

## Test Report

Report No.: AJFS2309008162FF

Date: SEP.07, 2023

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ROYAL CONCEPT INDUSTRIAL LTD

516223, CHANJING TANGXIA XINXU TOWN, HUIZHOU CITY, GUANGDONG, CHINA

**Sample Name:** FIRE RESISTANT FOAM

**SGS Ref No.:** SZP23-016974

**Style/Item No.:** /

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

\*\*\*\*\*

### Test Requested:

1. State of California, Department of Consumer Affairs, Bureau Household Goods and Services, Technical Bulletin 117-2013(R2019), Requirement, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture, Section 3 Resilient Filling Material Test.
2. State of California, Department of Consumer Affairs, Bureau Household Goods and Services, Technical Bulletin 117-2013(R2019), Requirement, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture, Section 4 Decking Material Test.

**Test Results:** -- See attached sheet --

### Test Period:

Sample Receiving Date : SEP.04, 2023

Test Performing Date : SEP.04, 2023 TO SEP.06, 2023

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Echo

Echo Li

Approved Signatory

Scan to see the report



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Verification:  
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### 1. TB 117-2013(R2019), Section 3, Resilient Filling Material Test

#### I. Test Conducted

The test was conducted in accordance with California Technical Bulletin 117-2013(R2019) Testing the Smolder Resistance of Materials Used in Upholstered Furniture, Section 3: Resilient Filling Material Test.

#### II. Test Specimen

Description	Foam
Color	White
Density	24.7 kg/m <sup>3</sup>
Size of specimen	203 mm × 127 mm × 51mm & 203 mm × 203 mm × 51 mm

#### Conditioning

Prior to testing, the specimens were conditioned for a minimum of 24 hours, at 70 ± 5°F (21°C ± 3°C) and less than 55% relative humidity.

#### III. Test Result

Specimen No.	Duration of smoldering (min:s)	Open flaming (Yes/No)	Vertical char length (mm)	Comment
1	31 min 38 s	No	15	Pass
2	32 min 21 s	No	16	Pass
3	31 min 45 s	No	15	Pass

#### Pass / Fail Criteria:

- A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
  - The mock-up test specimen continues to smolder after the 45 minute test duration.
  - A vertical char length (measured as specified in step 11.9 of ASTM E1353-08a <sup>ε1</sup>) of more than 1.8 inches (45 mm) develops on the cover fabrics.
  - The mock-up test specimen transitions to open flaming.
- The cover fabric passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn their full length and the mock-ups are no longer smoldering.
- If more than one initial specimen fails, the cover fabric fails the test.
- If any one of the three initial specimens fails, repeat the test on additional three specimens.
- 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.

**Sub-Conclusion:** The tested samples **meet** the Requirements of Section 3 for Resilient Filling Material Test of California Technical Bulletin 117-2013(R2019).



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### 2. TB 117-2013(R2019), Section 4, Decking Material Test

#### I. Test Conducted

The test was conducted in accordance with California Technical Bulletin 117-2013(R2019) Testing the Smolder Resistance of Materials Used in Upholstered Furniture, Section 4: Decking Material Test.

#### II. Test Specimen

Description	Foam
Color	White
Size of specimen	533 mm x 343 mm x 25 mm

#### Conditioning

Prior to testing, the specimens were conditioned for a minimum of 24 hours, at 70 ± 5°F (21°C ± 3°C) and less than 55% relative humidity.

#### III. Test Result

Specimen No.	Duration of smoldering (min:s)	Open flaming (Yes/No)	Char length (mm)	Comment
1	25 min 44 s	No	5	Pass
2	26 min 19 s	No	6	Pass
3	25 min 52 s	No	6	Pass

#### Pass / Fail Criteria:

- A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
  - The mock-up test specimen continues to smolder after the 45 minute test duration;
  - A char length (measured as specified in step 19.6 of ASTM E1353-08a <sup>†1</sup>) of more than 1.5 inches (38 mm) develops.
  - The mock-up test specimen transitions to open flaming.
- The decking material passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn their full length and the mock-ups are no longer smoldering.
- If more than one initial specimen fails, the decking material fails the test.
- If any one of the three initial specimens fails, repeat the test on additional three specimens.
- If all three additional specimens pass the test, the decking material passes. If any one of the additional three specimens fails, the decking material fails the test.

**Sub-Conclusion:** The tested samples **meet** the Requirements of Section 4 for Decking Material Test of California Technical Bulletin 117-2013(R2019).



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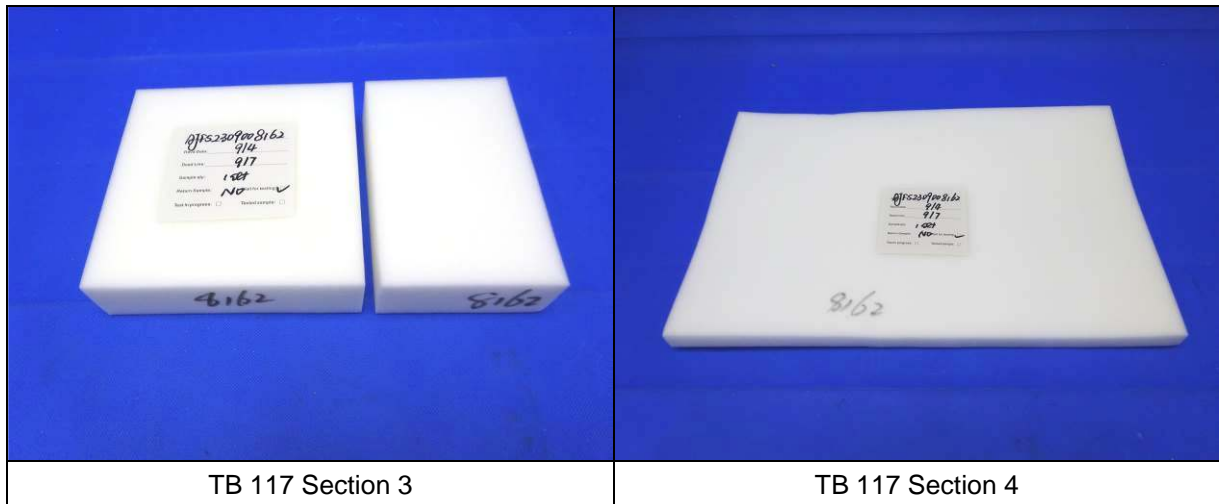
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### Statement:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

The specimen was supplied by the sponsor and SGS-CSTC ANJI Branch was not involved in any selection or sampling procedure.

### Photo Appendix:



SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*



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