

Sam Yuen Carpet Development Ltd. 源地氈發展有限公司

九龍佐敦德興街11號興富中心701室

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TECHNICAL SPECIFICATIONS

Quality

: WT - Collection

Yarn Fiber

: 100% Wool

Width

: 13'-2" (4.00M)

Pile Weight

 $: \pm 27 \text{ oz./yd}^2 (900 \text{ g/m}^2)$

Pile Height

: ± 6.0 mm

Total Height

: ± 7.5 mm

Gauge and Structure : 5/32 " Multi Level Loop Machine Tufted

Primary Backing

: 100% Woven Polypropylene

Secondary Backing

: Jute Back

Fire Classification

: EN 13501-1 : 2007 + A1 : 2009 (E)

EN ISO 9239-1: 2010 EN ISO 11925-2: 2010

Rating: $B_{fl} - S1$

Flammability Test

: SGS BS 4790: 1987 / BS 5287 : 1988

Certificate

: EN 14041 : 2004



No. SDHG1504005419FB

Date: May.05, 2015

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The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description

: WOOL TUFTED CARPET

Style / Item No.

: 61

Manufacturer

. .

Sample Receiving Date

: Apr.21, 2015

Test Performing Date

: Apr.21, 2015 to May.05, 2015

Test Result Summary

| No. | Test(s) Requested | Result(s) | Comments |
|-------|--|---------------------------------------|----------|
| 1 | EN 13501-1:2007+A1:2009(E) | Classification: B ₀ —s1 | 1 |
| For f | urther details, please refer to the following page | (s) | |

Signed for and on behalf of SGS-CSTC Co., Ltd.

bette

Irvette Zhang Approved signatory



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Test Conducted

This test is conducted as per EN 13501-1:2007+A1:2009(E) Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests, Class B_{fl}. And the test methods as following:

- 1. EN ISO 9239-1:2010 Reaction to fire tests for floorings—Part 1: Determination of the burning behaviour using a radiant heat source.
- 2. EN ISO 11925-2:2010 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

Details of classified product

Description

The details of the tested specimen given below have been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

| Name: | Wool tufted carpet | |
|---------------|------------------------|--|
| Color: | Beige | |
| Area density: | 3.22 kg/m ² | |
| Thickness: | About 8 mm | |

11. **Test Result**

EN ISO 9239-1:2002 Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source

| Specimen No. | Furthest extent of spread of flame(mm) | Critical Heat Flux (CHF or HF-30) kW/m ² | Comments and Observation |
|---------------|--|---|--------------------------|
| 1(Lengthwise) | 70 | ≥11 | Charring |
| 2(Crosswise) | 50 | ≥11 | Charring |
| 3(Lengthwise) | 60 | ≥11 | Charring |
| 4(Lengthwise) | 80 | ≥11 | Charring |

The mean value for the critical heat flux (CHF and/or HF-30) from the three specimens from the same orientation: ≥11 kW/m²

Smoking measurement



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Integrated smoke value: 0.823 %×min

 EN ISO 11925-2: 2002 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test

| Ignition Position | Surface Ignition and Edge ignition | | | | |
|------------------------|------------------------------------|---|--|--|--|
| Flame Application Time | 15s | 5 | | | |

Ignition Position: Surface Ignition

| | Specimen No. & Result | | | | | | |
|---|-----------------------|-----|-----|-----------|-----|-----|--|
| Expression of results | Lengthwise | | | Crosswise | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| Whether ignition occurs (Yes/No) | Yes | Yes | Yes | Yes | Yes | Yes | |
| Whether the flame tip reaches 150 mm above the flame application point, and the time at which this occurs (No/Time) | No | No | No | No | No | No | |
| Whether ignition of the filter paper occurs (Yes/No) | No | No | No | No | No | No | |

Ignition Position: Edge ignition

| | Specimen No. & Result | | | | | | |
|---|-----------------------|-----|-----|-----------|-----|-----|--|
| Expression of results | Lengthwise | | | Crosswise | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| Whether ignition occurs (Yes/No) | Yes | Yes | Yes | Yes | Yes | Yes | |
| Whether the flame tip reaches 150 mm above the flame application point, and the time at which this occurs (No/Time) | No | No | No | No | No | No | |
| Whether ignition of the filter paper occurs (Yes/No) | No | No | No | No | No | No | |

III. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

Classification

The product, "WOOL TUFTED CARPET", classification is as following,



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| Fire behaviour | Smoke | production |
|-----------------|-------|------------|
| B _{fl} | s | 1 |

Reaction to fire classification: B_{II}-s1

Remark: The classes with their corresponding fire performance are given in annex A. Reaction to fire classification is based on the 7-step scale of A1 $_{\rm fl}$ to F $_{\rm fl}$, where A1 $_{\rm fl}$ is good and F $_{\rm fl}$ is

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Warning: This classification report does not represent type approval or certification of the product. The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Annex A

Classes of reaction to fire performance for floorings

| °C; and %; and . no sustained flaming) 0 MJ/kg ^a and 0 MJ/kg ^b and 4 MJ/m ^{2 c} and 0 MJ/kg ^d |
|---|
| %; and . no sustained flaming) 0 MJ/kg ^a and 0 MJ/kg ^b and 4 MJ/m ^{2 c} and 0 MJ/kg ^d |
| no sustained flaming) 0 MJ/kg ^a and 0 MJ/kg ^b and 4 MJ/m ^{2 c} and 0 MJ/kg ^d |
| 0 MJ/kg ^a and 0 MJ/kg ^b and 4 MJ/m ^{2 c} and 0 MJ/kg ^d |
| 0 MJ/kg ^b and 4 MJ/m ^{2 c} and 0 MJ/kg ^d |
| 0 MJ/kg ^d |
| 0 MJ/kg ^d |
| on and |
| °C and - |
| % and |
| |
| 0 MJ/kg ^a and |
| 0 MJ/m ^{2 b} and |
| 0 MJ/m ^{2 c} and |
| 0 MJ/kg ^d |
| ux ^t ≥ 8,0 kW/m ² Smoke production ^g |
| - Management |
| |



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| Bf | EN ISO 9239-1 ^e and | Critical flux [†] ≥ 8,0 kW/m ² | Smoke production ^g | |
|-----------------|--|--|-------------------------------|--|
| | EN ISO 11925-2 h: Exposure = 15 s | Fs ≤ 150 mm within 20 s | - | |
| Cf | EN ISO 9239-1 ^e and | Critical flux [†] ≥ 4,5 kW/m ² | Smoke production ^g | |
| | EN ISO 11925-2 ⁿ : Exposure = 15 s | Fs ≤ 150 mm within 20 s | | |
| D _{fl} | EN ISO 9239-1 ^e and | Critical flux 1≥ 3,0 kW/m2 | Smoke production ⁹ | |
| | EN ISO 11925-2 ⁿ : Exposure = 15 s | Fs≤150mm within 20 s | | |
| En | EN ISO 11925-2 h: Exposure = 15 s | Fs ≤ 150 mm within 20 s | | |
| Fn | No performance determined | | | |

For homogeneous products and substantial components of non-homogeneous products.

Photo Appendix:



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For any external non-substantial component of non-homogeneous products. ^c For any internal non-substantial component of non-homogeneous products.

^d For the product as a whole.

e Test duration = 30 min.

Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).

^g **s1** = Smoke ≤ 750 % minutes;

s2 = not s1.

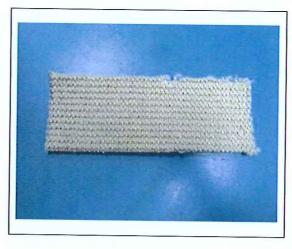
h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack



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End of Report



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No.: HKSL1307148876TX

Date: Aug 09, 2013

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The following sample was submitted and identified by the client as:

One sample of 100% wool "WB-collection" textured loop pile carpet in plain colour

Ref. No.

3575880

Country Of Origin

China

Sample Receiving Date

Jul 31, 2013

Test Performing Period

Aug 01, 2013 - Aug 09, 2013

Test Performed

Selected test(s) as requested by applicant (details

please refer to result page(s).

Test Results

Please refer to the next.page(s).

Signed for and on behalf of SGS Hong Kong Ltd.

Leung Po Wa, Nikita Senior Account Executive

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Test Results:

Ignition Test on Textile Floor Coverings

(BS 4790:1987 Method 1/ BS 5287:1988, Hot metal nut method)

The test results relate only to the behavior of the test specimens after application of a small source of ignition; they shall not be used as a means of assessing how the product will contribute to an established fire.

| Result: | | 2 | 3 | Req. |
|--|-------|-------|-------|-------|
| Specimen | 11 | | | 1104. |
| Radius of affected area on Use-surface (mm) | 20 | 20 | 20 | |
| Radius of affected area on Under-surface (mm) | 15 | 15 | 15 | |
| Greatest radius of the affected area (mm) | | 20 | | ≤ 75 |
| Time for ignition to reach the clamping ring (sec) | N/A | N/A | ·N/A | |
| Flame extinction time (sec) | 34 | 32 | 34 | |
| Duration of afterglow or smouldering (sec) | 0 | 0 | 0 | |
| Burn Code | SB+BB | SB+BB | SB+BB | |

Remarks 1 4 1

1) DNI - Did not ignite; SB - Surface burn; BB - Base burn

1) Method of mounting test specimens: Method 1 - Loose-laid

1) N/A - Not applicable

The submitted sample complies with the requirement as stated in BS 5287:1988 - Assessment and Labeling of textile floor coverings - "A specimen shall be considered as satisfactory if the radius of the affected area is not greater than 75mm."

Labeling recommendation

For domestic use

For Domestic use the minimum information to be given on the manufacturer's label for domestic user shall be:

BS 5287 flammability (effects of a small ignition source)

Loose- laid

PASS

For contract use

For contract use the minimum information describing the observed behaviour under test shall be as below:

| Radius of affected area (mm) | Information given on label When tested according to the loose-laid method of BS 4790 |
|------------------------------|--|
| Up to 35 | this floor covering has a low radius (up to 35 mm) of effects of |
| | ignition. |

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AEROQ

Certification Body for Construction Products

CERTIFICATE OF CONFORMITY no.: AEROQ-018-CH-11

It has been stated that the construction product:

Wool Carpet

Pile hight: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 6.5mm, 7mm, 7.5mm, 8mm, 8.5mm, 9mm, 10mm, 11mm, 12mm
Intended use: construction

placed on the market by:

Carpet CO., Ltd

headquartered in:

produced in the factory:

Carpet CO., Ltd

headquartered in:

is submitted by the manufacturer to the initial type-testing of the product, a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in standard:

EN 14041:2004

were applied and that the product fulfils all the prescribed requirements.

First Issue Date 19.09.2011 Expire Date 30.09.2013

This certificate remains valid as long as the conditions laid down in the technical specification in reference or the manufacturing conditions in the factory or the factory production control itself are not modified significantly.

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