



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

## No. 1410373.3R

(Please quote this number in all correspondence)

CLIENT:  
Abecca Healthcare Ltd.  
82 Sedcole St.  
Pahiatua 4910

SAMPLE RECEIVED FROM:  
Abecca Healthcare Ltd.

Date Received: 14.3.22

Attn.: Joseph Beatson

SAMPLE DESCRIPTION:  
150mm thick mock up mattress with blue/grey Abecca PU cover and PU foam (36/130).

Client Order No.:

Client Reference:

1 of 5

### BS 7177:2008+ A1:2011 SPECIFICATION FOR RESISTANCE TO IGNITION OF MATTRESSES, DIVANS AND BED BASES.

Date Tested: 18/3/2022  
Conditioned at: 50 ± 5% RH. 23 ± 2°C  
Water soaking procedure not carried out.  
Sample tested without bed covers or pillows.

### BSEN 597-1:1995 Furniture- Assessment of the ignitability of mattresses and upholstered bed bases. Smouldering Cigarette Test:

**Result: Non-Ignition**

#### Summary Table - Criteria of Ignition:

Smouldering Criteria	1 <sup>st</sup> Test	2 <sup>nd</sup> Test
Unsafe escalation (3.1 a)	No	No
Test assembly consumed (3.1 b)	No	No
Smouldered through full thickness (3.1 c)	No	No
Smouldered more than 1 hour (3.2 d)	No	No
Charring more than 50 mm from source (3.1 e)	No	No
<b>Flaming criteria</b>		
Occurrence of flames (3.2)	No	No

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L A Greer  
Signatory

  
C Judan  
Signatory

13/04/2022

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

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### BSEN 597-2:1995 Furniture- Assessment of the ignitability of mattresses and upholstered bed bases.

#### Butane Flame Test:

Flame height 35mm

Ignition application time 15 sec

Result:

**Non-Ignition**

#### Summary Table - Criteria of Ignition:

Smouldering Criteria	1 <sup>st</sup> Test	2 <sup>nd</sup> Test
Unsafe escalation (3.1 a)	No	No
Test assembly consumed (3.1 b)	No	No
Smouldered through full thickness (3.1 c)	No	No
Smouldered more than 1 hour (3.1 d)	No	No
Charring more than 50 mm from source (3.1 e)	No	No
<b>Flaming criteria</b>		
Unsafe escalation (3.2 a)	No	No
Test assembly consumed (3.2 b)	No	No
Burning through the thickness or to extremities (3.2 c)	No	No
Flaming for more than 120 seconds (3.2 d)	No	No

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### BS 6807:2006 Assessment of the ignitability of mattresses, upholstered divans and upholstered bed bases with flaming types of primary and secondary sources of ignition.

**Crib 7 Test:** constructed to standard **BS 6807: 2006 Section 9.**

**Result: Ignition Above Sample**

**Non-Ignition**

**Result: Ignition from Below Sample**

**Non-Ignition**

#### Summary Table - Criteria of Ignition:

Smouldering Criteria	1 <sup>st</sup> Test	2 <sup>nd</sup> Test
Unsafe escalation (4.1 a)	No	No
Assembly consumed or smoulders – i.e. either side or full thickness (4.1 b)	No	No
Smouldering time- 60 minutes or more (4.1 d)	No	No
Discoloured char more than 100mm from source position- top only (4.1 e)	No	No
<b>Flaming criteria</b>		
Unsafe escalation (4.2 a)	No	No
Assembly consumed (4.2 b)	No	No
Flame front to outside edges or full thickness (4.2 c)	No	No
Ignition 7 – flaming more than 13 minutes after ignition of the crib (4.2 e)	No	No
Ignition 7 - Debris causes an isolated floor fire <10 minutes (4.2 g)	No	No

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### BS 7177:2008+ A1:2011 SPECIFICATION FOR RESISTANCE TO IGNITION OF MATTRESSES, DIVANS AND BED BASES.

#### Continued:

Additional testing on the filling material according to the Furniture and Furnishings (Fire) (Safety) Regulations 1988. These test methods refer to the earlier British Standards BS 5852-2:1982 and BS 6807: 1986

Annex A: Polyurethane foam in block or cushion form - crib 5.

Conditioned at: 50 ± 5% RH. 23 ± 2°C

Water soaking procedure not carried out.

Samples tested under 100% flame retardant Polyester fabric (mass: 220 g/m<sup>2</sup> ± 5%)

#### Result:

**Non-Ignition**

#### Summary Table: Criteria of Ignition

Chair onfiguration as per testing to BS 5852-2:1982 (Annex A - crib 5 / Annex B, C, D - Source 2)

Smouldering Criteria	1 <sup>st</sup> Test	2 <sup>nd</sup> Test
Smouldering time more than 60 minutes (4.1 b)	No	No
Unsafe escalation (4.1 c)	No	No
Assembly consumed (4.1 d)	No	No
Smouldering to outside edges or full thickness 4.1 (e)	No	No
Discoloured char more than 100 mm from source position- top only (4.1 f)	No	No
<b>Flaming criteria</b>		
Burning time more than 10 minutes (4.2 b)	No	No
Unsafe escalation (4.2 d)	No	No
Assembly consumed (4.2 e)	No	No
Flame front to outside edges or full thickness (4.2 f)	No	No
Burning time more than 10 minutes (4.2 e)	No	No

**This sample meets the requirement for a High Hazard and Very High Hazard Categories.**

**High Hazard = off-shore installations, hotels, hostels, old peoples' homes, certain hospital wards**

**Very High Hazard = Prison Cells and locked psychiatric accommodation.**

"These test results relate only to the ignitability of the combination under the particular conditions of the test. They are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use".

Note: This report supersedes NZWTA report no. 1410373.3 dated 21/03/2022.

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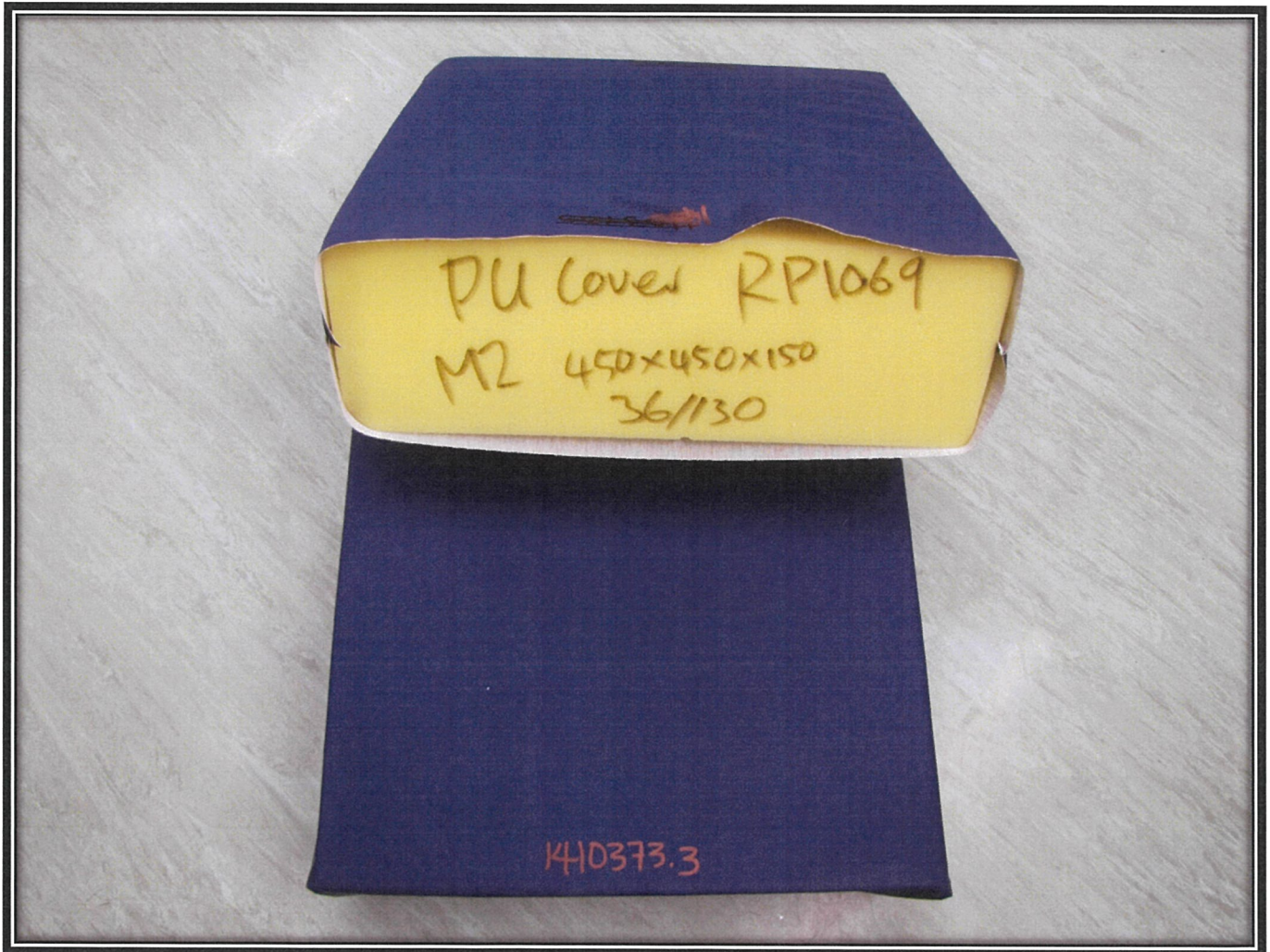
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