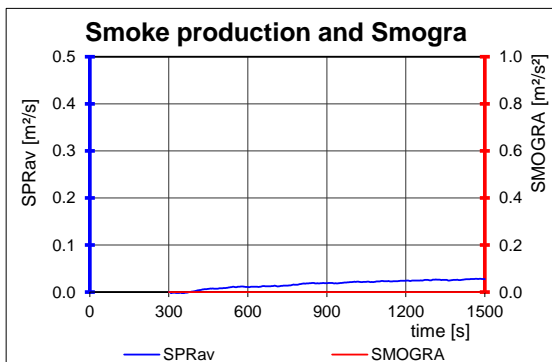
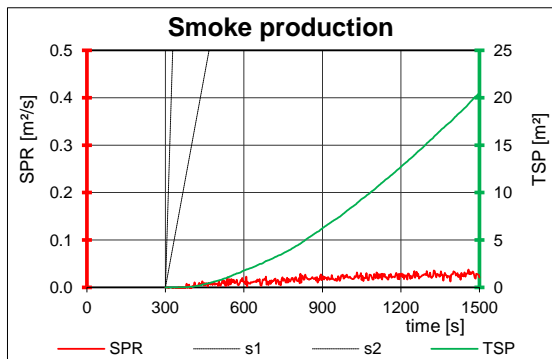
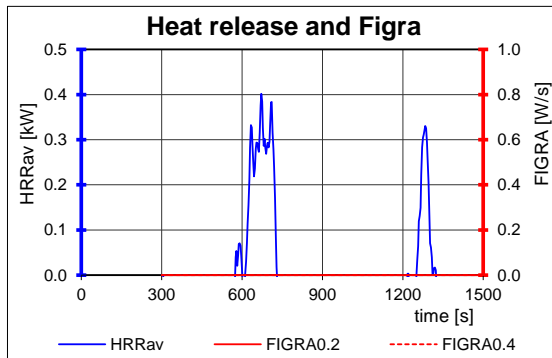
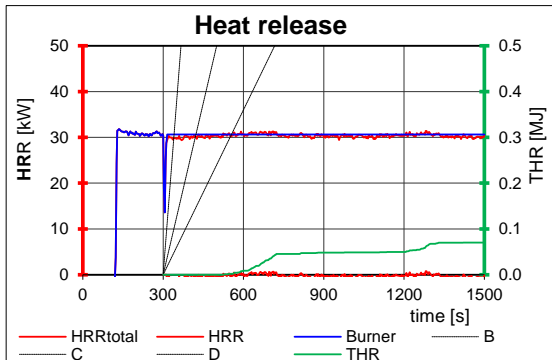


Construction products



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 [m ² /s ²] <=		30	180	not s1/s2
TSP _{600s} [m ²] <=		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 repetative 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

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

Results

Heat release related

	[kW]	t-t0 [s]	t[s]
Peak HRR _{av} (t<t0+600s)	0.4	372	672
Peak HRR _{av} (t<t0+900s)	0.4	372	672
Peak HRR _{av} (t<t0+1200s)	0.4	372	672
(t0 = 300s)			

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

Figra [W/s] 0 B or better

Figra0.2 MJ: Corresponding HRR_{av} [kW] n/a n/a n/a
 Figra0.4 MJ: Corresponding HRR_{av} [kW] n/a n/a n/a

t(HRR_{av} >= 3 kW) n/a n/a n/a
 (HRR_{av} + t(THR_{ta})) >= 0.2 MJ [kW] n/a n/a n/a
 (HRR_{av} + t(THR_{ta})) >= 0.4 MJ [kW] n/a n/a n/a

THR_{ta} (t0+600s) [MJ] 0.05 B or better

THR_{ta} (t0+900s) [MJ] 0.0
 THR_{ta} (t0+1200s) [MJ] 0.1
 (t0 = 300s)

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

Smoke production related

	[m ² /s]	t-t0 (s)	t(s)
Peak SPR _{av} (t<t0+600s)	0.02	543	843
Peak SPR _{av} (t<t0+900s)	0.02	900	1200
Peak SPR _{av} (t<t0+1200s)	0.03	1167	1467
(t0 = 300s)			

Smogra max [m²/s²] 0.0 s1

at SPR_{av} [m²/s] n/a n/a n/a

t(SPR_{av} >= 0.1 m²/s) n/a n/a n/a
 t(TSP_{ta} >= 6 m²) 591 891

TSP_{ta} (t0_t0+600s) [m²] 6 s1

TSP_{ta} (t0_t0+900s) [m²] 13
 TSP_{ta} (t0_t0+1200s) [m²] 20
 (t0 = 300s)

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

Estimated class: d0

SBI Test Results