

# Classic

Design – Börje Johanson



# JOHANSON



## Introduction

Solid, stable bar stools that have long been part of our range. Big sellers in the hotel and restaurant sector.

# Models

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**Classic 01-75**



**Classic 01-82**



**Classic 11-46**



**Classic 11-65**



**Classic 11-75**



**Classic 11-82**

# Material

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## Seat - Upholstery materials

Johanson offers a very generous range of fabrics, leather and artificial leather from the most reputable suppliers in the world. Should any other material be desired despite the wide selection, it is also possible to suggest other materials. Johanson does not charge start-up costs for handling non-standard materials.

## Multicolour - Finish RAL

Take part in Johanson's color range, 405 variants of different finishes are offered as standard on steel frames and metal details. Choose from all 195 RAL colors, alternatives are available both as solid finish (gloss 72) or Structure finish which has a matte, slightly textured elegant surface. In addition, 15 RAL colors with pearl finish and chrome are offered.

For all colours see [www.johansondesign.com](http://www.johansondesign.com)

**195 Solid collection** (gloss 72)

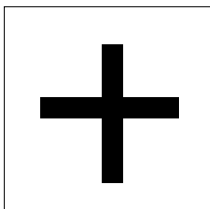
**195 Structure collection** (matte, textured surface)

**15 Pearl finish collection** and chrome.



# Accessories

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## Extra

Floor fixing

# Facts

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## Material

Fully upholstered barstool with moulded seat frame in polyether. FSC certified wood. The base is made of finished/lacquered metal.

## Fire classification

All products meet Möbelfakta's fire requirements. All polyether/foam are tested to Cal TB 117. All standard fabrics meet EN 1021:1 & 2. Other classification, for example BS 5856 (Crib 5) on request, please contact customer support.

## Recycling

All steel parts are recyclable. Before we finish the chrome/lacquer all grease/oil is removed by alkaline wash and then sent for destruction. The lacquering is produced by electrostatic epoxy powder coating that gives a minimum of waste. The electrostatic chrome (chrome 3) is recyclable. The plastic parts that are used are recyclable by grinding. All upholstery and frames of synthetic material are totally without C.F.C. emissions. All glue is water based.

**BIM - objects can be downloaded at**  
**[johansondesign.com](http://johansondesign.com)**



3D Max



Autocad 2D



Archicad



Autocad 3D



Revit



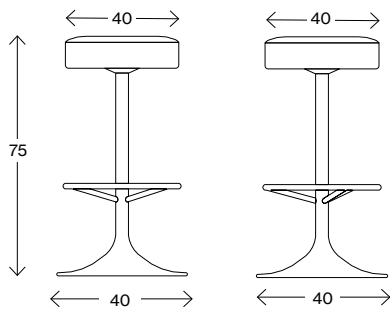
Sketchup



pCon

# Facts

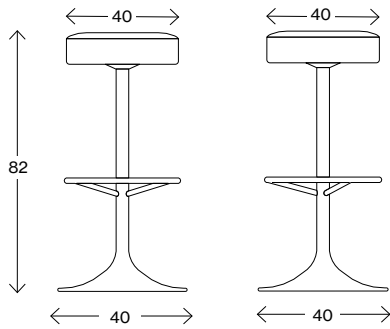
Measurements cm



**Classic 01-75**

Weight (kg) 8,5  
Volym (m³) 0,14  
Swivel base

Measurements cm

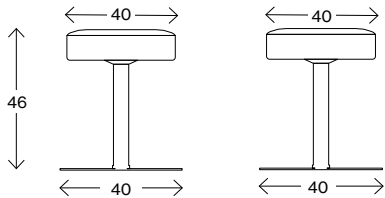


**Classic 01-82**

Weight (kg) 8,5  
Volym (m³) 0,14  
Swivel base

# Facts

Measurements cm

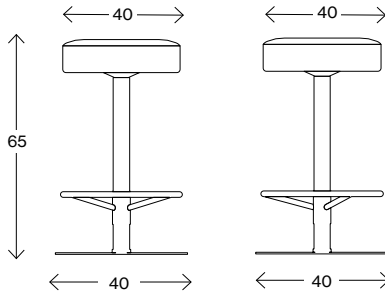


**Classic 11-46**

Weight (kg) 10,0  
Volym (m³) 0,077

Swivel base

Measurements cm

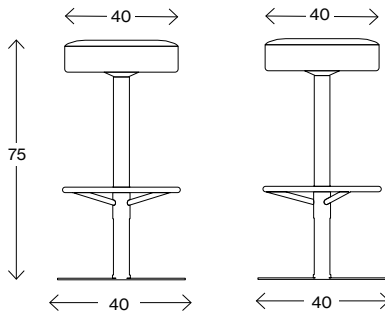


**Classic 11-65**

Weight (kg) 12,5  
Volym (m³) 0,11

Swivel base

Measurements cm

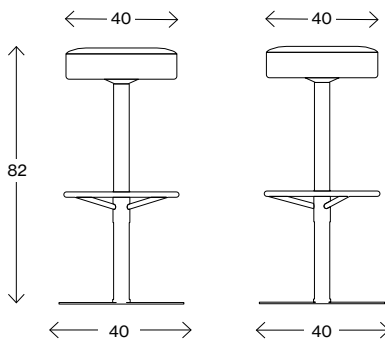


**Classic 11-75**

Weight (kg) 12,5  
Volym (m³) 0,11

Swivel base

Measurements cm



**Classic 11-82**

Weight (kg) 12,5  
Volym (m³) 0,11

Swivel base





# JOHANSON

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Tel +46-433 725 00 | [www.johansondesign.com](http://www.johansondesign.com)



## TEST REPORT

**Client:** Gabriel  
Hjulgagervej 55  
Postbox 59  
DK-9100 Aalborg  
Denmark

**Entry No:** 73587

**Date received:** 09/02/2016

**Client's Description:** Sample of fabric: Fame 61003 Beige

**Test Required:** Flammability

**Pre-treatment:** None

**Conditioning:** A minimum of 24 hours at 50+/-5% Relative Humidity, 23+/-2°C

**Date Tests Completed:** 10/02/2016

**Method of Test:** BS EN 1021-1: 2014 – smouldering cigarette <sup>F</sup>

| Ignition Source       | Observations                                                                                       | Result |
|-----------------------|----------------------------------------------------------------------------------------------------|--------|
| Smouldering cigarette | No flaming or progressive smouldering was observed within one hour of placement of the cigarettes. | PASS   |

**Note:** A 20-22 kg/m<sup>3</sup> non fire retardant polyurethane foam was used as the filling.

The above tests relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

During the tests the following data was recorded: -

### Smouldering cigarette

|                                                                 |             |             |     |
|-----------------------------------------------------------------|-------------|-------------|-----|
| Time of Ignition (sec)                                          | No Ignition | No Ignition | N/A |
| Time to extinction of flame after removal of butane flame (sec) | N/A         | N/A         | N/A |
| Time of Cover Split (sec)                                       | Split       | Split       | N/A |
| Melting (Yes or No)                                             | Yes         | Yes         | N/A |
| Dripping (Yes or No)                                            | No          | No          | N/A |
| Charring (Yes or No)                                            | Yes         | Yes         | N/A |
| Self-extinguished before smouldering full length (Yes or No)    | No          | No          | N/A |

-----End of Document-----

*This is hereby certified to be a correct return of the tests made of the items referred to herein*



Dale Brockbank  
Materials Testing Manager  
10 February 2016

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
  - ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
  - ❖ Tests marked <sup>F</sup> in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
  - ❖ Uncertainty budgets for test methods contained within this report are available on request.
- This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



1104



## TEST REPORT

**Client:** Gabriel  
 Hjulmagervej 55  
 Postbox 59  
 DK-9100 Aalborg  
 Denmark

**Entry No:** 84044

**Date received:** 27/04/2017

**Client's Description:** Sample of fabric: Fame 60005 Light Grey, BEA- West 200417, 95% Wool/5% Polyamide LT

**Test Required:** Flammability

**Pre-treatment:** None

**Conditioning:** A minimum of 24 hours at 50+/-5% Relative Humidity, 23+/-2°C

**Date Tests Completed:** 15/05/2017

**Method of Test:** BS EN 1021-2: 2014 – match flame equivalent

| Ignition Source        | Observations                                                                          | Result |
|------------------------|---------------------------------------------------------------------------------------|--------|
| Match flame equivalent | No flaming or progressive smouldering was observed after removal of the butane flame. | PASS   |

**Note:** A 20-22 kg/m<sup>3</sup> non fire retardant polyurethane foam was used as the filling.

The above tests relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

During the tests the following data was recorded: -

### Match flame equivalent

|                                                                 |               |               |               |
|-----------------------------------------------------------------|---------------|---------------|---------------|
| Time of Ignition (sec)                                          | 8             | 7             | 8             |
| Time to extinction of flame after removal of butane flame (sec) | 0             | 0             | 0             |
| Time of Cover Split (sec)                                       | Did not split | Did not split | Did not split |
| Melting (Yes or No)                                             | Yes           | Yes           | Yes           |
| Dripping (Yes or No)                                            | No            | No            | No            |
| Charring (Yes or No)                                            | Yes           | Yes           | Yes           |

-----End of Document-----

*This is hereby certified to be a correct return of the tests made of the items referred to herein*



Dale Brockbank  
 Materials Testing Manager  
 15 May 2017

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## TEST REPORT

**Client:** Gabriel  
Hjulgagervej 55  
Postbox 59  
DK-9100 Aalborg  
Denmark

**Entry No:** 73587

**Date received:** 09/02/2016

**Client's Description:** Sample of fabric: Fame 61003 Beige

**Test Required:** Flammability

**Pre-treatment:** None

**Conditioning:** A minimum of 24 hours at 50+/-5% Relative Humidity, 23+/-2°C

**Date Tests Completed:** 10/02/2016

**Method of Test:** BS EN 1021-1: 2014 – smouldering cigarette <sup>F</sup>

| Ignition Source       | Observations                                                                                       | Result |
|-----------------------|----------------------------------------------------------------------------------------------------|--------|
| Smouldering cigarette | No flaming or progressive smouldering was observed within one hour of placement of the cigarettes. | PASS   |

**Note:** A 20-22 kg/m<sup>3</sup> non fire retardant polyurethane foam was used as the filling.

The above tests relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

During the tests the following data was recorded: -

### Smouldering cigarette

|                                                                 |             |             |     |
|-----------------------------------------------------------------|-------------|-------------|-----|
| Time of Ignition (sec)                                          | No Ignition | No Ignition | N/A |
| Time to extinction of flame after removal of butane flame (sec) | N/A         | N/A         | N/A |
| Time of Cover Split (sec)                                       | Split       | Split       | N/A |
| Melting (Yes or No)                                             | Yes         | Yes         | N/A |
| Dripping (Yes or No)                                            | No          | No          | N/A |
| Charring (Yes or No)                                            | Yes         | Yes         | N/A |
| Self-extinguished before smouldering full length (Yes or No)    | No          | No          | N/A |

-----End of Document-----

*This is hereby certified to be a correct return of the tests made of the items referred to herein*



Dale Brockbank  
Materials Testing Manager  
10 February 2016

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1104



## TEST REPORT

**Client:** Gabriel  
 Hjulmagervej 55  
 Postbox 59  
 DK-9100 Aalborg  
 Denmark

**Entry No:** 84044

**Date received:** 27/04/2017

**Client's Description:** Sample of fabric: Fame 60005 Light Grey, BEA- West 200417, 95% Wool/5% Polyamide LT

**Test Required:** Flammability

**Pre-treatment:** None

**Conditioning:** A minimum of 24 hours at 50+/-5% Relative Humidity, 23+/-2°C

**Date Tests Completed:** 15/05/2017

**Method of Test:** BS EN 1021-2: 2014 – match flame equivalent

| Ignition Source        | Observations                                                                          | Result |
|------------------------|---------------------------------------------------------------------------------------|--------|
| Match flame equivalent | No flaming or progressive smouldering was observed after removal of the butane flame. | PASS   |

**Note:** A 20-22 kg/m<sup>3</sup> non fire retardant polyurethane foam was used as the filling.

The above tests relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

During the tests the following data was recorded: -

### Match flame equivalent

|                                                                 |               |               |               |
|-----------------------------------------------------------------|---------------|---------------|---------------|
| Time of Ignition (sec)                                          | 8             | 7             | 8             |
| Time to extinction of flame after removal of butane flame (sec) | 0             | 0             | 0             |
| Time of Cover Split (sec)                                       | Did not split | Did not split | Did not split |
| Melting (Yes or No)                                             | Yes           | Yes           | Yes           |
| Dripping (Yes or No)                                            | No            | No            | No            |
| Charring (Yes or No)                                            | Yes           | Yes           | Yes           |

-----End of Document-----

*This is hereby certified to be a correct return of the tests made of the items referred to herein*



Dale Brockbank  
 Materials Testing Manager  
 15 May 2017

❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.  
 ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.  
 ❖ Tests marked <sup>F</sup> in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.  
 ❖ Uncertainty budgets for test methods contained within this report are available on request.  
 This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



**TEST REPORT**

**Client:** Gabriel  
Hjulgagervej 55  
Postbox 59  
DK-9100 Aalborg  
Denmark

**Entry No:** 113785

**Date received:** 19/11/2019

**Client's Description:** Fabric: Fame 60999 Black. Composition: 95% Wool/ 5% Polyamide

**Test Required:** Flammability BS 5852: 1979 Ignition sources 0 & 1

**Pre-treatment:** None

**Conditioning:** A minimum of 96 hours at 50+/-20% Relative Humidity, 20+/-5°C

**Date Tests Completed:** 26/11/2019

**Method of Test:** BS 5852: Part 1: 1979

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

| Ignition Source  | Observations                                                                                                                     | Result |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|
| 0 (cigarette)    | No flaming or progressive smouldering was observed within one hour of placement of the cigarettes.                               | Pass   |
| 1 (butane flame) | Flaming ceased within the specified two minute period after removal of the butane flame and no progressive smouldering occurred. | Pass   |

**Note:** 20-22 kg/m<sup>3</sup> non fire retardant polyurethane foam

-----End of Page-----

*This is hereby certified to be a correct return of the tests made of the items referred to herein*

Daniel Young  
Senior Technologist  
06 January 2020

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
- ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
- ❖ Uncertainty budgets for test methods contained within this report are available on request.
- ❖ The results have been obtained for the above test are due to the allowances that have been made based on the uncertainty of the measurement for this test and its associated measurements.

This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.





**Client:** Gabriel

**Entry No:** 113785

During the tests the following data was recorded: -

|                                                                        | <b>Source 0</b> |               | <b>Source 1</b> |     |
|------------------------------------------------------------------------|-----------------|---------------|-----------------|-----|
| <b>Time of Ignition (sec)</b>                                          | No Ignition     | No Ignition   | 12              | 12  |
| <b>Time to extinction of flame after removal of butane flame (sec)</b> | N/A             | N/A           | 2               | 1   |
| <b>Time of Cover Split (sec)</b>                                       | Did Not Split   | Did Not Split | 19              | 19  |
| <b>Melting (Yes or No)</b>                                             | Yes             | Yes           | Yes             | Yes |
| <b>Dripping (Yes or No)</b>                                            | No              | No            | No              | No  |
| <b>Charring (Yes or No)</b>                                            | Yes             | Yes           | Yes             | Yes |
| <b>Other phenomena</b>                                                 |                 |               |                 |     |

-----End of Document-----



GOVMARK

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email: govmark.accounting@sgs.com

Page 1

|                                                                                                               |                                                                                                                                   |           |    |                                                                                                          |                |             |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|----|----------------------------------------------------------------------------------------------------------|----------------|-------------|
| Received: 11/16/2018                                                                                          | Completed: 11/21/2018                                                                                                             | Letter: F | BG | P.O.#:                                                                                                   | Test Report #: | 3-29638-0-  |
| Client's Identification                                                                                       | Style: Fame. Content: 95% Wools of New Zealand / 5% Polyamide. Weight: 630 g/lm. Color: 61136 Beige. Product End Use: Upholstery. |           |    |                                                                                                          |                |             |
| Tested For: Bente Ellingsoe, Quality Department<br>Gabriel A/S<br>Hjulmagervej 55<br>DK-9000 Aalborg, Denmark |                                                                                                                                   |           |    | Key Test: CA TB 117-2013 (Section 1-Cover Fabric) /ACT<br>Tel: 011-45-9630-3100<br>Fax: 011-45-9811-6125 |                | 235<br>Ext: |

Test Category: Cigarette Ignition      Specifier: ACT      LE 2015; V 08/15      NTR 9/15  
Product Category: Upholstery      PC: 24H      dl/SM

TEST PERFORMED: California Technical Bulletin 117-2013 - Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture (June 2013 Version; V 1/18)

Section 1, Cover Fabric Test (Upholstery cover material is the outermost layer of fabric or related material used to enclose the main support system or upholstery materials, or both, used in the furniture item.) --

As cited by the ACT Voluntary Performance Guidelines (January 2015)

REFERENCE: ASTM E1353-08ae1

IGNITION SOURCE: SRM 1196 Cigarette

SPECIMEN TEST COMPOSITE:

Upholstery Cover Material: As described in "Client's Identification".

Standard Substrate Material: Non FR polyurethane foam, density  $1.8 \pm 0.05$  lb/ft<sup>3</sup>

BRIEF DESCRIPTION OF TEST: Miniature cushions are prepared using the client's cover fabric over the standard filling material. The vertical or back cushions measure 8" x 8" x 2". The horizontal or seat cushions measure 8" x 5" x 2".

A lighted cigarette is placed in the crevice formed by the vertical cushion and the horizontal cushion.

The test is terminated at 45 minutes if smoldering is no longer observed.

Test measurements and observations are recorded.

-- See Page 3 for "Results" and "Conclusion" --



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Page 2

|                                                 |                                                                                                                                   |           |                                                        |        |                |            |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------|--------|----------------|------------|
| Received: 11/16/2018                            | Completed: 11/21/2018                                                                                                             | Letter: F | BG                                                     | P.O.#: | Test Report #: | 3-29638-0- |
| Client's Identification                         | Style: Fame. Content: 95% Wools of New Zealand / 5% Polyamide. Weight: 630 g/lm. Color: 61136 Beige. Product End Use: Upholstery. |           |                                                        |        |                |            |
| Tested For: Bente Ellingsoe, Quality Department |                                                                                                                                   |           | Key Test: CA TB 117-2013 (Section 1-Cover Fabric) /ACT |        |                | 235        |
| Gabriel A/S                                     |                                                                                                                                   |           | Tel: 011-45-9630-3100                                  |        |                | Ext:       |
| Hjulgagervej 55                                 |                                                                                                                                   |           | Fax: 011-45-9811-6125                                  |        |                |            |
| DK-9000 Aalborg, Denmark                        |                                                                                                                                   |           |                                                        |        |                |            |

PASS/FAIL/REPEAT CRITERIA: A material is considered to pass or fail based on the following criteria:

1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
  - a) The mock-up test specimen continues to smolder after the 45 minute test duration;
  - b) A vertical char length (measured as specified in step 11.9 of ASTM E1353-08ae1) of more than 1.8 inches (45 mm) develops on the cover fabric.
  - c) The mock-up test specimen transitions to open flaming.
2. The cover fabric passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn their entire length and the mock-ups are no longer smoldering.
3. If more than one initial specimen fails, the cover fabric fails the test.
4. If any one of the three initial specimens fails, repeat the test on additional three specimens.
5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test.

DISCUSSION: The current version of California Technical Bulletin 117-2013 has no provision to recognize cigarettes that self-extinguish prior to burning their entire length. However, ASTM E 1353 does recognize this phenomenon.

The SGS Govmark report evaluates replacement cigarettes as follows:

If a cigarette self-extinguishes (SE) before burning its entire length, a new cigarette is placed into the test. If the new (replacement) cigarette self-extinguishes or burns its entire length, the result for that specimen will then be evaluated as if the cigarette burned its entire length when assigning the "Passing/Failure" conclusion.



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email: govmark.accounting@sgs.com

Page 3

Received: 11/16/2018 Completed: 11/21/2018 Letter: F BG P.O.#: Test Report #: 3-29638-0-

Client's Identification Style: Fame. Content: 95% Wools of New Zealand / 5% Polyamide. Weight: 630 g/lm. Color: 61136 Beige. Product End Use: Upholstery.

Tested For: Bente Ellingsoe, Quality Department

Gabriel A/S

Hjulgagervej 55

DK-9000 Aalborg, Denmark

Key Test: CA TB 117-2013 (Section 1-Cover Fabric) /ACT

235

Tel: 011-45-9630-3100

Ext:

Fax: 011-45-9811-6125

#### RESULTS:

|               | Specimen # | Char Length<br>(inches) | SE<br>(yes/no) | SB45<br>(yes/no) | TOF<br>(yes/no) |
|---------------|------------|-------------------------|----------------|------------------|-----------------|
| Initial:      | 1          | 0.3                     | No             | No               | No              |
|               | 2          | 0.3                     | No             | No               | No              |
|               | 3          | 0.3                     | No             | No               | No              |
| Replacement:  | 1          |                         |                |                  |                 |
| (If needed)   | 2          |                         |                |                  |                 |
|               | 3          |                         |                |                  |                 |
| Repeat Tests: | 1          |                         |                |                  |                 |
| (If needed)   | 2          |                         |                |                  |                 |
|               | 3          |                         |                |                  |                 |

#### EXPLANATION:

Initial: These are the first 3 cigarettes where the results could be sufficient to draw a test conclusion.

Replacement: If any of the initial cigarettes self-extinguish before burning their complete length, a new test is conducted with a fresh cigarette.

Repeat Test: Depending on the initial or replacement results, 3 repeat tests might be required to draw a conclusion.

#### CODES USED:

SE = Cigarette self-extinguished; See "Discussion" on Page 2

SB45 = Smolder beyond 45 minutes

TOF = Transitions to open flaming

MNR = Measurement not recorded as smoldering exceeded 45 minutes or specimen transitioned to open flames

EC = Escalating smoldering combustion: Extinguished by technician at:  
(mm: ss) \_\_\_\_\_ : \_\_\_\_\_ due to unsafe conditions.

#### CONCLUSION:

The above results reported for the initial and / or replacement cigarettes are sufficient to indicate:

☒ Passing; ☐ Failure; ☐ Repeat test on 3 additional specimens

The results after conducting the repeat tests indicate:

☐ Passing; ☐ Failure

**SGS****GOVMARK**

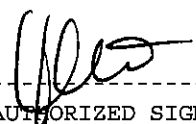
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Tel. +1 (631) 293-8944 Fax +1 (631) 293-8956  
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|                                                                                                               |                                                                                                                                   |           |                                                                                                          |        |                |             |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------|--------|----------------|-------------|
| Received: 11/16/2018                                                                                          | Completed: 11/21/2018                                                                                                             | Letter: F | BG                                                                                                       | P.O.#: | Test Report #: | 3-29638-0-  |
| Client's Identification                                                                                       | Style: Fame. Content: 95% Wools of New Zealand / 5% Polyamide. Weight: 630 g/lm. Color: 61136 Beige. Product End Use: Upholstery. |           |                                                                                                          |        |                |             |
| Tested For: Bente Ellingsoe, Quality Department<br>Gabriel A/S<br>Hjulmagervej 55<br>DK-9000 Aalborg, Denmark |                                                                                                                                   |           | Key Test: CA TB 117-2013 (Section 1-Cover Fabric) /ACT<br>Tel: 011-45-9630-3100<br>Fax: 011-45-9811-6125 |        |                | 235<br>Ext: |

REMARKS: None.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

  
-----  
AUTHORIZED SIGNATURE  
SGS GOVMARK

Phyllis Pettit

JAN 07 2019

/gb /pm

(Page 4 of 4)



CARPENTER

We bring comfort to your life.™

Carpenter Sweden AB  
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# RICHFOAM® POLYETHER

| European<br>Standard<br>Reference | Sweden<br>Standard<br>Reference | Colour         | Code       | Width | Height | Density              | CLD                | ILD     | Fire behaviour <sup>(8)</sup> |                          |                       |                                                            | Guide for Use |
|-----------------------------------|---------------------------------|----------------|------------|-------|--------|----------------------|--------------------|---------|-------------------------------|--------------------------|-----------------------|------------------------------------------------------------|---------------|
|                                   |                                 |                |            |       |        | kg/m³ <sup>(1)</sup> | kPa <sup>(2)</sup> | Newtons |                               |                          |                       |                                                            |               |
|                                   |                                 |                |            |       |        | Nett <sup>(7)</sup>  | CLD 40%            | ILD 40% |                               |                          |                       |                                                            |               |
|                                   |                                 |                |            | cm    | cm     |                      |                    |         | FMVSS302 <sup>(4)</sup>       | CA TB 117 <sup>(5)</sup> | CRIB V <sup>(6)</sup> | OEKO-TEX <sup>(9)</sup>                                    |               |
| RP23020                           | RP23080                         | White          | H90        | 203   | 124    | 21                   | 2,0                | 80      |                               |                          | x                     | Backrest cushion                                           |               |
| RP23030                           | RP23120                         | White<br>Black | H90<br>H78 | 203   | 115    | 21                   | 3,0                | 120     |                               |                          | x                     | Backrest cushion and mattresses<br>Dark colour for package |               |
| RP25023                           | RP25090                         | White          | H90        | 203   | 120    | 23                   | 2,3                | 90      |                               |                          | x                     | Backrest cushion and bedding toppers                       |               |
| RP25035                           | RP25140                         | White          | H90        | 204   | 124    | 23                   | 3,5                | 140     |                               |                          | x                     | Backreset cushion and beds                                 |               |
| RP27030                           | RP27120                         | White          | H90        | 205   | 124    | 25                   | 3,0                | 120     |                               |                          | x                     | Mattresses and backrest cushion                            |               |
| RP28036                           | RP28145                         | Yellow         | H12        | 204   | 120    | 26                   | 3,6                | 145     |                               |                          | x                     | Mattresses and beds                                        |               |
| RP28048                           | RP28190                         | Yellow         | H12        | 205   | 118    | 26                   | 4,8                | 190     |                               |                          | x                     | Beds and furniture                                         |               |
| RP30023                           | RP30090                         | White          | H90        | 204   | 110    | 28                   | 2,3                | 90      |                               |                          | x                     | Beds and furniture                                         |               |
| RP30038                           | RP30150                         | White          | H90        | 202   | 110    | 28                   | 3,8                | 150     |                               |                          | x                     | Seat cushions                                              |               |
| RP35025                           | RP35100                         | White          | H90        | 206   | 105    | 33                   | 2,5                | 100     |                               |                          | x                     | Seat cushions and bedding toppers                          |               |
| RP35034                           | RP35135                         | White          | H90        | 211   | 105    | 33                   | 3,4                | 135     |                               |                          | x                     | Seat cushions and mattresses                               |               |
| RP35039                           | RP35155                         | Blue           | H52        | 206   | 108    | 33                   | 3,9                | 155     |                               |                          | x                     | Seat cushions and beds                                     |               |
| RP35044                           | RP35175                         | Yellow         | H12        | 205   | 106    | 33                   | 4,4                | 175     |                               |                          | x                     | Beds and furniture                                         |               |
| RP35046                           | RP35185                         | Yellow         | H12        | 205   | 111    | 33                   | 4,6                | 185     |                               |                          | x                     | Beds and furniture                                         |               |
| RP35059                           | RP35235                         | White          | H90        | 205   | 111    | 33                   | 5,9                | 235     |                               |                          | x                     | Beds and furniture                                         |               |

# RICHFOAM® FR POLYETHER

|         |         |      |     |     |     |    |     |     |                         |  |   |                                        |
|---------|---------|------|-----|-----|-----|----|-----|-----|-------------------------|--|---|----------------------------------------|
| RF28035 | RF28140 | Grey | H75 | 205 | 117 | 26 | 3,5 | 140 | FMVSS302 <sup>(4)</sup> |  | x | Acoustic and automotive applications   |
| RF40033 | RF40130 | Blue | H52 | 206 | 105 | 38 | 3,3 | 130 | FMVSS302 <sup>(4)</sup> |  | x | Mattresses and automotive applications |

# SPECIAL PROGRAM

|         |         |       |     |     |     |    |     |    |  |  |   |                                   |
|---------|---------|-------|-----|-----|-----|----|-----|----|--|--|---|-----------------------------------|
| HS23014 | HS23055 | White | H90 | 214 | 109 | 21 | 1,4 | 55 |  |  | x | Extra soft for cushions           |
| HS45018 | HS45070 | White | H90 | 206 | 82  | 43 | 1,8 | 70 |  |  | x | Bedding toppers and back cushions |

# CELSIUS® VISCO ELASTIC FOAM

|         |         |        |     |     |    |    |     |     |  |  |   |                                |
|---------|---------|--------|-----|-----|----|----|-----|-----|--|--|---|--------------------------------|
| VE50015 | VE50062 | White  | H90 | 204 | 90 | 48 | 1,5 | 60  |  |  | x | Mattresses and bedding toppers |
| VE52020 | VE52080 | Yellow | H13 | 204 | 90 | 50 | 2,0 | 80  |  |  | x | Mattresses and bedding toppers |
| VE55025 | VE55100 | Yellow | H13 | 205 | 90 | 53 | 2,5 | 100 |  |  | x | Mattresses and bedding toppers |

# RICHLUX® HIGH RESILIENCE

| European<br>Standard<br>Reference | Sweden<br>Standard<br>Reference | Colour      | Code | Width | Height | Density<br>kg/m³ <sup>(1)</sup><br>Nett <sup>(7)</sup> | CLD<br>kPa <sup>(2)</sup><br>CLD 40% | ILD<br>Newtons<br>ILD 40% | Fire behaviour <sup>(8)</sup>                       | Guide for Use                           |
|-----------------------------------|---------------------------------|-------------|------|-------|--------|--------------------------------------------------------|--------------------------------------|---------------------------|-----------------------------------------------------|-----------------------------------------|
|                                   |                                 |             |      | cm    | cm     |                                                        |                                      |                           | OEKO-TEX <sup>(9)</sup>                             |                                         |
| HR24016                           | HR24065                         | Light green | H62  | 203   | 108    | 22                                                     | 1,6                                  | 65                        | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Backrest cushions                     |
| HR32019                           | HR32075                         | White       | H90  | 205   | 108    | 30                                                     | 1,9                                  | 75                        | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Backrest cushions and bedding toppers |
| HR32029                           | HR32115                         | Yellow      | H12  | 213   | 112    | 30                                                     | 2,9                                  | 115                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Seat cushions and mattresses          |
| HR35025                           | HR35100                         | White       | H90  | 204   | 108    | 33                                                     | 2,5                                  | 100                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Seat cushions and bedding toppers     |
| HR35034                           | HR35135                         | Yellow      | H12  | 211   | 102    | 33                                                     | 3,4                                  | 135                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Seat cushions and mattresses          |
| HR38038                           | HR38150                         | Yellow      | H12  | 211   | 98     | 36                                                     | 3,8                                  | 150                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Seat cushions and mattresses          |
| HR44049                           | HR44195                         | White       | H90  | 205   | 86     | 42                                                     | 4,9                                  | 195                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Seat cushions and beds                |
| HR44054                           | HR44215                         | White       | H90  | 205   | 84     | 42                                                     | 5,4                                  | 215                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Seat cushions and beds                |
| HR50028                           | HR50110                         | Yellow      | H12  | 213   | 87     | 48                                                     | 2,8                                  | 110                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Seat cushions and mattresses          |
| HR50068                           | HR50270                         | Blue        | H52  | 203   | 70     | 48                                                     | 6,8                                  | 270                       | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> | x Hard seat cushions and beds           |
| HR53021                           | HR53085                         | Grey        | H70  | 205   | 85     | 51                                                     | 2,1                                  | 85                        | FMVSS302(4), CAL TB 117 <sup>(5)</sup>              | x Seat cushions and mattresses, toppers |
| HR65018                           | HR65071                         | White       | H90  | 205   | 85     | 53                                                     | 1,8                                  | 70                        | FMVSS302(4), CAL TB 117 <sup>(5)</sup>              | x Seat cushions and mattresses, toppers |

# RICHGUARD® COMBUSTION MODIFIED HIGH RESILIENCE

|         |         |       |     |     |     |    |     |     |                                                                             |                                         |
|---------|---------|-------|-----|-----|-----|----|-----|-----|-----------------------------------------------------------------------------|-----------------------------------------|
| RG32031 | RG32125 | White | H90 | 205 | 100 | 30 | 3.1 | 125 | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> , Crib V <sup>(6)</sup> | x CMHR for mattresses and seat cushions |
| RG45049 | RG45195 | Green | H55 | 205 | 91  | 43 | 4,9 | 195 | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> , Crib V <sup>(6)</sup> | x CMHR for seat cushions                |
| RG55070 | RG55280 | White | H90 | 203 | 80  | 53 | 7,0 | 280 | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> , Crib V <sup>(6)</sup> | x CMHR for hard seat cushions           |

# MOULDED FOAMS

|        |          |           |     |  |  |    |  |  |                                                                             |   |
|--------|----------|-----------|-----|--|--|----|--|--|-----------------------------------------------------------------------------|---|
| RP5500 | RP 55 00 | Dark Grey | H78 |  |  | 55 |  |  |                                                                             |   |
| HR5500 | HR 55 00 | White     | H90 |  |  | 55 |  |  | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> E4 <sup>(10)</sup>      | x |
| MD5500 | MD 55 00 | White     | H90 |  |  | 53 |  |  | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> E4 <sup>(10)</sup>      | x |
| RG6000 | RG 60 00 | Green     | H62 |  |  | 58 |  |  | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> , Crib V <sup>(6)</sup> | x |
| RG7500 | RG 75 00 | Green     | H62 |  |  | 73 |  |  | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup> , Crib V <sup>(6)</sup> | x |
| VE8000 | VE 80 00 | White     | H90 |  |  | 78 |  |  | FMVSS302 <sup>(4)</sup> , CAL TB 117 <sup>(5)</sup>                         | x |

- (1) ISO 845  
 (2) ISO 3386/1 (INDICATIVE)  
 (3) EN ISO 2439/B  
 (4) Federal Motor Vehicle Safety Standard 302  
 (5) California Technical Bulletin 117-2013, Section 3  
 (6) Furniture and Furnishings (Fire)(Safety) Regulations SI 1324 1988, Amended 1989, 1993, 2010  
 (7) Nett density (Kg/m³)  
 (8) - Reduced burning characteristics are guaranteed when leaving the factory.  
       - Carpenter Sweden AB cannot be held responsible for further treatment.  
 (9) Oeko-Tex Standard 100 product class I, certificate number 1276-203  
 (10) - Type-approved and Certified by the RDW  
       - Horizontal Burning rate according to ECE Regulation No 118, Annex 6  
       - Vertical burning rate according to ECE Regulation No. 118, Annex 8

- The given figures are average values to which our tolerances apply; susceptible to alterations.

| Tolerance*           | Length (cm) | Width (cm) | Height (cm) |
|----------------------|-------------|------------|-------------|
| AM/AS/RF/RS/RX       | 0+2         | 0+2        | 0+4         |
| AU/RG/HR/LS/NA/GC/HS | 0+2         | 0+7        | 0+4         |
| VA/VC/VE/VG/VL/NV    | 0+3         | 0+7        | 0+5         |

\* Not valid for moulded foams

| Net Density <sup>(1)*</sup> |     | Hardness <sup>(3)</sup> |      |
|-----------------------------|-----|-------------------------|------|
| Min.                        | -5% | Min.                    | -15% |
| Max                         | +5% | Max                     | +15% |

\* Not valid for moulded foams

#### Tolerance Moulded Foams

| Net Density <sup>(1)</sup> |      | Hardness <sup>(3)</sup> |   |
|----------------------------|------|-------------------------|---|
| Min.                       | -10% | Min.                    | x |
| Max                        | +10% | Max                     | x |

#### CODE-KEY FOR LETTERS

|    |                                           |
|----|-------------------------------------------|
| AM | Antimicrobial Polyether                   |
| AS | Antistatic Polyether                      |
| AU | Aurora                                    |
| FL | Flame Laminatable Polyether               |
| GC | Large cell Polyether                      |
| HR | High Resilience                           |
| HS | Hypersoft                                 |
| HY | Hybrid                                    |
| LS | Lastilux                                  |
| NA | Naturalis                                 |
| NV | Naturalis Visco                           |
| RB | Richbond Combustion Modified Rebond       |
| RF | Fire retardent Polyether                  |
| RG | Combustion Modified High Resilience       |
| RP | Standard Polyether                        |
| RS | Sponge                                    |
| RX | Combustion Modified Polyether             |
| SE | Serene                                    |
| VA | Celsius Visco elastic with antimicrobial  |
| VC | Celsius Combustion modified Visco elastic |
| VE | Celsius Visco Elastic                     |
| VG | Clima Visco Elastic                       |
| VL | Celsius Combustion Modified Viscolux.     |

#### CODE – KEY FOR FOAM PROCESS

|   |                    |
|---|--------------------|
| V | Vertical process   |
| H | Horizontal process |



RDW



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