

Maxwell Road, Stevenage
Hertfordshire
SG1 2EW, UK

T: +44(0) 1438 777 700
F: +44(0) 1438 777 800
E: info@fira.co.uk
W: www.fira.co.uk

Safehinge Limited

Level 4
Skypark 3
14 Elliot Place
Glasgow
G3 8EP

Our Ref: **TFFLF80665A***

Date: 02 July 2018

Delivery Date: 11 June 2018

Test Dates: 18 – 28 June 2018

For the attention of Shaun Ridley

SAMPLE(S) FOR TEST:



One, Composite – Ref: Safehinge Ensuite Dorset

Note: The above descriptions are as supplied by the client and have not been verified by FIRA who can take no responsibility for the accuracy of the description.

TEST REQUIREMENTS:

BS EN 1021-1: 2006 (smouldering cigarette)
BS EN 1021-2: 2006 (match flame equivalent)
Schedule 1 Part I (based on BS 5852: 1982 Part 2)
BS 7176: 2007+A1:2011 Low Hazard

RESULT:

Pass - P 0
Pass - P 1
Pass - P5
Pass

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TECHNICAL REPORT

DESCRIPTION

Enquiry No. TFFOF80665A*

Item: One, Mattress – Ref: Safehinge Ensuite Dorset

Supplied by: **Safehinge Limited**

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.

BS EN 1021-1: 2006: ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE PART 1 IGNITION SOURCE: SMOULDERING CIGARETTE

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥24 hours at 23±2°C & 50±5% rh.

Test Procedure: The test is carried out in accordance with BS EN 1021-1 & 2:2006 using a specified rig as defined in Clause 6.1 in the above regulations.

The material was subjected to the watersoak procedure as detailed in Annex E of BS 5852: 2006 and allowed to dry at indoor ambient room temperature for a minimum of 48 hours.

Filling Material: As supplied

Test Conditions: The test was conducted within the specified conditions of 10-30°C & 15-80% rh.

RESULTS

Application No.	Ignition Source	Smoke/ Smoulder	Result Ignition/ Non-Ignition
1	0	28min 06sec	PASS N/I
2	0	26min 54sec	PASS N/I

COMMENTS

CLAUSE	SMOULDERING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.1a	Unsafe escalating combustion	NO - PASS N/I
3.1b	Test assembly consumed	NO - PASS N/I
3.1c	Smoulders to extremities/ reaches either side or through full thickness of sample	NO - PASS N/I
3.1d	Smoulders more than 1 hour	NO - PASS N/I
3.1e	Damage >100mm's from source	NO - PASS N/I
CLAUSE	FLAMING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.2	Flaming occurs	NO - PASS N/I

CONCLUSION

This sample passes the requirements of BS EN 1021-1: 2006.

TECHNICAL REPORT

DESCRIPTION

Enquiry No. TFFLF80665A*

Item: One, Mattress – Ref: Safehinge Ensuite Dorset

Supplied by: **Safehinge Limited**

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.

BS EN 1021-2: 2006: ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE PART 2 IGNITION SOURCE: MATCH FLAME EQUIVALENT

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥24 hours at 23±2°C & 50±5% rh.

Test Procedure: Test is carried out in accordance with BS EN 1021-2 & 2:2006 using a specified rig as defined in clause 6.1 in the above regulations.

The material was subjected to the watersoak procedure as detailed in Annex E of BS 5852: 2006 and allowed to dry at indoor ambient room temperature for a minimum of 48 hours.

Filling Material: As supplied

Test Conditions: The test was conducted within the specified conditions of 10-30°C & 15-80% rh.

RESULTS

Application No.	Ignition Source	Time of Application	Flames Following Removal of Source	Result Ignition/Non-Ignition
1	1	0min 15sec	0min 00sec	PASS N/I
2	1	0min 15sec	0min 00sec	PASS N/I
3	1	0min 15sec	0min 00sec	PASS N/I

COMMENTS

CLAUSE	SMOULDERING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.1a	Unsafe escalating combustion	PASS N/I
3.1b	Test assembly consumed	PASS N/I
3.1c	Smoulders to extremities/ reaches either side or through full thickness of sample	PASS N/I
3.1d	Smoulders more than 1 hour	PASS N/I
3.1e	Damage >100mm's from source	PASS N/I
CLAUSE	FLAMING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.2a	Unsafe escalating combustion	PASS N/I
3.2b	Test assembly consumed	PASS N/I
3.2c	Flames to extremities/ reaches either side or through full thickness of sample	PASS N/I
3.2d	Flames continue beyond 120seconds	PASS N/I

CONCLUSION

This sample passes the requirements of BS EN 1021-2: 2006.

This composite Ref: Safehinge Ensuite Dorset passes the requirements of BS 7176:2007+A1:2011 for low hazard applications.



TECHNICAL REPORT

DESCRIPTION

Enquiry No. TFFLF80665A*
Item: Foam – Ref: Safehinge Ensuite Dorset
Supplied by: **Safehinge Limited**

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.

FURNITURE AND FURNISHINGS (FIRE) (SAFETY) REGULATIONS 1988 - AMENDED 1989, 1993 AND 2010 SCHEDULE 1 PART 1 FOR POLYURETHANE FOAM (BASED ON BS 5852: 1982 PART 2)

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥16 hours at 20±5°C & 50±20% rh.

Test Procedure: Test rig - as specified in 6.1.1 of BS 5852-2: 1982, foam sample and covered with a FR polyester material as specified in paragraph 2 of Schedule 1 Part 1 of the above regulations (as amended).

Test Conditions: The test was conducted within the specified conditions of 15-30°C & 20-70% rh.

RESULTS

Ignition Source No.	App No.	Flaming of Assembly	Smoke/ Smoulder	Ignition/ Non-Ignition
5	1	02min 35sec	10min 00sec	PASS N/I
	2	03min 07sec	10min 00sec	PASS N/I

Application	Initial Weight (kg)	Final Weight (kg)	Total Mass Loss (kg)
1	6.252	6.225	0.027
2	6.236	6.212	0.024

COMMENTS

CLAUSE	SMOULDERING CRITERIA	App 1.	App 2.
4.1b	Smoke/ smoulder >than 60min after ignition of crib	NO - PASS N/I	NO - PASS N/I
4.1c	Unsafe escalating smouldering	NO - PASS N/I	NO - PASS N/I
4.1d	Test assembly consumed	NO - PASS N/I	NO - PASS N/I
4.1e*	Smoulders to either side of the lower margins or through full thickness	NO - PASS N/I	NO - PASS N/I
4.1f*	Charring/ other than discolouration extending more than 100mm, other than upwards from position of the crib	NO - PASS N/I	NO - PASS N/I
CLAUSE	FLAMING CRITERIA	App 1.	App 2.
4.2b	Flaming >10 min from ignition of crib	NO - PASS N/I	NO - PASS N/I
4.2d	Unsafe escalating combustion	NO - PASS N/I	NO - PASS N/I
4.2e	Test assembly consumed	NO - PASS N/I	NO - PASS N/I
4.2f*	Flames through full thickness/ flames reach lower margin	NO - PASS N/I	NO - PASS N/I

CONCLUSION

On the basis of the test carried out this polyurethane slab foam Ref: Safehinge Ensuite Dorset, passes the flammability performance requirements of the test specified in Schedule 1 Part I of the Furniture and Furnishings (Fire) (Safety) Regulations 1988, amended 1989, 1993 and 2010.

Tested by: Barry Worrell
Reported by: Annabel Piper
Approved by: Stephen Cotton
Technical Specialist - Flammability

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

