



Zkušebna fyzikálních vlastností materiálů, konstrukcí a budov - Praha

Zkušební laboratoř č. 1007.4

akreditovaná ČIA dle ČSN EN ISO/IEC 17025:2018

INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a.s.

Divize CSI – Centrum stavebního inženýrství
Praha 10 – Hostivař, Pražská 16, PSČ 102 00



TEST REPORT

No. 21/P274

Job No.: 412503666

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: Compact laminate for external claddings, type: EDF, thickness 6 mm

Sponsor: Institut pro testování a certifikaci a.s.
unit 250
Třída Tomáše Bati 299
763 02 Zlín - Louky

Manufacturer: Greenlam Industries Limited
Vill-Paterh Bhonku, P.O.-Panjehra,
Tehsil-Nalagarh, Distt-Solan (HP).
Nalagarh-174101

Test specimens delivery date: 3rd June 2021

Workplace: Fire technical laboratory

Location: Pražská 16, Praha 10 – Hostivař

Date of test: 11th – 15th June 2021

Date of issue: 15th June 2021



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1. Test assignment

The test has been done on the base of order no. 412503666-1.

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: 21/P274

Composition: Undeclared

Description of test specimen: Brown sheets of thickness 6 mm, mass per unit area 8,70 kg/m². Front side and back side are identical. Panels were mechanically fixed on the standard wooden frame specified in ČSN EN 438-7, Annex B, composed of spruce-wood. The test specimen was constructed according to the ČSN EN 438-7, Annex B with open horizontal joint and thermal insulation (50 mm MW). Width of joints is 8 mm.

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 3rd June according to ČSN EN 13238



Test specimen no.	1	2	3	Ø	Expanded uncertainty
Date of test	06-11	06-15	06-15		
LFS < edge	yes	yes	yes	yes	(-)
FIGRA _{0,2 MJ} [W/s]	77,0	81,0	86,5	81,5	8,3
FIGRA _{0,4 MJ} [W/s]	50,5	56,8	52,8	53,4	7,2
THR _{600 s} [MJ]	3,1	3,5	3,2	3,3	0,2
SMOGR _A [m ² /s ²]	1,2	2,0	1,7	1,6	6,0
TSP _{600 s} [m ²]	19,3	22,4	20,3	20,7	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:

Copy No. 1 – sponsor

Copy No. 2 – laboratory archive

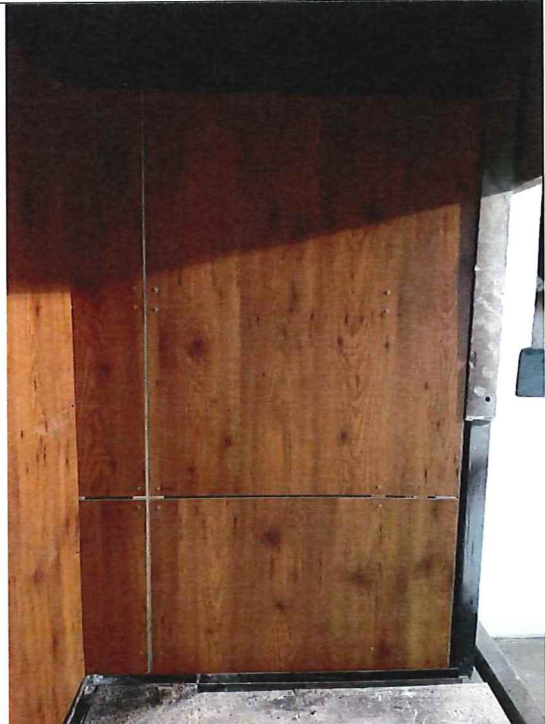


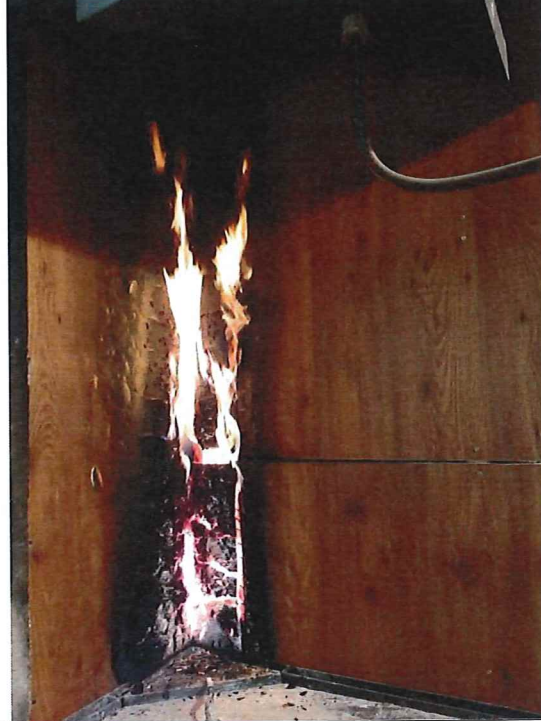
List of appendixes:

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
 A photograph showing the interior of a test chamber with wooden paneling. The view is from a corner, looking towards the long wing. The panels are light-colored wood with visible grain and joints.	 A photograph showing the interior of a test chamber with wooden paneling. The view is from a corner, looking towards the short wing. The panels are light-colored wood with visible grain and joints.
Photograph of the exposed surface taken from the opposite of corner line	Photograph of the exposed surface after the test
 A photograph showing the interior of a test chamber with wooden paneling. The view is from a corner, looking towards the long wing. The panels are light-colored wood with visible grain and joints.	 A photograph showing the interior of a test chamber with wooden paneling. The view is from a corner, looking towards the short wing. There is a significant amount of fire and smoke visible in the center of the chamber, indicating a fire test.

