

# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

**J&C Joel**   
Inspiration in every performance

Prüfinstitut Hoch

Lerchenweg 1  
D-97650 Fladungen  
Tel.: int – 49 – 9778-7480-200  
hoch.fladungen@t-online.de

www.reaction-to-fire.de



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

## TEST REPORT PZ-Hoch-240738

for the proof of fire behaviour according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

|                         |                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| description of samples  | fabric consisting of 100% Cotton in different variants and colours                                                                                                                                                                                                                               |
| name of the material    | „Schleiernessel“ / „Baumwoll-Cretonne“<br>„Dekomolton“ / „Baumwollnessel“<br>„Eventmolton“ / „Bühnenmolton“<br>„Satinmolton“ / „Kalmuck“                                                                                                                                                         |
| sampling                | by the company itself                                                                                                                                                                                                                                                                            |
| content of request      | Proof of flammability to classify building materials to class B1<br>("schwerentflammbar") according to DIN 4102, part 1                                                                                                                                                                          |
| validity of test report | 31.05.2029                                                                                                                                                                                                                                                                                       |
| result                  | The examined product meet in raw white, in any colour or<br>bleached the requirements of class B1 for hardly flammable<br>("schwerentflammbare") building materials according to<br>DIN 4102, pt. 1 (May 1998), suspended freely or with distance of<br>>40 mm to same or other plain materials. |

This test report includes 11 pages and 11 enclosures.

Remark: If the building material mentioned above is not used as a product according to MBO § 2, Abs. 9, Ziffer 1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product as defined by State Building Prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws as defined by State Building Prescriptions. This has to be certified instead by:

- "allgemeine bauaufsichtliche Zulassung" (General Building Inspectorate Approval) or by
- "allgemeines bauaufsichtliches Prüfzeugnis" (General Building Inspectorate Certificate) or by
- "Zustimmung im Einzelfall" (Exceptional Approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for irregular building products for the required proofs of applicability.

Without written consent of the test laboratory, this test report may only be published or duplicated during its denoted period of validity, providing that no changes to appearance or content are made.

member of   
notified body no.: 1508

By the DAkkS according to DIN EN ISO/IEC 17025 accredited test laboratory.  
The accreditation is valid for the testing methods specified in the certificate.



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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## 1. Description of test material in condition as delivered

- PN 39069 "Schleiernessel" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 97 g/m<sup>2</sup> thickness: about 0,28 mm
- PN 39070 "Schleiernessel" colour: light grey  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 92 g/m<sup>2</sup> thickness: about 0,25 mm
- PN 39071 "Baumwoll-Cretonne" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 170g/m<sup>2</sup> thickness: about 0,32 mm
- PN 39072 "Dekomolton" colour: light red  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 176g/m<sup>2</sup> thickness: about 0,81 mm
- PN 39073 "Baumwollnessel" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 223 g/m<sup>2</sup> thickness: about 0,34 mm
- PN 39074 "Baumwollnessel" colour: grey  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 209 g/m<sup>2</sup> thickness: about 0,33 mm
- PN 39075 "Eventmolton" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 288 g/m<sup>2</sup> thickness: about 1,06 mm
- PN 39076 "Bühnenmolton" colour: red  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 352g/m<sup>2</sup> thickness: about 1,35 mm



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PN 39077 "Satinmolton" (bleached) colour: white

-fabric consisting of 100% Cotton-

side A: smoother surface

characteristic values determined by the test laboratory:

area weight: about 309 g/m<sup>2</sup> thickness: about 0,69 mm

PN 39078 "Satinmolton" (bleached) colour: grey

-fabric consisting of 100% Cotton-

side A: smoother surface

characteristic values determined by the test laboratory:

area weight: about 315 g/m<sup>2</sup> thickness: about 0,75 mm

PN 39079 "Kalmuck" colour: light beige

-fabric consisting of 100% Cotton-

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 570g/m<sup>2</sup> thickness: about 1,67 mm

PN 39080 "Kalmuck" (bleached) colour: white

-fabric consisting of 100% Cotton-

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 613g/m<sup>2</sup> thickness: about 1,55 mm

PN 39081 "Kalmuck" colour: grey

-fabric consisting of 100% Cotton-

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 531g/m<sup>2</sup> thickness: about 1,54 mm

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

## 2. Preparation of samples

Samples with a size of 1000 mm height and 190 mm width where cut from the material for fire testing.

The samples were kept in climate chamber 23/50 until they reached constant weight.



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3. **Arrangement of samples** mounting: freely suspended

|        |                                  |         |
|--------|----------------------------------|---------|
| #7820: | flaming side A in warp direction | PN39081 |
| #7821: | flaming side B in weft direction | PN39081 |
| #7822: | flaming side A in warp direction | PN39080 |
| #7825: | flaming side A in warp direction | PN39079 |
| #7824: | flaming side A in warp direction | PN39079 |
| #7823: | flaming side A in warp direction | PN39079 |
| #7819: | flaming side B in weft direction | PN39078 |
| #7818: | flaming side A in warp direction | PN39077 |
| #7817: | flaming side A in warp direction | PN39076 |
| #7816: | flaming side B in weft direction | PN39075 |
| #7815: | flaming side A in warp direction | PN39074 |
| #7814: | flaming side B in weft direction | PN39073 |
| #7813: | flaming side A in warp direction | PN39072 |
| #7799: | flaming side B in weft direction | PN39071 |
| #7798: | flaming side A in warp direction | PN39070 |
| #7797: | flaming side B in weft direction | PN39069 |

4. **Date of test** CW 21 until CW in 2024

5.1 **Results (part 1)** The test has been performed according to DIN 4102 (Mai 1998)

| line no. | Measurement                                                      | Result with the tested specimen |           |           |           |           |           | Dim.  |
|----------|------------------------------------------------------------------|---------------------------------|-----------|-----------|-----------|-----------|-----------|-------|
|          | Test number                                                      | #7820                           | #7821     | #7822     | #7825     | #7824     | #7823     |       |
|          | flaming direction                                                | warp                            | weft      | warp      | warp      | warp      | warp      |       |
|          | side                                                             | A                               | B         | A         | A         | A         | A         |       |
|          | sample-no                                                        | 39081                           |           | 39080     | 39079     |           |           |       |
|          | fabric                                                           | Kalmuck                         |           |           |           |           |           |       |
| 1        | Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1 | 1                               | 1         | 1         | 1         | 1         | 1         | ---   |
| 2        | Maximum flame height above bottom edge of specimen               | 60                              | 60        | 70        | 80        | 70        | 70        | ---   |
| 3        | Time <sup>1)</sup>                                               | 0:17                            | 0:12      | 0:44      | 0:40      | 0:35      | 0:40      | ---   |
| 4        | Burn-through / melting Time <sup>1)</sup>                        | 0:45                            | 0:45      | 0:55      | 0:13      | 0:44      | 0:14      | ---   |
|          | Observations on the back side of specimen                        |                                 |           |           |           |           |           |       |
| 5        | Flames / Glowing Time <sup>1)</sup>                              | X<br>1:40                       | X<br>2:05 | X<br>2:15 | X<br>2:05 | X<br>3:00 | X<br>1:50 | ---   |
| 6        | Change of colour Time <sup>1)</sup>                              | ---                             | ---       | ---       | ---       | ---       | ---       | ---   |
| 7        | Falling of burning droplets Start <sup>1)</sup>                  | .J.                             | .J.       | .J.       | .J.       | .J.       | .J.       | min:s |
| 8        | Extent sporadic falling of burning droplets <sup>2)</sup>        | -                               | -         | -         | -         | -         | -         |       |
| 9        | continuous falling of burning droplets <sup>2)</sup>             | -                               | -         | -         | -         | -         | -         | min:s |
| 10       | Falling of burning parts Start <sup>1)</sup>                     | .J.                             | .J.       | .J.       | .J.       | .J.       | .J.       | min:s |
| 11       | Extent sporadic falling of burning parts <sup>2)</sup>           | -                               | -         | -         | -         | -         | -         |       |
| 12       | continuous falling of burning parts <sup>2)</sup>                | -                               | -         | -         | -         | -         | -         |       |



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| line no. | Measurement                                                                                               | Result with the tested specimen |                      |                      |                      |                      |                      | Dim.                 |
|----------|-----------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|          | Test number                                                                                               | #7820                           | #7821                | #7822                | #7825                | #7824                | #7823                |                      |
|          | flaming direction                                                                                         | warp                            | weft                 | warp                 | warp                 | warp                 | warp                 |                      |
|          | side                                                                                                      | A                               | B                    | A                    | A                    | A                    | A                    |                      |
|          | <b>sample-no</b>                                                                                          | <b>39081</b>                    | <b>39080</b>         | <b>39079</b>         |                      |                      |                      |                      |
| 13       | Burning duration at sieve plate (max.)                                                                    | ./.                             | ./.                  | ./.                  | ./.                  | ./.                  | ./.                  | min:s                |
| 14       | Impairment of burner by dropping or falling material:<br>Time <sup>1)</sup>                               | ./.                             | ./.                  | ./.                  | ./.                  | ./.                  | ./.                  | min:s                |
| 15       | Premature end of test<br>Final occurrence of burning at the specimen <sup>1)</sup>                        | 1:15                            | 1:10                 | 1:20                 | 1:20                 | 2:00                 | 1:50                 | min:s                |
| 16       | Time of eventually end of test <sup>1)</sup>                                                              | ./.                             | ./.                  | ./.                  | ./.                  | ./.                  | ./.                  | min:s                |
| 17       | Afterburning after end of test<br>Time <sup>1)</sup>                                                      | ./.                             | ./.                  | ./.                  | ./.                  | ./.                  | ./.                  | min:s                |
| 18       | Number of specimen                                                                                        | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 19       | Front side of specimen <sup>2)</sup>                                                                      | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 20       | Rear side of specimen <sup>2)</sup>                                                                       | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 21       | flame length                                                                                              | -                               | -                    | -                    | -                    | -                    | -                    | cm                   |
| 22       | Afterglow after end of test<br>Time <sup>1)</sup>                                                         | ./.                             | ./.                  | ./.                  | ./.                  | ./.                  | ./.                  | min:s                |
| 23       | Number of specimen<br>Place of appearance                                                                 | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 24       | Lower half of the specimen <sup>2)</sup>                                                                  | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 25       | Upper half of the specimen <sup>2)</sup>                                                                  | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 26       | Front side of specimen <sup>2)</sup>                                                                      | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 27       | Rear side of specimen <sup>2)</sup>                                                                       | -                               | -                    | -                    | -                    | -                    | -                    |                      |
| 28       | Density of smoke<br>≤ 400 % * min                                                                         | 13                              | 13                   | 18                   | 16                   | 19                   | 16                   | % * min              |
| 29       | > 400 % * min <sup>4)</sup>                                                                               | -                               | -                    | -                    | -                    | -                    | -                    | % * min              |
| 30       | Diagram in enclosure no.                                                                                  | 1                               | 1                    | 1                    | 2                    | 2                    | 2                    |                      |
| 31       | Residual lengths: individual values <sup>3)</sup><br>Specimen 1<br>Specimen 2<br>Specimen 3<br>Specimen 4 | 35<br>30<br>33<br>36            | 38<br>35<br>35<br>37 | 35<br>34<br>31<br>33 | 31<br>29<br>26<br>28 | 32<br>31<br>31<br>33 | 26<br>27<br>25<br>24 | cm<br>cm<br>cm<br>cm |
| 32       | Average residual length <sup>3)</sup>                                                                     | 34                              | 36                   | 33                   | 29                   | 32                   | 26                   |                      |
| 33       | Photo of specimen in enclosure no.                                                                        | 1                               | 1                    | 1                    | 2                    | 2                    | 2                    |                      |
| 34       | Flue gas temperature<br>Maximum of average values                                                         | 119                             | 116                  | 119                  | 119                  | 120                  | 122                  | °C                   |
| 35       | Time <sup>1)</sup>                                                                                        | 01:47                           | 09:45                | 02:48                | 02:45                | 02:33                | 02:39                | min:s                |
| 36       | Diagram in enclosure no.                                                                                  | 1                               | 1                    | 1                    | 2                    | 2                    | 2                    |                      |
| 37       | Remarks: - none -                                                                                         |                                 |                      |                      |                      |                      |                      |                      |

<sup>1)</sup> indication of times relative to beginning of test

<sup>2)</sup> checked if applicable

<sup>3)</sup> indication of carrier/foam layer separated in case of fire-proofing agents

<sup>4)</sup> very strong development of smoke



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## 5.2 Results (part 2)

The test has been performed according to DIN 4102 (Mai 1998)

| line no. | Measurement                                                                      | Result with the tested specimen |              |               |              |                       |              | Dim.  |
|----------|----------------------------------------------------------------------------------|---------------------------------|--------------|---------------|--------------|-----------------------|--------------|-------|
|          | Test number                                                                      | #7819                           | #7818        | #7817         | #7816        | #7815                 | #7814        |       |
|          | flaming direction                                                                | weft                            | warp         | warp          | weft         | warp                  | weft         |       |
|          | side                                                                             | B                               | A            | A             | B            | A                     | B            |       |
|          | <b>sample-no</b>                                                                 | <b>39078</b>                    | <b>39077</b> | <b>39076</b>  | <b>39075</b> | <b>39074</b>          | <b>39073</b> |       |
|          | <b>fabric</b>                                                                    | <b>Satin</b>                    |              | <b>Bühnen</b> | <b>Event</b> | <b>Baumwollnessel</b> |              |       |
| 1        | Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1                 | 1                               | 1            | 1             | 1            | 1                     | 1            | ---   |
| 2        | Maximum flame height above bottom edge of specimen                               | 60                              | 70           | 60            | 60           | 60                    | 60           | ---   |
| 3        | Time <sup>1)</sup>                                                               | 0:15                            | 0:20         | 0:21          | 0:10         | 0:11                  | 0:11         | ---   |
| 4        | Burn-through / melting Time <sup>1)</sup>                                        | 0:23                            | 0:22         | 0:28          | 0:30         | 0:13                  | 0:15         | ---   |
| 5        | Observations on the back side of specimen<br>Flames / Glowing Time <sup>1)</sup> | J.                              | J.           | J.            | J.           | J.                    | J.           | ---   |
| 6        | Change of colour Time <sup>1)</sup>                                              | ---                             | ---          | ---           | ---          | ---                   | ---          | ---   |
| 7        | Falling of burning droplets Start <sup>1)</sup>                                  | J.                              | J.           | J.            | J.           | J.                    | J.           | min:s |
| 8        | Extent                                                                           |                                 |              |               |              |                       |              |       |
| 9        | sporadic falling of burning droplets <sup>2)</sup>                               | -                               | -            | -             | -            | -                     | -            | min:s |
| 10       | continuous falling of burning droplets <sup>2)</sup>                             | -                               | -            | -             | -            | -                     | -            | min:s |
| 11       | Falling of burning parts Start <sup>1)</sup>                                     | J.                              | J.           | J.            | J.           | J.                    | J.           | min:s |
| 12       | Extent                                                                           |                                 |              |               |              |                       |              |       |
| 13       | sporadic falling of burning parts <sup>2)</sup>                                  | -                               | -            | -             | -            | -                     | -            | min:s |
| 14       | continuous falling of burning parts <sup>2)</sup>                                | -                               | -            | -             | -            | -                     | -            | min:s |
| 15       | Burning duration at sieve plate (max.)                                           | J.                              | J.           | J.            | J.           | J.                    | J.           | min:s |
| 16       | Impairment of burner by dropping or falling material: Time <sup>1)</sup>         | J.                              | J.           | J.            | J.           | J.                    | J.           | min:s |
| 17       | Premature end of test                                                            |                                 |              |               |              |                       |              |       |
| 18       | Final occurrence of burning at the specimen <sup>1)</sup>                        | 0:30                            | 0:30         | 1:00          | 1:00         | 0:25                  | 0:35         | min:s |
| 19       | Time of eventually end of test <sup>1)</sup>                                     | J.                              | J.           | J.            | J.           | J.                    | J.           | min:s |
| 20       | Afterburning after end of test Time <sup>1)</sup>                                | J.                              | J.           | J.            | J.           | J.                    | J.           | min:s |
| 21       | Number of specimen                                                               | -                               | -            | -             | -            | -                     | -            |       |
| 22       | Front side of specimen <sup>2)</sup>                                             | -                               | -            | -             | -            | -                     | -            |       |
| 23       | Rear side of specimen <sup>2)</sup>                                              | -                               | -            | -             | -            | -                     | -            |       |
| 24       | flame length                                                                     | -                               | -            | -             | -            | -                     | -            | cm    |



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| line no. | Measurement                                       | Result with the tested specimen |              |               |              |                       |              | Dim.        |
|----------|---------------------------------------------------|---------------------------------|--------------|---------------|--------------|-----------------------|--------------|-------------|
|          | Test number                                       | #7819                           | #7818        | #7817         | #7816        | #7815                 | #7814        |             |
|          | flaming direction                                 | weft                            | warp         | warp          | weft         | warp                  | weft         |             |
|          | side                                              | B                               | A            | A             | B            | A                     | B            |             |
|          | <b>sample-no</b>                                  | <b>39078</b>                    | <b>39077</b> | <b>39076</b>  | <b>39075</b> | <b>39074</b>          | <b>39073</b> |             |
|          | <b>fabric</b>                                     | <b>Satin</b>                    |              | <b>Bünnen</b> | <b>Event</b> | <b>Baumwollnessel</b> |              |             |
| 22       | Afterglow after end of test<br>Time <sup>1)</sup> | -                               | -            | -             | -            | -                     | -            | min:s       |
| 23       | Number of specimen<br>Place of appearance         | .J.                             | .J.          | .J.           | .J.          | .J.                   | .J.          |             |
| 24       | Lower half of the specimen <sup>2)</sup>          | -                               | -            | -             | -            | -                     | -            |             |
| 25       | Upper half of the specimen <sup>2)</sup>          | -                               | -            | -             | -            | -                     | -            |             |
| 26       | Front side of specimen <sup>2)</sup>              | -                               | -            | -             | -            | -                     | -            |             |
| 27       | Rear side of specimen <sup>2)</sup>               | -                               | -            | -             | -            | -                     | -            |             |
| 28       | Density of smoke<br>≤ 400 % * min                 | 9                               | 10           | 4             | 9            | 1                     | 5            | % * min     |
| 29       | > 400 % * min <sup>4)</sup>                       | -                               | -            | -             | -            | -                     | -            | % * min     |
| 30       | Diagram in enclosure no.                          | 3                               | 3            | 3             | 4            | 4                     | 4            |             |
| 31       | Residual lengths: individual values <sup>3)</sup> |                                 |              |               |              |                       |              |             |
|          | Specimen 1                                        | 46                              | 41           | 42            | 35           | 43                    | 52           | cm          |
|          | Specimen 2                                        | 42                              | 42           | 44            | 35           | 42                    | 49           | cm          |
|          | Specimen 3                                        | 49                              | 42           | 43            | 36           | 32                    | 45           | cm          |
|          | Specimen 4                                        | 46                              | 41           | 42            | 35           | 35                    | 45           | cm          |
| 32       | Average residual length <sup>3)</sup>             | 46                              | 42           | 43            | 35           | 38                    | 48           |             |
| 33       | Photo of specimen in enclosure no.                | 3                               | 3            | 3             | 4            | 4                     | 4            |             |
| 34       | Flue gas temperature                              |                                 |              |               |              |                       |              |             |
| 35       | Maximum of average values<br>Time <sup>1)</sup>   | 114<br>09:54                    | 111<br>0:25  | 117<br>09:48  | 115<br>10:00 | 116<br>09:42          | 116<br>09:54 | °C<br>min:s |
| 36       | Diagram in enclosure no.                          | 3                               | 3            | 3             | 4            | 5                     | 6            |             |
| 37       | Remarks: - none -                                 |                                 |              |               |              |                       |              |             |

<sup>1)</sup> indication of times relative to beginning of test

<sup>2)</sup> checked if applicable

<sup>3)</sup> indication of carrier/foam layer separated in case of fire-proofing agents

<sup>4)</sup> very strong development of smoke



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# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1



Prüfinstitut Hoch  
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D-97650 Fladungen

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## 5.3 Results (part 3)

The test has been performed according to DIN 4102 (Mai 1998)

| line no. | Measurement                                                                      | Result with the tested specimen |             |                |       | Dim.  |
|----------|----------------------------------------------------------------------------------|---------------------------------|-------------|----------------|-------|-------|
|          | Test number                                                                      | #7813                           | #7799       | #7798          | #7797 |       |
|          | flaming direction                                                                | warp                            | weft        | warp           | weft  |       |
|          | side                                                                             | A                               | B           | A              | B     |       |
|          | sample-no                                                                        | 39072                           | 39071       | 39070          | 39069 |       |
|          | fabric                                                                           | Deko                            | BW-Cretonne | Schleiernessel |       |       |
| 1        | Number of specimen arrangement acc. to DIN 4102/T15, schedule 1                  | 1                               | 1           | 1              | 1     | ---   |
| 2        | Maximum flame height above bottom edge of specimen                               | 60                              | 60          | 60             | 50    | ---   |
| 3        | Time <sup>1)</sup>                                                               | 0:09                            | 0:11        | 0:08           | 0:08  | ---   |
| 4        | Burn-through / melting Time <sup>1)</sup>                                        | 0:16                            | 0:14        | 0:08           | 0:10  | ---   |
| 5        | Observations on the back side of specimen<br>Flames / Glowing Time <sup>1)</sup> | ---                             | ---         | ---            | ---   | ---   |
| 6        | Change of colour Time <sup>1)</sup>                                              | ---                             | ---         | ---            | ---   | ---   |
| 7        | Falling of burning droplets Start <sup>1)</sup>                                  | ---                             | ---         | ---            | ---   | min:s |
| 8        | Extent                                                                           | ---                             | ---         | ---            | ---   |       |
| 9        | sporadic falling of burning droplets <sup>2)</sup>                               | -                               | -           | -              | -     | min:s |
| 10       | continuous falling of burning droplets <sup>2)</sup>                             | -                               | -           | -              | -     |       |
| 11       | Falling of burning parts Start <sup>1)</sup>                                     | ---                             | ---         | ---            | ---   | min:s |
| 12       | Extent                                                                           | ---                             | ---         | ---            | ---   |       |
| 13       | sporadic falling of burning parts <sup>2)</sup>                                  | -                               | -           | -              | -     |       |
| 14       | continuous falling of burning parts <sup>2)</sup>                                | -                               | -           | -              | -     |       |
| 15       | Burning duration at sieve plate (max.)                                           | ---                             | ---         | ---            | ---   | min:s |
| 16       | Impairment of burner by dropping or falling material: Time <sup>1)</sup>         | ---                             | ---         | ---            | ---   | min:s |
| 17       | Premature end of test                                                            |                                 |             |                |       |       |
| 18       | Final occurrence of burning at the specimen <sup>1)</sup>                        | 0:30                            | 1:05        | 0:19           | 0:55  | min:s |
| 19       | Time of eventually end of test <sup>1)</sup>                                     | ---                             | ---         | ---            | ---   | min:s |
| 20       | Afterburning after end of test Time <sup>1)</sup>                                | ---                             | ---         | ---            | ---   | min:s |
| 21       | Number of specimen                                                               | -                               | -           | -              | -     |       |
| 22       | Front side of specimen <sup>2)</sup>                                             | -                               | -           | -              | -     |       |
| 23       | Rear side of specimen <sup>2)</sup>                                              | -                               | -           | -              | -     |       |
| 24       | flame length                                                                     | -                               | -           | -              | -     | cm    |



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+44 1422 833835



uksales@jcjoel.com



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+971 4 884 7801



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| line no. | Measurement                                       | Result with the tested specimen |                    |                       |              | Dim.    |
|----------|---------------------------------------------------|---------------------------------|--------------------|-----------------------|--------------|---------|
|          | Test number                                       | #7813                           | #7799              | #7798                 | #7797        |         |
|          | flaming direction                                 | warp                            | weft               | warp                  | weft         |         |
|          | side                                              | A                               | B                  | A                     | B            |         |
|          | <b>sample-no</b>                                  | <b>39072</b>                    | <b>39071</b>       | <b>39070</b>          | <b>39069</b> |         |
|          | <b>fabric</b>                                     | <b>Deko</b>                     | <b>BW-Cretonne</b> | <b>Schleiernessel</b> |              |         |
| 22       | Afterglow after end of test                       | -                               | -                  | -                     | -            | min:s   |
| 23       | Time <sup>1)</sup>                                | ./.                             | ./.                | ./.                   | ./.          |         |
| 24       | Number of specimen                                |                                 |                    |                       |              |         |
| 25       | Place of appearance                               |                                 |                    |                       |              |         |
| 26       | Lower half of the specimen <sup>2)</sup>          | -                               | -                  | -                     | -            |         |
| 27       | Upper half of the specimen <sup>2)</sup>          | -                               | -                  | -                     | -            |         |
| 28       | Front side of specimen <sup>2)</sup>              | -                               | -                  | -                     | -            |         |
| 29       | Rear side of specimen <sup>2)</sup>               | -                               | -                  | -                     | -            |         |
| 30       | Density of smoke                                  |                                 |                    |                       |              |         |
| 31       | ≤ 400 % * min                                     | 4                               | 4                  | 2                     | 1            | % * min |
| 32       | > 400 % * min <sup>4)</sup>                       | -                               | -                  | -                     | -            | % * min |
| 33       | Diagram in enclosure no.                          | 5                               | 5                  | 5                     | 6            |         |
| 34       | Residual lengths: individual values <sup>3)</sup> |                                 |                    |                       |              |         |
| 35       | Specimen 1                                        | 40                              | 46                 | 51                    | 79           | cm      |
| 36       | Specimen 2                                        | 42                              | 50                 | 40                    | 74           | cm      |
| 37       | Specimen 3                                        | 40                              | 50                 | 46                    | 76           | cm      |
| 38       | Specimen 4                                        | 42                              | 52                 | 46                    | 74           | cm      |
| 39       | Average residual length <sup>3)</sup>             | 41                              | 50                 | 46                    | 76           |         |
| 40       | Photo of specimen in enclosure no.                | 5                               | 5                  | 5                     | 6            |         |
| 41       | Flue gas temperature                              |                                 |                    |                       |              |         |
| 42       | Maximum of average values                         | 112                             | 116                | 113                   | 118          | °C      |
| 43       | Time <sup>1)</sup>                                | 09:39                           | 10:00              | 07:39                 | 07:37        | min:s   |
| 44       | Diagram in enclosure no.                          | 5                               | 5                  | 5                     | 6            |         |
| 45       | Remarks: - none -                                 |                                 |                    |                       |              |         |

<sup>1)</sup> indication of times relative to beginning of test

<sup>2)</sup> checked if applicable

<sup>3)</sup> indication of carrier/foam layer separated in case of fire-proofing agents

<sup>4)</sup> very strong development of smoke



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



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# Fire Test Certificate - Specimen

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6. Explanations concerning the testing procedure -none-

7. Summary of results and additional establishments to Fire Behaviour

| lineno. | Measurement               | Result with the tested specimen |                              |                              |                              |                              |                              | dimension |
|---------|---------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------|
|         | test-no.                  | #7820<br>warp dir.<br>side A    | #7821<br>weft dir.<br>side B | #7822<br>warp dir.<br>side A | #7825<br>warp dir.<br>side A | #7824<br>warp dir.<br>side A | #7823<br>warp dir.<br>side A |           |
|         | sample-no                 | 39081                           |                              | 39080                        | 39079                        |                              |                              |           |
|         | fabric                    | Kalmuck                         |                              |                              |                              |                              |                              |           |
| 1       | residual length           | 34                              | 36                           | 33                           | 29                           | 32                           | 26                           | cm        |
| 2       | max. smoke temperature    | 119                             | 116                          | 119                          | 119                          | 120                          | 122                          | °C        |
| 3       | integral of smoke density | 13                              | 13                           | 18                           | 16                           | 19                           | 16                           | %min      |
| 4       | remarks: none             |                                 |                              |                              |                              |                              |                              |           |

| lineno. | Measurement               | Result with the tested specimen |                              |                              |                              |                              |                              | dimension |
|---------|---------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------|
|         | test-no.                  | #7819<br>weft dir.<br>side B    | #7818<br>warp dir.<br>side A | #7817<br>warp dir.<br>side A | #7816<br>weft dir.<br>side B | #7815<br>warp dir.<br>side A | #7814<br>weft dir.<br>side B |           |
|         | sample-no                 | 39078                           | 39077                        | 39076                        | 39075                        | 39074                        | 39073                        |           |
|         | fabric                    | Satin                           |                              | Bühnen                       | Event                        | Baumwollnessel               |                              |           |
| 1       | residual length           | 46                              | 42                           | 43                           | 35                           | 38                           | 48                           | cm        |
| 2       | max. smoke temperature    | 114                             | 111                          | 117                          | 115                          | 116                          | 116                          | °C        |
| 3       | integral of smoke density | 9                               | 10                           | 4                            | 9                            | 1                            | 5                            | %min      |
| 4       | remarks: none             |                                 |                              |                              |                              |                              |                              |           |

| lineno. | Measurement               | Result with the tested specimen |                              |                              |                              | dimension |
|---------|---------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|-----------|
|         | test-no.                  | #7813<br>warp dir.<br>side A    | #7799<br>weft dir.<br>side B | #7798<br>warp dir.<br>side A | #7797<br>weft dir.<br>side B |           |
|         | sample-no                 | 39072                           | 39071                        | 39070                        | 39069                        |           |
|         | fabric                    | Deko                            | BW-Cretonne                  | Schleiernessel               |                              |           |
| 1       | residual length           | 41                              | 50                           | 46                           | 76                           | cm        |
| 2       | max. smoke temperature    | 112                             | 116                          | 113                          | 118                          | °C        |
| 3       | integral of smoke density | 4                               | 4                            | 2                            | 1                            | %min      |
| 4       | remarks: none             |                                 |                              |                              |                              |           |

According to DIN 4102, pt. 1, hardly flammable ("schwerentflammbare") building materials must meet the requirements of class B2.

After performing additional tests in the ignitability apparatus, this could be verified (encl. 7 - 11).



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

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## 8. Special remarks

- This report is only valid for the material as described in paragraph 1. In combination with other materials or with additional coatings or primers etc., the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions, washing or cleaning with chemicals.
- This test report is not valid if the material is used as a building product in the sense of the State Building Regulations ("Landesbauordnungen", MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, in particular private proprietary rights.
- For legal interests, only the German original version is relevant.
- In General Building Inspectorates procedures, this test report can be used for
  - regular building materials for the required proof of accordance
  - for not regular building materials for the required proof of applicability

## 9. Validity

This test report is valid until the denoted date on page 1. The test report becomes invalid in case the standards on which these tests are based are changed.

Fladungen, 10.06.2024

Clerk in charge:



(Dipl.-Ing. (FH) Jürgen Hammer)



Head of test laboratory:



(Dipl.-Ing. (FH) Andreas Hoch)



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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Type: B1

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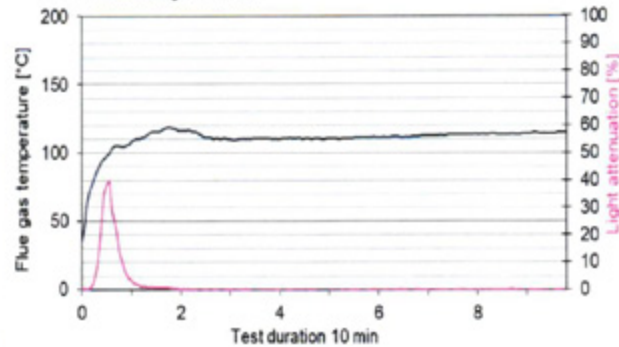
enclosure 1 test report  
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## Fire shaft test #7820

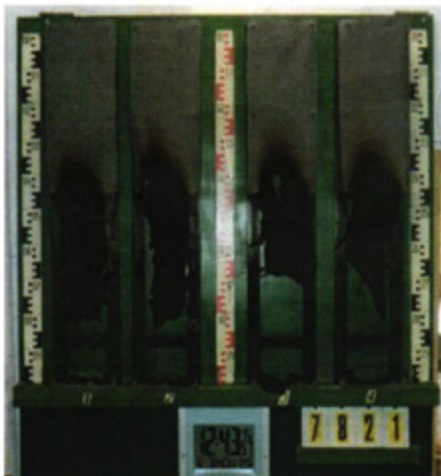


#7820, PN39081:

Max. flue temperature: 119°C, Smoke density integral: 13%min  
Residual length: 34 cm

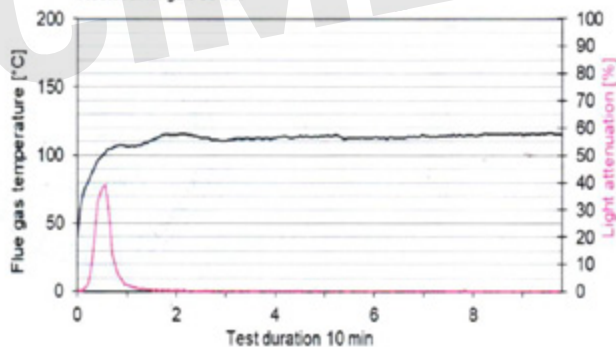


## Fire shaft test #7821



#7821, PN39081:

Max. flue temperature: 116°C, Smoke density integral: 13%min  
Residual length: 36 cm

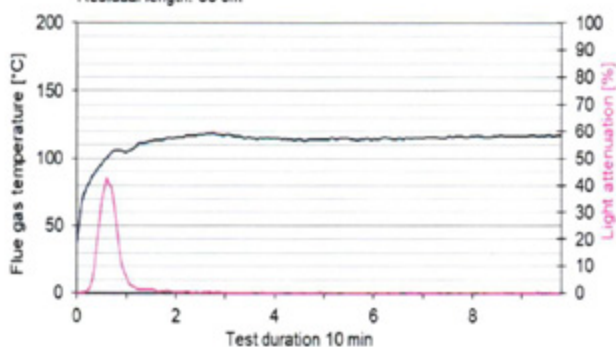


## Fire shaft test #7822



#7822, PN39080:

Max. flue temperature: 119°C, Smoke density integral: 18%min  
Residual length: 33 cm



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+44 1422 833835



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# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

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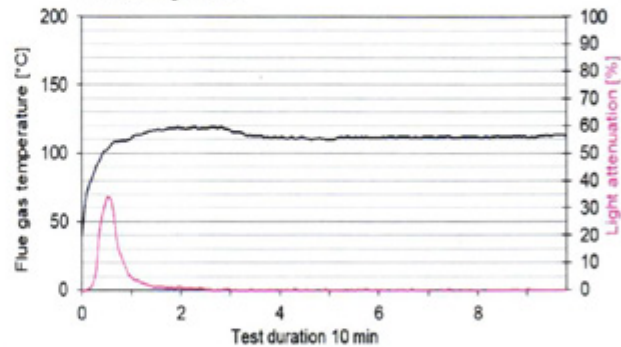
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## Fire shaft test #7825



#7825, PN39079:

Max. flue temperature: 119°C, Smoke density integral: 16%/min  
Residual length: 29 cm

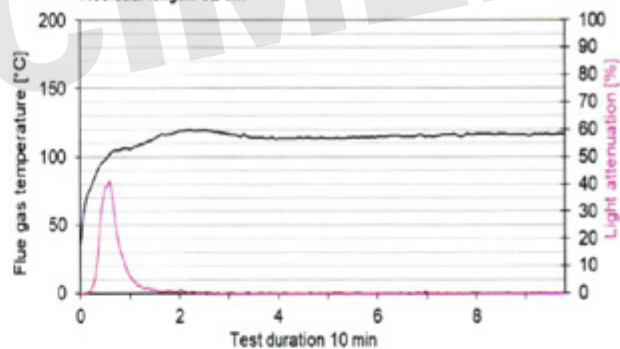


## Fire shaft test #7824



#7824, PN39079:

Max. flue temperature: 120°C, Smoke density integral: 19%/min  
Residual length: 32 cm

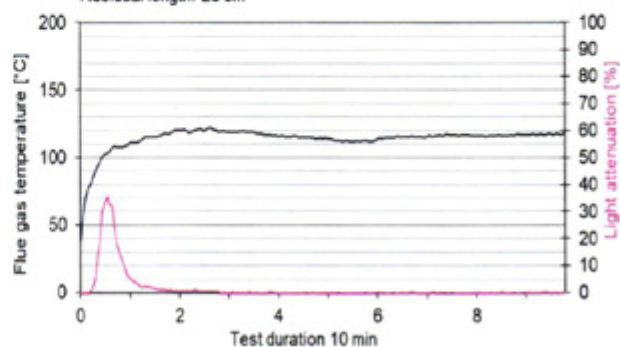


## Fire shaft test #7823



#7823, PN39079:

Max. flue temperature: 122°C, Smoke density integral: 16%/min  
Residual length: 26 cm



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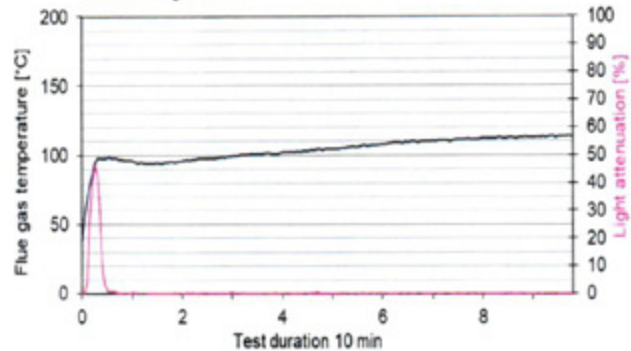
## Fire shaft test #7819



#7819, PN39078:

Max. flue temperature: 114°C, Smoke density integral: 9%/min

Residual length: 46 cm



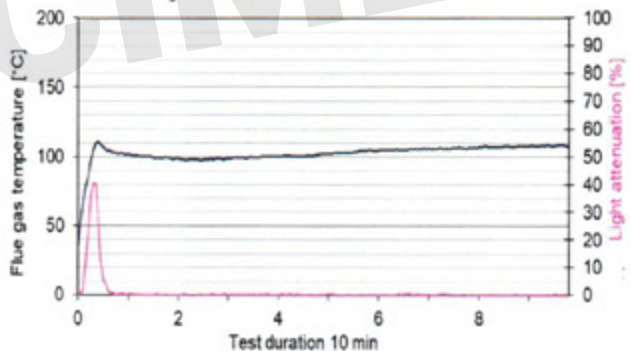
## Fire shaft test #7818



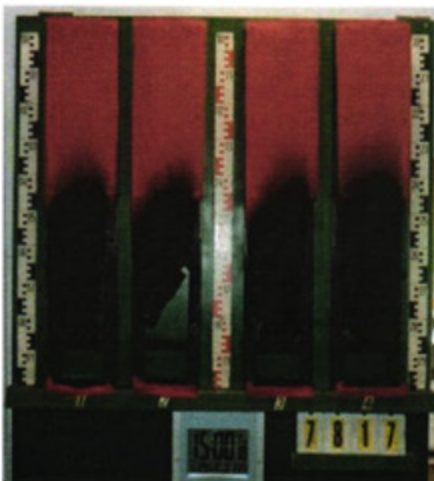
#7818, PN39077:

Max. flue temperature: 111°C, Smoke density integral: 10%/min

Residual length: 42 cm



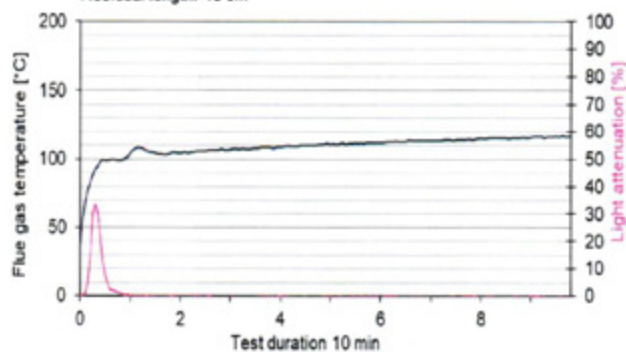
## Fire shaft test #7817



#7817, PN39076:

Max. flue temperature: 117°C, Smoke density integral: 4%/min

Residual length: 43 cm



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uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



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Fabric: Muslin 3.05

Type: B1

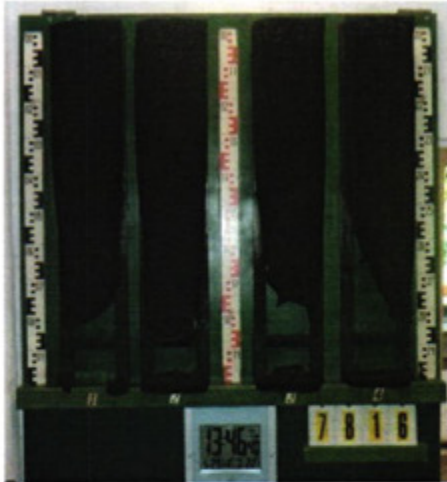
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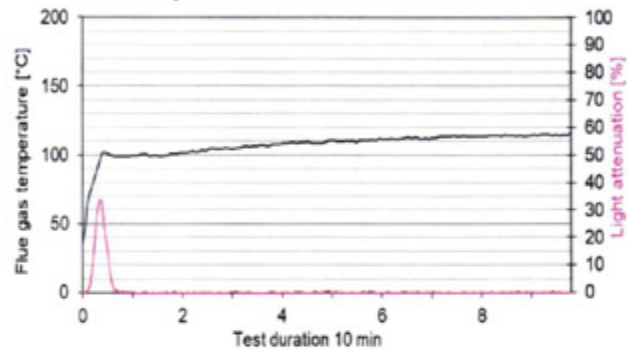
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## Fire shaft test #7816

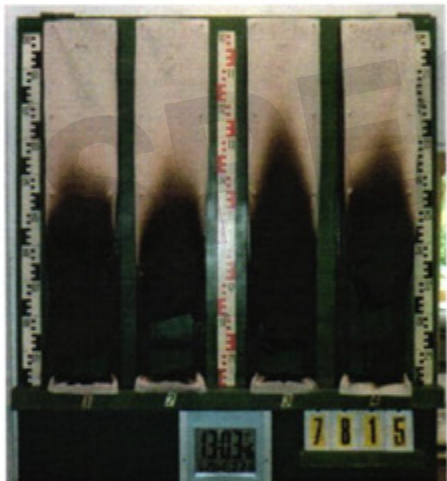


#7816, PN39075:

Max. flue temperature: 115°C, Smoke density integral: 9%/min  
Residual length: 35 cm

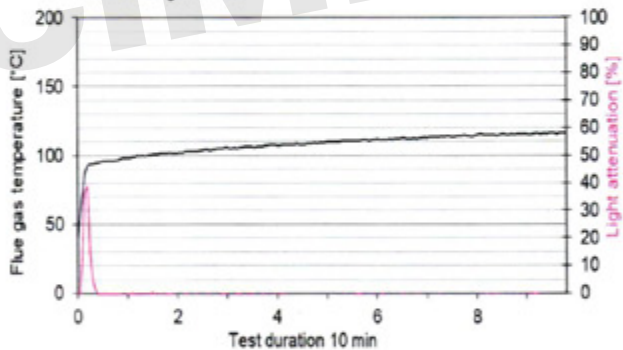


## Fire shaft test #7815

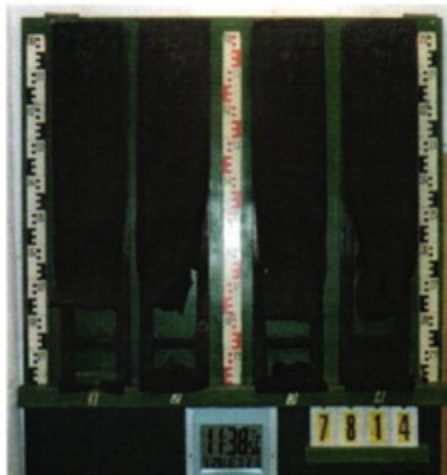


#7815, PN39074:

Max. flue temperature: 116°C, Smoke density integral: 1%/min  
Residual length: 38 cm

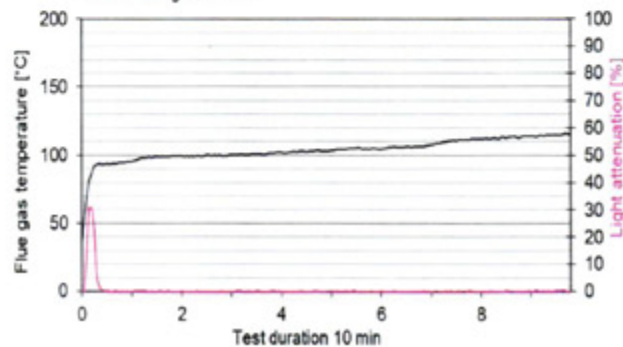


## Fire shaft test #7814



#7814, PN39073:

Max. flue temperature: 116°C, Smoke density integral: 5%/min  
Residual length: 48 cm



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uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



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# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

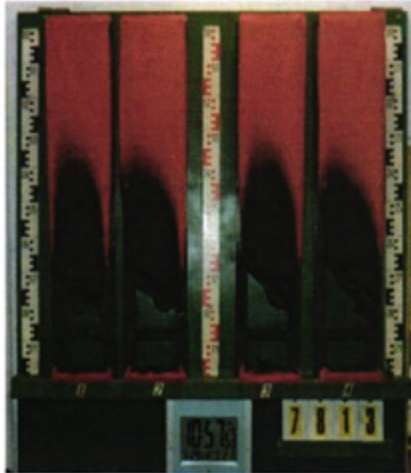
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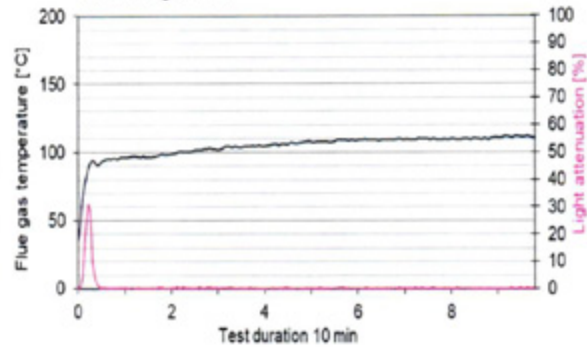
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## Fire shaft test #7813



#7813, PN39072:

Max. flue temperature: 112°C, Smoke density integral: 4%/min  
Residual length: 41 cm

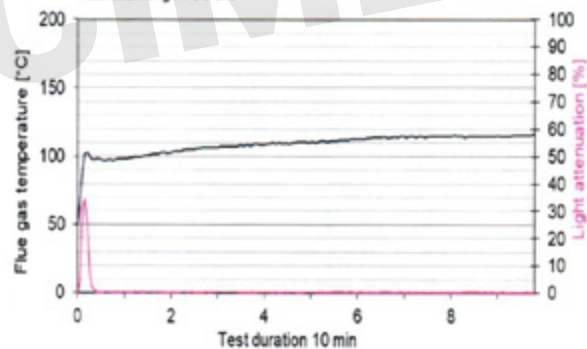


## Fire shaft test #7799

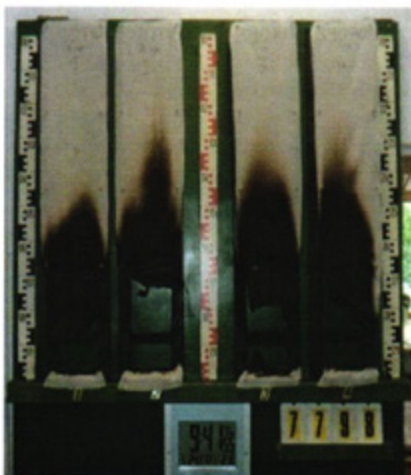


#7799, PN39071:

Max. flue temperature: 116°C, Smoke density integral: 4%/min  
Residual length: 50 cm

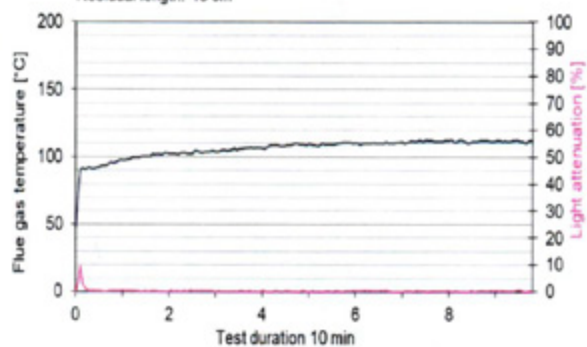


## Fire shaft test #7798



#7798, PN39070:

Max. flue temperature: 113°C, Smoke density integral: 2%/min  
Residual length: 46 cm



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



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Fabric: Muslin 3.05

Type: B1

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## Fire shaft test #7797

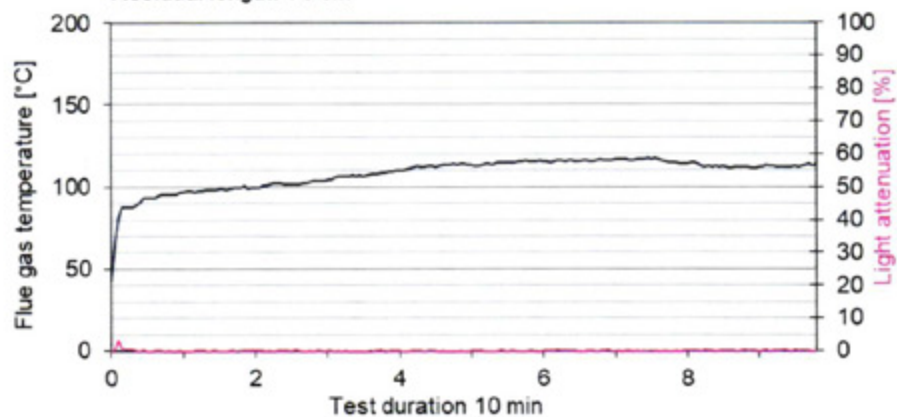


### measurement

#7797, PN39069:

Max. flue temperature: 118°C, Smoke density integral: 1%/min

Residual length: 76 cm



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



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Type: B1

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## Test for normal flammability classifying B2 according to DIN 4102 with fire tests according to EN ISO 11925-2

1. Description of test material in condition as delivered cf. page 2
2. Preparation of samples  
Samples for the ignitability apparatus were cut from the sample.  
The samples were kept in a climate 23/50 until they reached constant weight.  
Duration of flaming: 15 seconds
3. Arrangement of samples freely suspended  
Flaming side A and side B in warp and in weft direction
4. Date of test CW 20 in 2024
5. Results

| PN 39070:                                                            | edge-test |     |     |     |     |     | surface-test |     |     |     |     |     | Dim |
|----------------------------------------------------------------------|-----------|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|
| samples no.                                                          | 1         | 2   | 3   | 4   | 5   | 6   | 1            | 2   | 3   | 4   | 5   | 6   |     |
| side/direction                                                       | AS        | BS  | AK  | BK  | BK  | BS  | AS           | BS  | AK  | BK  | BK  | BS  |     |
| ignition <sup>1)</sup>                                               | 1         | 1   | 1   | 1   | 1   | 1   | 2            | 2   | 2   | 1   | 1   | 2   | s   |
| measurement mark reached <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -/- | -/- | -/-          | -/- | -/- | -/- | -/- | -/- | s   |
| maximum flame height                                                 | 5         | 6   | 5   | 4   | 4   | 5   | 4            | 5   | 5   | 4   | 4   | 6   | cm  |
| time of max. flame height                                            | 5         | 3   | 3   | 3   | 2   | 4   | 5            | 5   | 5   | 3   | 3   | 4   | s   |
| Self-cessation of flames <sup>1)</sup>                               | 6         | 5   | 5   | 4   | 4   | 5   | 6            | 6   | 6   | 5   | 5   | 6   | s   |
| end of glowing                                                       | 15        | 16  | 16  | 15  | 15  | 15  | 15           | 15  | 15  | 15  | 15  | 15  | s   |
| flames were extinguished after <sup>1)</sup>                         | -/-       | -/- | -/- | -/- | -/- | -/- | -/-          | -/- | -/- | -/- | -/- | -/- | s   |
| smoke development (visually)                                         | little    |     |     |     |     |     | moderate     |     |     |     |     |     |     |
| dropping of burning material <sup>1)2)</sup>                         | -/-       | -/- | -/- | -/- | -/- | -/- | -/-          | -/- | -/- | -/- | -/- | -/- | s   |
| Appearance after test: burned out till max. width 2 cm x height 7 cm |           |     |     |     |     |     |              |     |     |     |     |     |     |

| PN 39070:                                                            | edge-test   |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|----------------------------------------------------------------------|-------------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                          | 1           | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                       | AK          | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                               | -/-         | 2   | -/- | -/- | -- | -- | 4            | 3   | 2   | 2   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                             | -/-         | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                 | 2           | 2   | 2   | 2   | -- | -- | 3            | 4   | 4   | 4   | -- | -- | cm  |
| time of max. flame height                                            | -/-         | 5   | -/- | -/- | -- | -- | 6            | 6   | 4   | 5   | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                               | -/-         | 15  | -/- | -/- | -- | -- | 8            | 8   | 7   | 6   | -- | -- | s   |
| end of glowing                                                       | 15          | 15  | 15  | 15  | -- | -- | 15           | 15  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                         | -/-         | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                         | very little |     |     |     |    |    | little       |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                         | -/-         | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2 cm x height 9 cm |             |     |     |     |    |    |              |     |     |     |    |    |     |

<sup>1)</sup> time denoted relative to beginning of test

<sup>2)</sup> during 20 Sec

-/- no occurrence

-- no information

A side A B side B K warp S weft



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

[www.jcjoel.com](http://www.jcjoel.com)

# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

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enclosure 8 test report  
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| PN 39071:                                                              | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                            | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                         | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                 | 1         | 1   | 1   | 1   | -- | -- | 3            | 3   | 3   | 3   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                               | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                   | 4         | 4   | 4   | 5   | -- | -- | 5            | 6   | 6   | 6   | -- | -- | cm  |
| time of max. flame height                                              | 3         | 2   | 3   | 3   | -- | -- | 7            | 10  | 9   | 9   | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                 | 5         | 5   | 5   | 5   | -- | -- | 10           | 11  | 11  | 11  | -- | -- | s   |
| end of glowing                                                         | 15        | 16  | 15  | 16  | -- | -- | 16           | 16  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                           | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                           | moderate  |     |     |     |    |    | moderate     |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                           | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 1,7 cm x height 8 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |

| PN 39072:                                                                | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   | 2         | 2   | 2   | 1   | -- | -- | 3            | 4   | 3   | 3   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     | 5         | 4   | 3   | 3   | -- | -- | 5            | 5   | 5   | 5   | -- | -- | cm  |
| time of max. flame height                                                | 6         | 7   | 4   | 5   | -- | -- | 7            | 11  | 9   | 11  | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   | 10        | 9   | 7   | 8   | -- | -- | 13           | 14  | 15  | 14  | -- | -- | s   |
| end of glowing                                                           | 16        | 16  | 15  | 15  | -- | -- | 16           | 16  | 16  | 16  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             | little    |     |     |     |    |    | moderate     |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 7,5 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |

| PN 39073:                                                                | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   | 1         | 1   | 1   | 2   | -- | -- | 3            | 3   | 3   | 3   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     | 3         | 3   | 4   | 3   | -- | -- | 5            | 5   | 4   | 4   | -- | -- | cm  |
| time of max. flame height                                                | 5         | 5   | 6   | 5   | -- | -- | 9            | 13  | 11  | 9   | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   | 7         | 8   | 8   | 7   | -- | -- | 15           | 15  | 15  | 15  | -- | -- | s   |
| end of glowing                                                           | 16        | 15  | 15  | 15  | -- | -- | ./.          | 15  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             | little    |     |     |     |    |    | heavy        |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 1,5 cm x height 6,0 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

[www.jcjoel.com](http://www.jcjoel.com)

# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

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enclosure 9 test report  
PZ-Hoch-240738

| PN 39074:                                                                |  |  |  |  |  |  | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|--|--|--|--|--|--|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              |  |  |  |  |  |  | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           |  |  |  |  |  |  | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   |  |  |  |  |  |  | 1         | 1   | 1   | 1   | -- | -- | 3            | 4   | 3   | 3   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     |  |  |  |  |  |  | 5         | 5   | 4   | 3   | -- | -- | 5            | 5   | 5   | 5   | -- | -- | cm  |
| time of max. flame height                                                |  |  |  |  |  |  | 7         | 8   | 5   | 4   | -- | -- | 7            | 8   | 9   | 10  | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   |  |  |  |  |  |  | 10        | 9   | 7   | 6   | -- | -- | 10           | 11  | 15  | 15  | -- | -- | s   |
| end of glowing                                                           |  |  |  |  |  |  | 16        | 15  | 15  | 15  | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             |  |  |  |  |  |  | moderate  |     |     |     |    |    | heavy        |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 8,0 cm |  |  |  |  |  |  |           |     |     |     |    |    |              |     |     |     |    |    |     |
| PN 39075:                                                                |  |  |  |  |  |  | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
| samples no.                                                              |  |  |  |  |  |  | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           |  |  |  |  |  |  | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   |  |  |  |  |  |  | 5         | 4   | 4   | 4   | -- | -- | 4            | 4   | 5   | 3   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     |  |  |  |  |  |  | 4         | 3   | 3   | 3   | -- | -- | 2            | 5   | 4   | 4   | -- | -- | cm  |
| time of max. flame height                                                |  |  |  |  |  |  | 6         | 8   | 10  | 9   | -- | -- | 6            | 13  | 11  | 12  | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   |  |  |  |  |  |  | 8         | 10  | 14  | 12  | -- | -- | 15           | 15  | 15  | 15  | -- | -- | s   |
| end of glowing                                                           |  |  |  |  |  |  | 15        | 16  | 15  | 16  | -- | -- | 15           | 15  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             |  |  |  |  |  |  | little    |     |     |     |    |    | moderate     |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,3 cm x height 7,0 cm |  |  |  |  |  |  |           |     |     |     |    |    |              |     |     |     |    |    |     |
| PN 39076:                                                                |  |  |  |  |  |  | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
| samples no.                                                              |  |  |  |  |  |  | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           |  |  |  |  |  |  | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   |  |  |  |  |  |  | 2         | 1   | 2   | 3   | -- | -- | 6            | 5   | 6   | 5   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     |  |  |  |  |  |  | 3         | 3   | 3   | 3   | -- | -- | 2            | 2   | 2   | 2   | -- | -- | cm  |
| time of max. flame height                                                |  |  |  |  |  |  | 5         | 4   | 7   | 8   | -- | -- | 15           | 15  | 8   | 7   | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   |  |  |  |  |  |  | 7         | 14  | 15  | 13  | -- | -- | 10           | 15  | 15  | 15  | -- | -- | s   |
| end of glowing                                                           |  |  |  |  |  |  | 16        | 15  | 15  | 17  | -- | -- | 15           | 15  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             |  |  |  |  |  |  | moderate  |     |     |     |    |    | heavy        |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             |  |  |  |  |  |  | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm |  |  |  |  |  |  |           |     |     |     |    |    |              |     |     |     |    |    |     |

# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

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| PN 39077:                                                                | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   | 1         | 1   | 1   | 1   | -- | -- | -/-          | -/- | 10  | 9   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     | 5         | 4   | 5   | 4   | -- | -- | 2            | 2   | 5   | 5   | -- | -- | cm  |
| time of max. flame height                                                | 10        | 11  | 9   | 11  | -- | -- | -/-          | -/- | 14  | 13  | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   | 13        | 14  | 11  | 13  | -- | -- | -/-          | -/- | 15  | 15  | -- | -- | s   |
| end of glowing                                                           | 16        | 15  | 16  | 15  | -- | -- | 15           | 16  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             | moderate  |     |     |     |    |    | moderate     |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 9,0 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |

| PN 39078:                                                                | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   | 5         | 1   | 1   | 2   | -- | -- | -/-          | 6   | 7   | 5   | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     | 3         | 3   | 3   | 4   | -- | -- | 2            | 5   | 4   | 3   | -- | -- | cm  |
| time of max. flame height                                                | 9         | 7   | 6   | 8   | -- | -- | -/-          | 14  | 12  | 10  | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   | 12        | 11  | 11  | 11  | -- | -- | -/-          | 15  | 15  | 15  | -- | -- | s   |
| end of glowing                                                           | 15        | 15  | 15  | 15  | -- | -- | -/-          | 15  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             | little    |     |     |     |    |    | little       |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 8,0 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |

| PN 39079:                                                                | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   | 5         | 3   | 4   | 3   | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     | 2         | 3   | 2   | 2   | -- | -- | 2            | 2   | 2   | 2   | -- | -- | cm  |
| time of max. flame height                                                | 6         | 8   | 7   | 8   | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   | 15        | 15  | 15  | 15  | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| end of glowing                                                           | 22        | 22  | 22  | 22  | -- | -- | 15           | 15  | -/- | -/- | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             | moderate  |     |     |     |    |    | moderate     |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

[www.jcjoel.com](http://www.jcjoel.com)

# Fire Test Certificate - Specimen

Fabric: Muslin 3.05

Type: B1

**J&C Joel**   
Inspiration in every performance



Prüfinstitut Hoch

Lerchenweg 1  
D-97650 Fladungen

enclosure 11 test report  
PZ-Hoch-240738

| PN 39080:                                                                | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     | 2         | 2   | 2   | 2   | -- | -- | 2            | 2   | 2   | 2   | -- | -- | cm  |
| time of max. flame height                                                | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| end of glowing                                                           | 22        | 22  | 22  | 22  | -- | -- | -/-          | 16  | 15  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             | little    |     |     |     |    |    | little       |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 5,0 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |

| PN 39081:                                                                | edge-test |     |     |     |    |    | surface-test |     |     |     |    |    | Dim |
|--------------------------------------------------------------------------|-----------|-----|-----|-----|----|----|--------------|-----|-----|-----|----|----|-----|
| samples no.                                                              | 1         | 2   | 3   | 4   | 5  | 6  | 1            | 2   | 3   | 4   | 5  | 6  |     |
| side/direction                                                           | AK        | BK  | AS  | BS  | -- | -- | AK           | BK  | AS  | BS  | -- | -- |     |
| ignition <sup>1)</sup>                                                   | 6         | 7   | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| measurement mark reached <sup>1)2)</sup>                                 | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| maximum flame height                                                     | 2         | 2   | 2   | 2   | -- | -- | 2            | 2   | 2   | 2   | -- | -- | cm  |
| time of max. flame height                                                | 10        | 10  | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Self-cessation of flames <sup>1)</sup>                                   | 15        | 15  | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| end of glowing                                                           | 15        | 18  | 22  | 22  | -- | -- | -/-          | -/- | 12  | 15  | -- | -- | s   |
| flames were extinguished after <sup>1)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| smoke development (visually)                                             | moderate  |     |     |     |    |    | moderate     |     |     |     |    |    |     |
| dropping of burning material <sup>1)2)</sup>                             | -/-       | -/- | -/- | -/- | -- | -- | -/-          | -/- | -/- | -/- | -- | -- | s   |
| Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm |           |     |     |     |    |    |              |     |     |     |    |    |     |

<sup>1)</sup> time denoted relative to beginning of test  
A side A B side B K warp S weft

<sup>2)</sup> during 20 Sec -/- no occurrence -- no information

6. Remarks and explanations to the testing procedure - none -

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no dropping burning material.