

Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch
Testing, supervising and certifying body, authorized by the building supervision authority

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Fladungen, September 11th 2013**A. Berger GmbH**attn. of Mr. Gerrit A. Rauch
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K-Hoch-090630-2

fire test according to DIN 4102-1 (B1) with following fabric**PN 10230: „3893 blackout directo”**thickness \approx 0,57 mm**white fabric / side A is flocked**area weight \approx 347 g/m²**Dear Mr. Rauch,**

with the fabric we did fire tests acc. DIN 4102-1 in the “Brennkasten” and “Brandschacht” with the following results:

Brennkasten-Test	edge-test	surface-test
max. flame height	14 cm	14 cm
dropping of burning material	no	no

The flame must not hit the gage mark of 15 cm.

Brandschacht-Test	#9342	#9372
flamed side / direction	A / weft	A / warp
max. flame height / time	80 cm / 0:12 min	>100 cm / 0:11 min
max. smoke temperature	117°C	119°C
rest length (average)	39 cm	27 cm
smoke development	26 %min	35 %min
burn through	0:07 min	0:08 min
burning droplets	no (11 sec.)	no

the rest length must be >15 cm, the maximum smoke temperature must be lower than 200°C

- **The fabric did pass the “Brennkasten-Test” (B2).**
- **The fabric did pass the “Brandschacht-Test” (main test for class B1 according to DIN 4102-1):**
To issue an official certificate according to DIN 4102-1 / class B1 additional “Brandschacht-Tests” are necessary.

Yours sincerely

J. Hammer

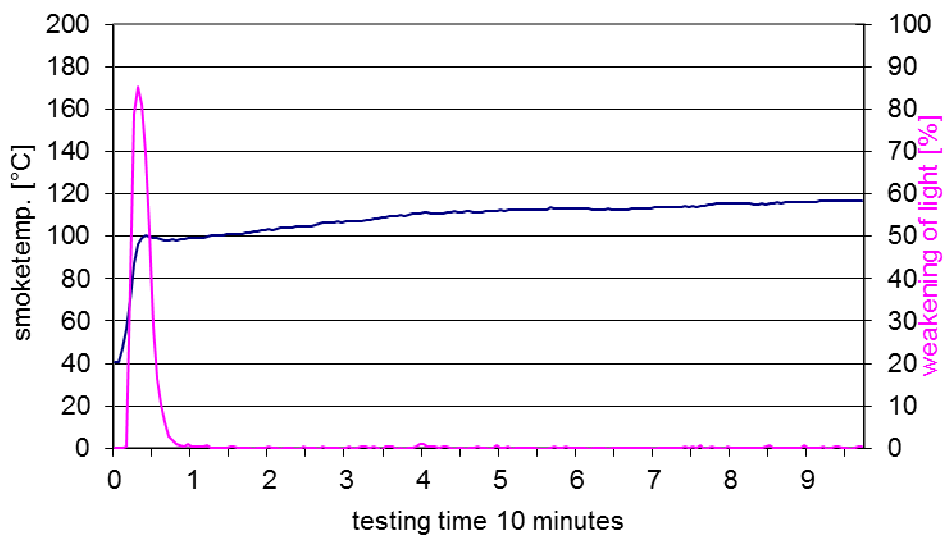
This test report includes 2 enclosures.

Brandschacht-Test #9342



measurement

9342, BERGER "3893", A+S, PN 10230
residual length: 39cm, max. smoketemp.: 117°C, smoke-Int.: 26%/min



Brandschacht-Test #9372



measurement

9372, BERGER "3893", B+K, PN 10230-2
 residual length: 27cm, max. smoketemp.: 119°C, smoke-Int.: 35%min

