

Construction products

General information

Date of test 31/08/2018
 Report identification number/file ENL-17-000592_4.xls
 Operator sec

Specimen

Sponsor ABNAMRO
 Description Textielstuc

Standard used EN 13823:2014

Fire attack

Start of test [s] 300
 Burner exposure time [s] 852
 Burner exposure level [kW] 31.1 Std 0.43

Results

Heat release related

| | [kW] | t-t0 [s] | t [s] |
|-------------------------|------|----------|-------|
| Peak HRRav (t<t0+600s) | 8.7 | 42 | 342 |
| Peak HRRav (t<t0+900s) | 8.7 | 42 | 342 |
| Peak HRRav (t<t0+1200s) | 8.7 | 42 | 342 |
| (t0 = 300s) | | | |

| | | | |
|----------------------------------|--------------|-----------|----------|
| Figra0.2 MJ | [W/s] | 192 | |
| Figra0.4 MJ | [W/s] | 98 | C |
| Figra | [W/s] | 98 | C |
| Figra0.2 MJ: Corresponding HRRav | [kW] | 8.6 | 45 |
| Figra0.4 MJ: Corresponding HRRav | [kW] | 6.8 | 69 |

| | | | |
|------------------------------|------|------|-----|
| t(HRRav >= 3 kW) | | 18 | 318 |
| (HRRav + t(THRta)) >= 0.2 MJ | [kW] | 8.65 | 45 |
| (HRRav + t(THRta)) >= 0.4 MJ | [kW] | 6.8 | 69 |

| | | | |
|-------------------------|-------------|-------------|--------------------|
| THRta (t0+600s) | [MJ] | 1.41 | B or better |
| THRta (t0+900s) | [MJ] | 0.0 | |
| THRta (t0+1200s) | [MJ] | 0.0 | |
| (t0 = 300s) | | | |
| Estimated class: | | | C |

Lateral flame spread

Till long wing end of specimen No No = not to long wing end of specimen
Estimated class: C

Smoke production related

| | [m ² /s] | t-t0 (s) | t (s) |
|-------------------------|---------------------|----------|-------|
| Peak SPRav (t<t0+600s) | 0.28 | 78 | 378 |
| Peak SPRav (t<t0+900s) | 0.28 | 78 | 378 |
| Peak SPRav (t<t0+1200s) | 0.28 | 78 | 378 |
| (t0 = 300s) | | | |

| | | | |
|-----------------------------------|--------------------------------------|-------------|-----------|
| Smogra max | [m²/s²] | 44.4 | s2 |
| at SPRav | [m ² /s] | 0.24 | 54 |
| t(SPRav >= 0.1 m ² /s) | | 27 | 327 |
| t(TSPta >= 6 m ²) | | 54 | 354 |

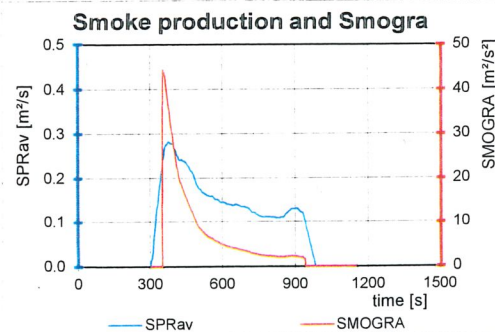
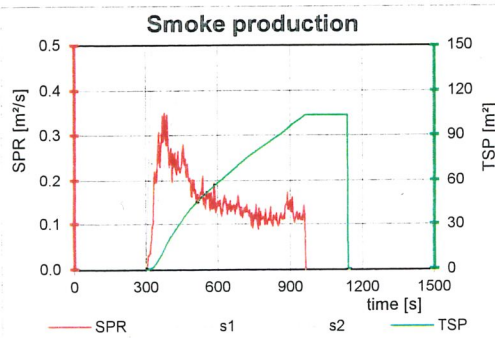
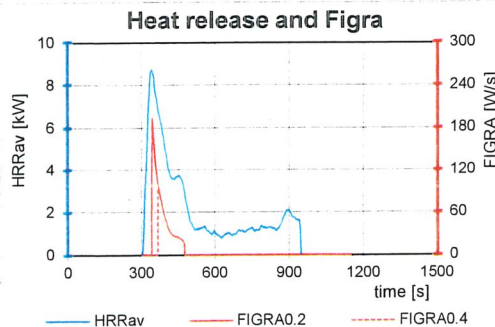
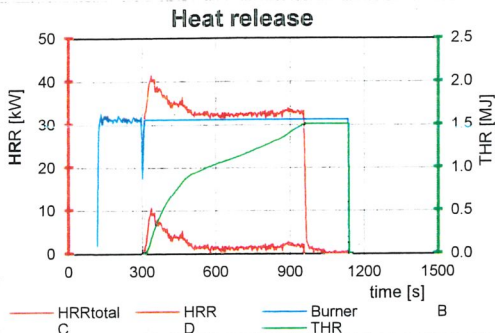
| | | | |
|---------------------------|------------------------|-----------|-----------|
| TSPta (t0_t0+600s) | [m²] | 96 | s2 |
| TSPta (t0_t0+900s) | [m ²] | 0 | |
| TSPta (t0_t0+1200s) | [m ²] | 0 | |
| (t0 = 300s) | | | |
| Estimated class: | | | s2 |

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



| 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 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