



TEST REPORT

No. 22/P103

Job No.: 415500435

No. of pages: 3 + 2 app.

No. of copies: 2

Copy No.: 1

Name of test:

Reaction to fire of building products - SBI test

Material/product/construction:

FIBERACOUSTIC 450, roll no.: 2521 345 12 003-01

Sponsor:

Fibertex Nonwovens, a.s.
Průmyslová 2179/20
CZ-568 02 Svitavy
Czech Republic

Manufacturer:

Fibertex Nonwovens, a.s.
Průmyslová 2179/20
CZ-568 02 Svitavy
Czech Republic

Test specimens delivery date:

14th February 2022

Laboratory name:

Fire technical laboratory

Location:

Pražská 16, Praha 10 – Hostivař

Date of test:

12th April 2022

Date of issue:

13th April 2022

Reviewed by:

Vít Slaboch

Technical manager of laboratory



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1. Test assignment

The test has been done on the base of order issued on 10th February 2022.

2. Test methods

ČSN EN 13823 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.

3. Test specimens

The test specimens were delivered by sponsor.

Marking of the test specimens in laboratory: 22/P103

Composition: Undeclared

Description of test specimen: Black nonwoven textile of thickness 2,5 mm. Mass per unit area approx. 450 g/m². Face side and bac side are identical. Test specimens consist from textile fixed on supporting metal frame without substrate.

4. Test equipment

- 1) Test device according to ČSN EN 13823 (Reg. No. 703)
- 2) Yardstick (Reg. No. 2)
- 3) Digital stop watch (Reg. No. 22)
- 4) Mass flow meter of propane (Reg. No. 151)
- 5) Thermometer / relative humidity meter (Reg. No. 5)
- 6) Digital anemometer (Reg. No. 67)
- 7) Digital barometer (Reg. No. 12)
- 8) AD converter (Reg. No. 45)
- 9) Micro pressure gauge (Reg. No. 163)
- 10) Weighing scale (Reg. No. 50)
- 11) Coated thermocouple 0,5 mm (Reg. No. 159)
- 12) Coated thermocouple 0,5 mm (Reg. No. 160)
- 13) Coated thermocouple 0,5 mm (Reg. No. 161)
- 14) Coated thermocouple 1,5 mm (Reg. No. 21)

5. Test results and conclusion

Conditioning: From 14th February 2022 according to ČSN EN 13238



| Test specimen no. | 1 | 2 | 3 | Ø | Expanded uncertainty |
|--|-------|-------|-------|------|----------------------|
| Date of test | 04-12 | 04-12 | 04-12 | | |
| LFS < edge | yes | yes | yes | yes | (-) |
| FIGRA _{0,2 MJ} [W/s] | 0 | 0 | 0 | 0 | (-) |
| FIGRA _{0,4 MJ} [W/s] | 0 | 0 | 0 | 0 | (-) |
| THR _{600 s} [MJ] | 0,3 | 0,5 | 0,5 | 0,4 | 0,1 |
| SMOGRA [m ² /s ²] | 0 | 0 | 0 | 0 | (-) |
| TSP _{600 s} [m ²] | 8,7 | 11,9 | 10,1 | 10,2 | 1,9 |
| Flaming droplets/particles | no | no | no | no | (-) |
| Time of flaming [s] | (-) | (-) | (-) | (-) | (-) |

6. Measurement uncertainty

The mentioned expanded uncertainties are obtained by multiplying the standard uncertainties by a coverage factor $k=2$, which corresponded to a level of confidence of 95 %. Standard uncertainties have been determined in accordance with document EA - 4/02 M.

7. Declaration

The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing. The test report shall be reproduced in full only. Given that, the samples were provided by the sponsor, the results relate to the samples as it were received

Distribution of test reports:

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List of appendixes:

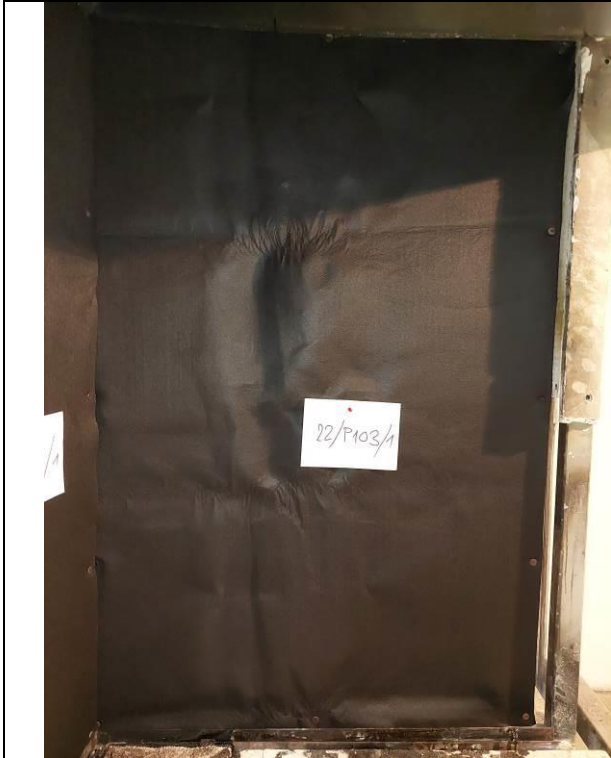
Appendix No. 1: The photograph of the exposed surface of the test specimen

Appendix No. 2: The graphs of measured and calculated values

END OF TEST REPORT



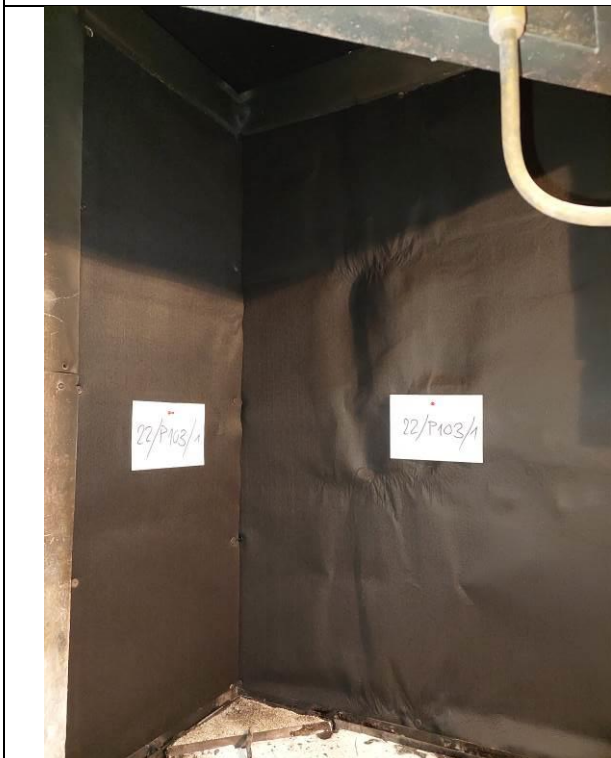
Photograph of the exposed surface of long wing



Photograph of the exposed surface of short wing



Photograph of the exposed surface taken from the opposite of corner line



Photograph of the exposed surface after the test



