

Construction products

General information

Date of test 04/05/2023
Report identification number/file ENL-23-000014_1.xls
Operator LEG

Specimen

Sponsor Sign Again
Description Sign Again

Standard used EN 13823:2020

Fire attack

Start of test [s] 300
Burner exposure time [s] 1200
Burner exposure level [kW] 31,6 Std 0,28

Results

Heat release related

		t-t0 [s]	t[s]
Peak HRRav (t<t0+600s)	[kW]	63,7	201
Peak HRRav (t<t0+900s)	[kW]	63,7	201
Peak HRRav (t<t0+1200s)	[kW]	63,7	201
(t0 = 300s)			

Figra0.2 MJ	[W/s]	355	
Figra0.4 MJ	[W/s]	355	D
Figra	[W/s]	355	D
Figra0.2 MJ: Corresponding HRRav	[kW]	51,2	144
Figra0.4 MJ: Corresponding HRRav	[kW]	51,2	144
t(HRRav >= 3 kW)		30	330
(HRRav + t(THRta)) >= 0.2 MJ	[kW]	11,78	54
(HRRav + t(THRta)) >= 0.4 MJ	[kW]	17,7	69

THRta (t0+600s) [MJ] 18,77 D or worse

THRta (t0+900s) [MJ] 21,6

THRta (t0+1200s) [MJ] 23,3

(t0 = 300s) Estimated class: D or worse

Lateral flame spread

Till long wing end of specimen No No = not to long wing end of specimen

Estimated class: D or worse

Smoke production related

		t-t0 (s)	t(s)
Peak SPRav (t<t0+600s)	[m²/s]	4,77	144
Peak SPRav (t<t0+900s)	[m²/s]	4,77	144
Peak SPRav (t<t0+1200s)	[m²/s]	4,77	144
(t0 = 300s)			

Smogra max [m²/s²] 389,9 s3

at SPRav [m²/s] 3,98 102 402

t(SPRav >= 0.1 m²/s) 21 321

t(TSPta >= 6 m²) 42 342

TSPta (t0_t0+600s) [m²] 1208 s3

TSPta (t0_t0+900s) [m²] 1296

TSPta (t0_t0+1200s) [m²] 1337

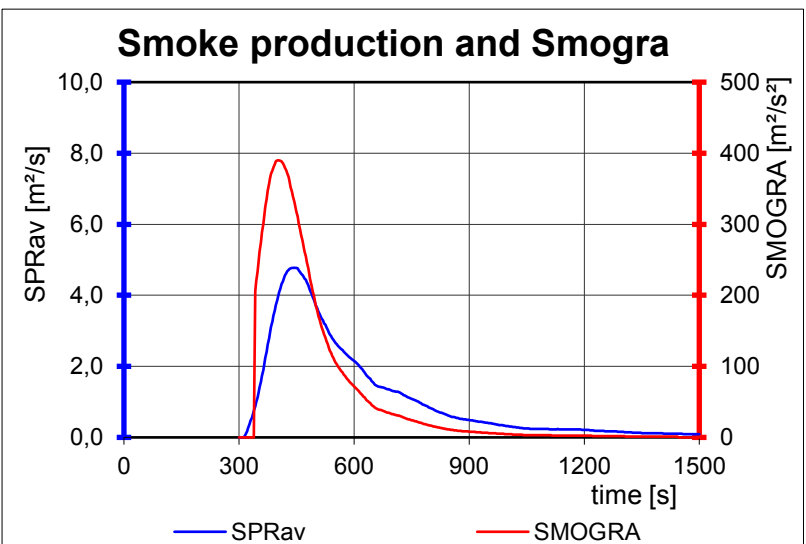
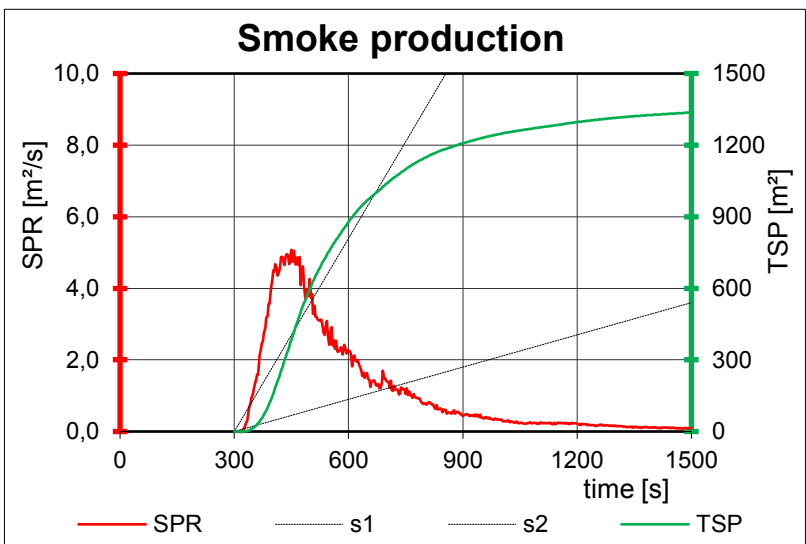
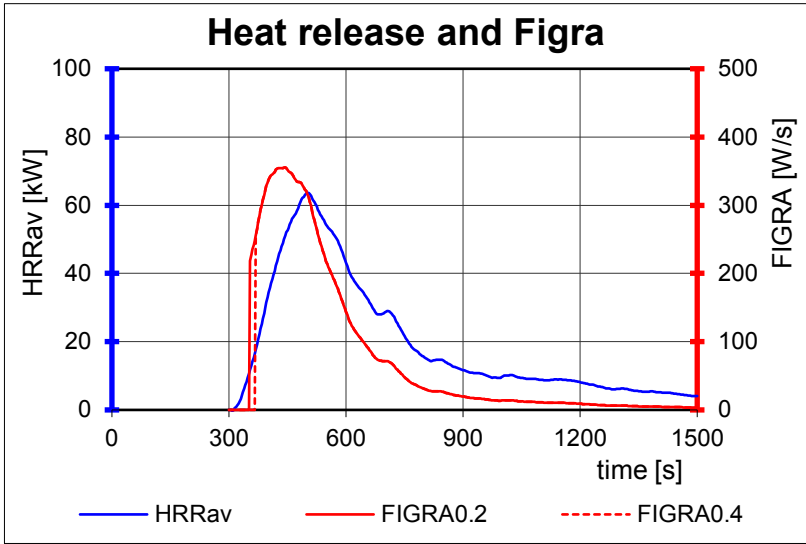
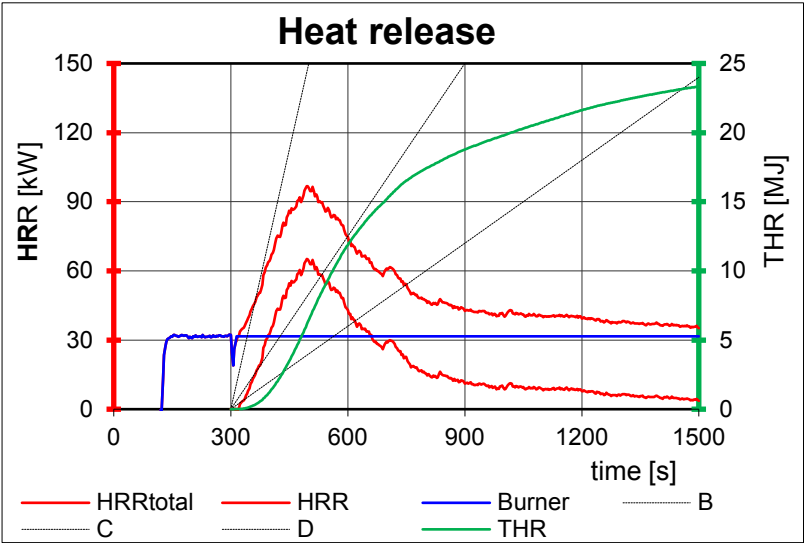
(t0 = 300s) Estimated class: s3

Flaming droplets/particles related

Flaming droplets/particles

FDP (t0_t0+600s) Yes No = no flaming droplets/particles
FDP (t0_t0+600s) F>10s Yes No = no flaming droplets/particles F>10s
(not d0 or d1)

Estimated class: d2



Classification criteria	A1*	A2-B	C	D
FIGRA _{0,2MJ}	[W/s] <= 20	120		
FIGRA _{0,4MJ}	[W/s] <=		250	750
THR _{600s}	[kW] <= 4	7,5	15	
	s1, d0	s1	s2	s3
SMOGRA	[m²/s²] <=	30	180	not s1/s2
TSP _{600s}	[m²] <=	50	200	not s1/s2

* External non-substantial component having PCS > 2,0 MJ/kg and a PCS ≤ 2,0 MJ/m²

Final classification assessment is based on

3 repetitive SBI tests and other tests:

- A1: EN ISO 1182 or EN ISO 1716

- A2: EN ISO 1182 or EN ISO 1716

- B, C, D: EN ISO 11925-2