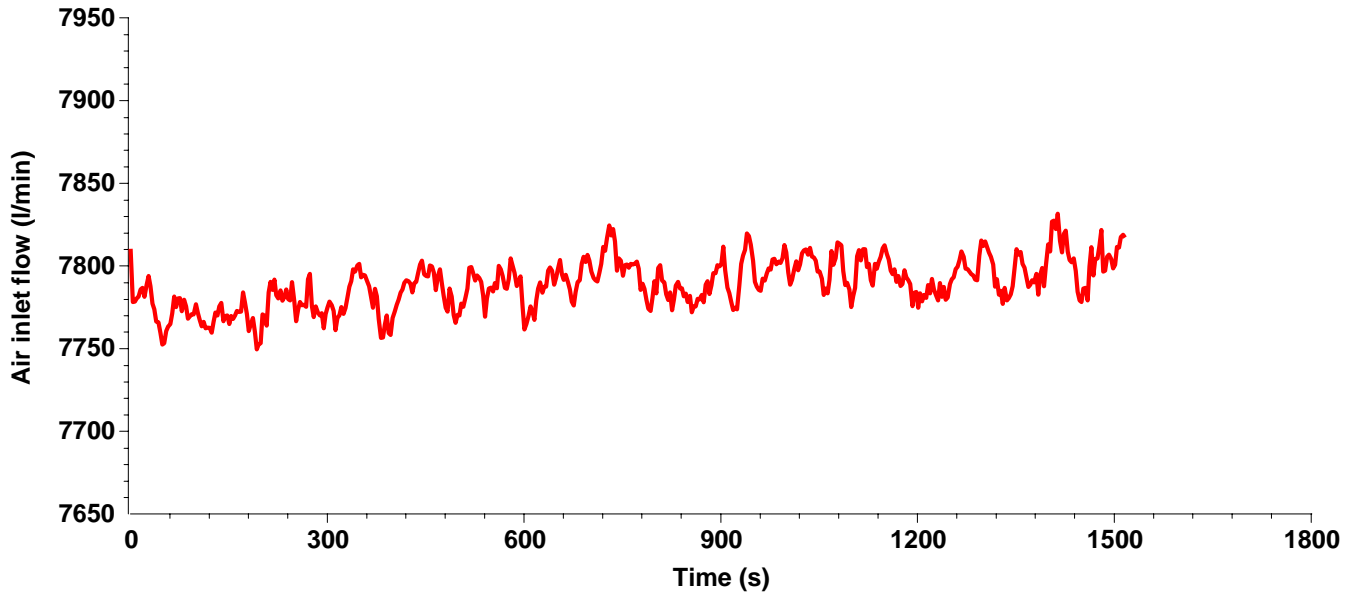


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Smoothed Air Inlet Flow graph



Flows

Minimum inlet air flow	7691.9 l/min
Maximum inlet air flow	7915.3 l/min
Average inlet air flow	7789.1 l/min
Minimum smoothed inlet air flow	7749.5 l/min
Maximum smoothed inlet air flow	7831.6 l/min
Average smoothed inlet air flow	7788.9 l/min
