PN-EN 13823 - Report No. 3284 of the day 2025-11-07

Test method /norm	PN-EN 13823:2020-11
Material/product	**1. Aluwood FR**
Backing/fastening	GK
Manufacturer/supplier	PVH Production
Sponsor	PVH Production
Testing laboratory name	Sychta Laboratorium
Operator	Andrzej Sychta
Set of findings	1. Aluwood FR.txt
Comment/ observation	preliminary classification - B-s1,d0

Special fire-retardant panels are available upon request.

For these specific requests please contact your local sales office for further information and pricing details.

Data of specimen	
Number	1
Conditioning according to	PN-EN 13823
Environmental conditions	
Environmental temperature	22,5 °C
Barometric pressure	1010 hPa
Humidity	40 %

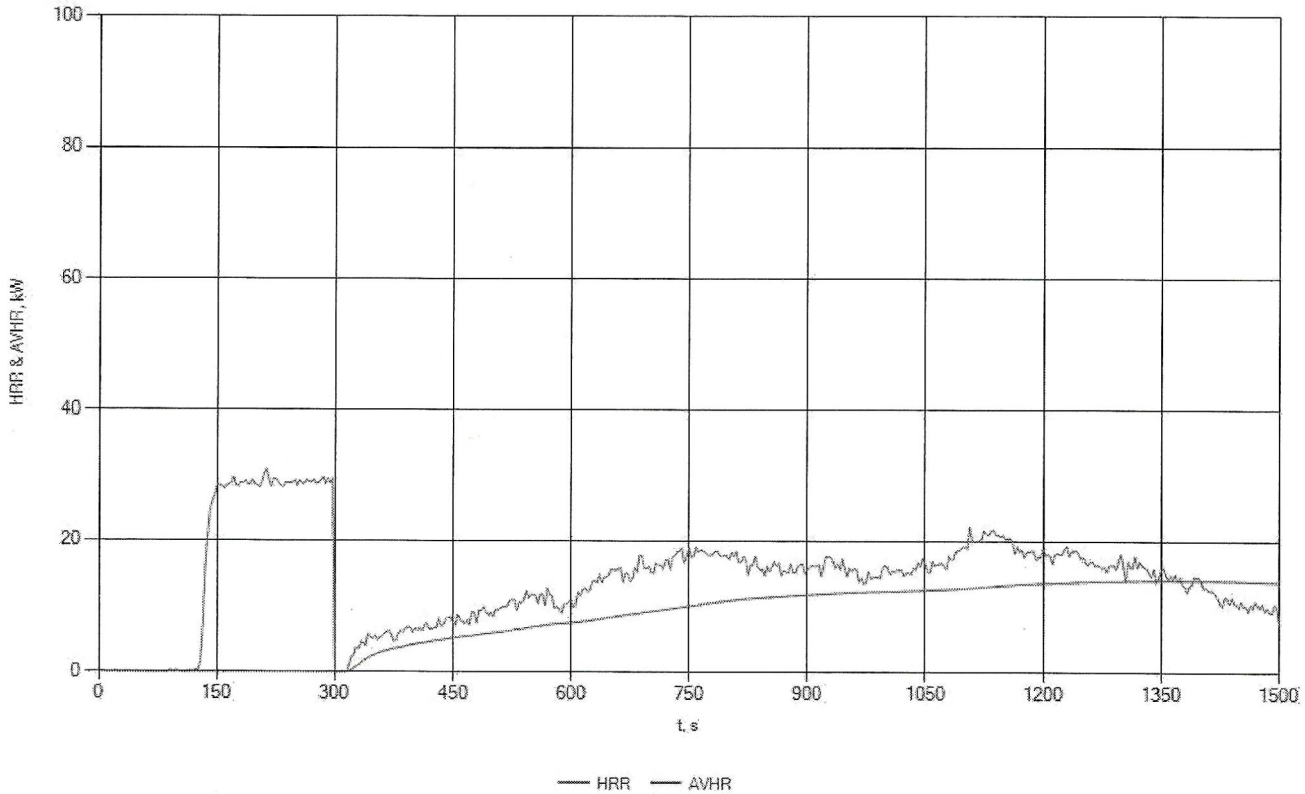
Data of apparatus	
Exhaust flow rate	0,6 m3/s
Exhaust diameter	0,315 m
Calibration constant	0,818
Oxygen consumption constant	17200 kJ/m3
Analyzer delay	12 s
Current control	YES

General	
Duration of the test	1560 s
Termination of the test according to	PN-EN 13823
Smoke	
Maximum of light attenuation Smax	8,83 %
Maximum smoke production rate SPRmax	0,1500 m2/s
Total smoke production TSP	124,9 m2
TSP600s, m2	48,7 m2
SMOGRA	2,6 m2/s2
Additional observation	
LFS>edge	NO
Flaming particles or droples	d0

Heat release rate HRR	
Maximum HRR	22,22 kW
Average heat release rate MARHE	14,09 kW
Total HRR (THR)	16569,0 kJ
THR600s	7076,8 kJ
FIGRA0.2	83 W/s
FIGRA0.4	66 W/s
Volume concentration	
Maximum CO2	0,213 %
Maximum CO	0,0000 %
Oxygen consumption	0,58 %

Graphs depicting the course of the measurement

Graphs of HRR i AVHR



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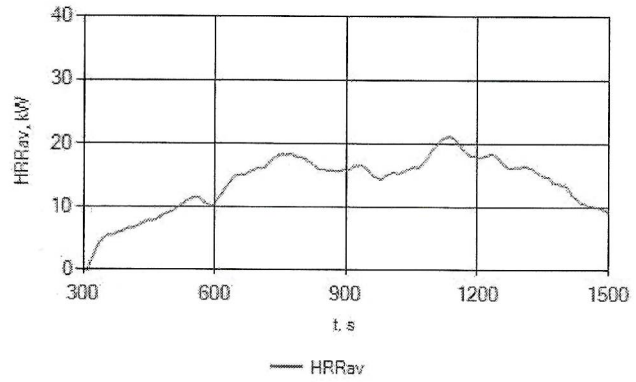
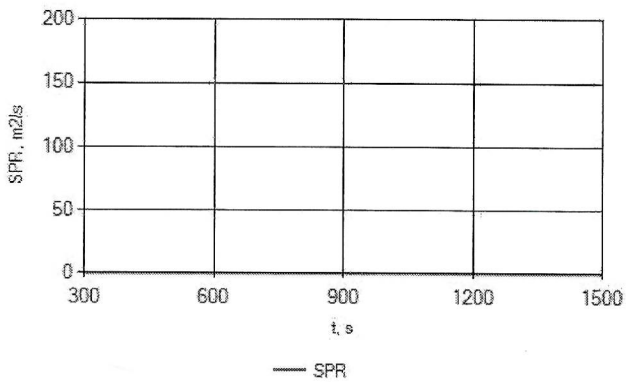
Additional graphs

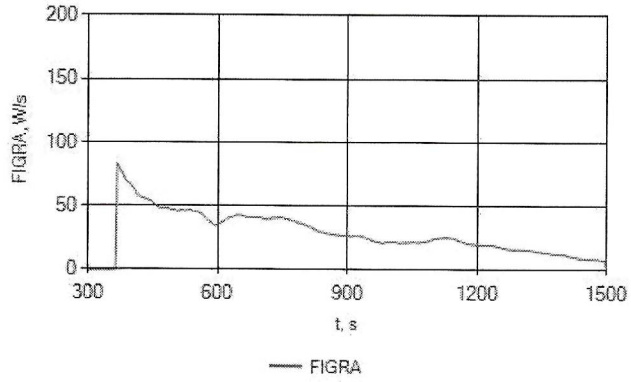
HRRav



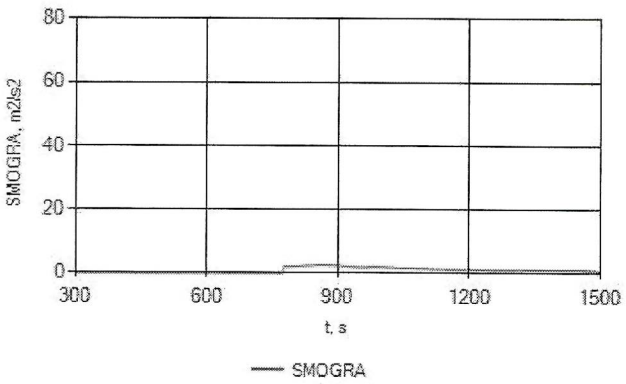
Average SPR



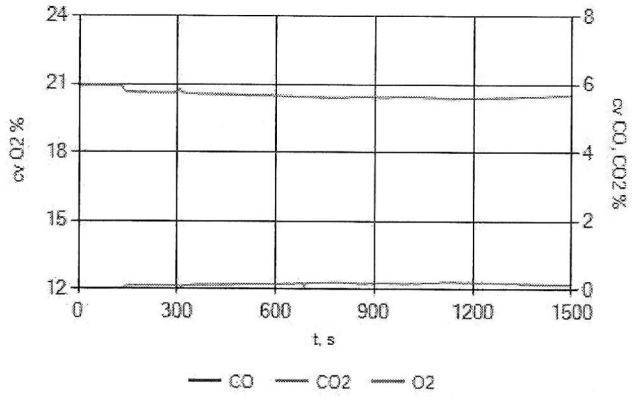
FIGRA



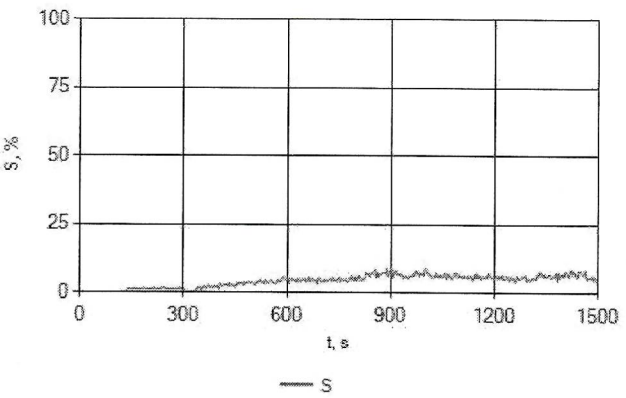
SMOGRA



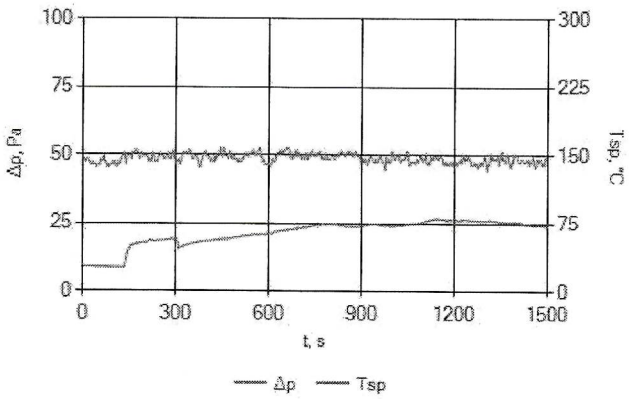
Volume concentration cv CO, CO2, O2



Light attenuation S



Gas temperature at orifice Tsp and the orifice pressure differential p



Heat THR