

Construction products

General information

Date of test 20/04/2022  
Report identification number/file ENL-22-000425\_1.xls  
Operator KSB

Specimen

Sponsor Allshield/INpakt  
Description Paneel 1 Test 1

Standard used EN 13823:2020

Fire attack

Start of test [s] 300  
Burner exposure time [s] 1200  
Burner exposure level [kW] 30.6 Std 0.21

Results

Heat release related

	[kW]	t-10 [s]	t [s]
Peak HRRav (t<t0+600s)	0.4	372	672
Peak HRRav (t<t0+900s)	0.4	372	672
Peak HRRav (t<t0+1200s) (t0 = 300s)	0.4	372	672

Figra0.2 MJ	[W/s]	0	B or better
Figra0.4 MJ	[W/s]	0	B or better
Figra	[W/s]	0	B or better

Figra0.2 MJ: Corresponding HRRav	[kW]	n/a	n/a	n/a
Figra0.4 MJ: Corresponding HRRav	[kW]	n/a	n/a	n/a

t(HRRav >= 3 kW)			n/a	n/a
(HRRav + t(THRta)) >= 0.2 MJ	[kW]	n/a	n/a	n/a
(HRRav + t(THRta)) >= 0.4 MJ	[kW]	n/a	n/a	n/a

THRta (t0+600s)	[MJ]	0.05	B or better
THRta (t0+900s)	[MJ]	0.0	
THRta (t0+1200s) (t0 = 300s)	[MJ]	0.1	Estimated class: B or better

Lateral flame spread

Till long wing end of specimen	No	No = not to long wing end of specimen	Estimated class: B or better
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Smoke production related

	[m²/s]	t-10 (s)	t (s)
Peak SPRav (t<t0+600s)	0.02	543	843
Peak SPRav (t<t0+900s)	0.02	900	1200
Peak SPRav (t<t0+1200s) (t0 = 300s)	0.03	1167	1467

Smogra max	[m²/s²]	0.0	s1
at SPRav	[m²/s]	n/a	n/a

t(SPRav >= 0.1 m²/s)		n/a	n/a
t(TSPta >= 6 m²)		591	891

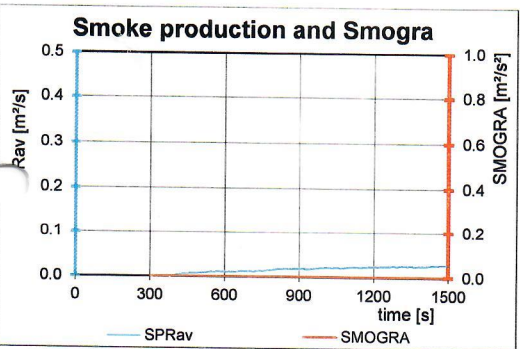
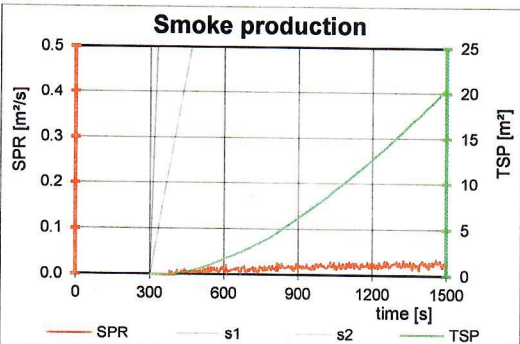
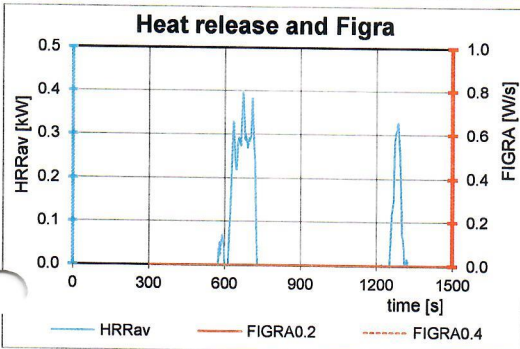
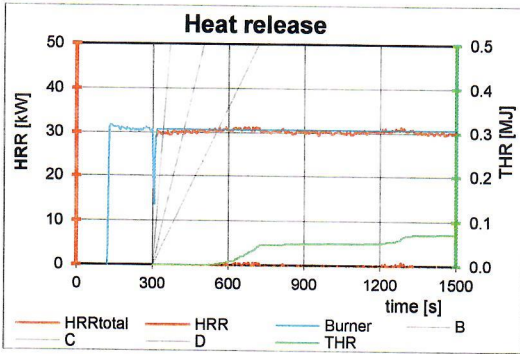
TSPta (t0_t0+600s)	[m²]	6	s1
TSPta (t0_t0+900s)	[m²]	13	
TSPta (t0_t0+1200s) (t0 = 300s)	[m²]	20	Estimated class: s1

Flaming droplets/particles related

Flaming droplets/particles

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

Estimated class: d0



Classification criteria		A1*	A2-B	C	D
FIGRA <sub>0.2MJ</sub>	[W/s] <=	20	120		
FIGRA <sub>0.4MJ</sub>	[W/s] <=			250	750
THR <sub>300s</sub>	[kW] <=	4	7.5	15	
		<b>s1, d0</b>	<b>s1</b>	<b>s2</b>	<b>s3</b>
SMOGRA	[m²/s²] <=		30	180	not s1/s2
TSP <sub>600s</sub>	[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

SBI test results