



CENTRUM STAVEBNÍHO INŽENÝRSTVÍ a.s.

Zkušebna fyzikálních vlastností materiálů, konstrukcí a budov - Praha
Zkušební laboratoř č. 1007.4 akreditovaná ČIA dle ČSN EN ISO/IEC 17025
Pražská 16, 102 00 Praha 10 Hostivař

TEST REPORT

Nr. 14/762/P483



Job Nr.: Z-14/347/P173

Nr. of pages: 3 + 2 app.

Nr. of copies: 2

Copy Nr.: 1

Name of test:

Reaction to fire of building products - SBI test

Material/product/construction:

Window / door PVC profiles VEKA Softline 82

Sponsor:

VEKA POLSKA Sp. z o.o.
ul. Sobieskiego 71
PL 96-100 Skierniewice

Manufacturer:

VEKA POLSKA Sp. z o.o.
ul. Sobieskiego 71
PL 96-100 Skierniewice

Test specimens delivery date:

3rd November 2014

Workplace:

Fire technical laboratory

Location:

Pražská 16, Praha 10 – Hostivař

Date of test:

29th - 30th December 2014

Date of issue:

9th January 2015

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fire technical laboratory



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1. Test assignment

The test has been done on the base of order issued on 2014-11-03.

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: 14/P483/1-3

Composition: PVC

Description of test specimen: White PVC profile (profile Nr. 105.380) of width 125 mm. Maximum wall thickness 3,5 mm. Weight of profile 2,59 kg/m. The test specimen was assembled from vertically oriented profiles placed on standard substrate according to ČSN EN 13238 - paper faced gypsum plasterboard of thickness 12 mm. Total thickness of the test specimen is 83 mm. Total weight of test specimen is 58,2 kg.

4. Test equipment

- 1) Test device according to ČSN EN 13823 (Reg. Nr. 703)
- 2) Yardstick (Reg. Nr. 2)
- 3) Digital stop watch (Reg. Nr. 22)
- 4) Mass flow meter of propane (Reg. Nr. 151)
- 5) Thermometer / relative humidity meter (Reg. Nr. 5)
- 6) Digital anemometer (Reg. Nr. 67)
- 7) Digital barometer (Reg. Nr. 12)
- 8) AD converter (Reg. Nr. 45)
- 9) Micro pressure gauge (Reg. Nr. 163)
- 10) Weighing scale (Reg. Nr. 50)
- 11) Coated thermocouple 0,5 mm (Reg. Nr. 159)
- 12) Coated thermocouple 0,5 mm (Reg. Nr. 160)
- 13) Coated thermocouple 0,5 mm (Reg. Nr. 161)
- 14) Coated thermocouple 1,5 mm (Reg. Nr. 21)

5. Test results and conclusion

Conditioning: From 14th July according to ČSN EN 13238



Test specimen no.	1	2	3	Ø	Expanded uncertainty
Date of test	12-29	12-29	12-30		
LFS > edge	no	no	no	no	(-)
FIGRA _{0,2 MJ} [W/s]	210,0	189,7	224,0	207,9	21,3
FIGRA _{0,4 MJ} [W/s]	210,0	189,7	224,0	207,9	21,3
THR _{600 s} [MJ]	9,4	9,6	10,7	9,9	0,8
SMOGR _A [m ² /s ²]	41,0	38,6	47,7	42,4	8,2
TSP _{600 s} [m ²]	443,0	451,0	470,1	454,7	16,5
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“.

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.

Measured by: Vít Slaboch

Test report prepared by: Vít Slaboch



Distribution of test reports:

Copy Nr. 1 – sponsor

Copy Nr. 2 – laboratory archive

List of appendixes:

Appendix Nr. 1: The photograph of the exposed surface of the test specimen

Appendix Nr. 2: The graphs of measured and calculated values

END OF TEST REPORT





