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## TECHNICAL REPORT

Pineapple Contracts Westmead Aylesford Maidstone Kent ME20 6XJ United Kingdom	SATRA reference:	FUR9132Y9C1	
		2351	1
	Report ID/Issue number:	35635/1	
	Your reference:	LLNPD07122023	
	Date samples received:	19/12/2023	
	Date(s) work carried out:	21/12/2023 to 09/01/2024	
	Date of report:	09/01/2024	

### Testing Requirements

Testing of 2 seat cushions described by the customer as 'Seat cushion 1 - 25mm lilac foam and purple fabric' and 'Seat cushion 2 - 25mm grey foam and grey fabric' to SATRA TP28:2015

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**Report Signed by:**

Johnny Worthington

  
**Report Signatory**



## RESULTS

### 'SEAT CUSHION 1 – 25MM LILAC FOAM AND PURPLE FABRIC'

Hardness testing based on EN 1957:2012: Durability test (Clause 7.2)

Test Step	Stage	Unit height (mm)	Height change (mm)	Hardness value H (N/mm)	Hardness change (N/mm)	Firmness rating H <sub>s</sub>	Firmness rating change
1	Initial measurement	94.8		13.2		1.6	
2	Pounding (80,000 cycles)						
3	Final measurement	94.7	0.1	9.9	3.3	2.9	1.3

### 'SEAT CUSHION 2 – 25MM GREY FOAM AND GREY FABRIC'

Hardness testing based on EN 1957:2012: Durability test (Clause 7.2)

Test Step	Stage	Unit height (mm)	Height change (mm)	Hardness value H (N/mm)	Hardness change (N/mm)	Firmness rating H <sub>s</sub>	Firmness rating change
1	Initial measurement	98.7		14.2		1.4	
2	Pounding (80,000 cycles)						
3	Final measurement	98.0	0.7	11.2	3.0	2.2	0.8

The hardness value H, and the firmness rating H<sub>s</sub>, were calculated by analysing the load/height curves obtained using an indentometer.

Note that a firmness rating of 1 is firm, and a firmness rating of 10 is soft.



**Visual Inspection**

See photos below. There was no obvious change in appearance after the pounding.



**Photo 1: Showing 'Seat cushion 1 – 25mm lilac foam and purple fabric' at 0 cycles**



**Photo 2: Showing 'Seat cushion 1 – 25mm lilac foam and purple fabric' at 80,000 cycles**

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Furniture - Beds and mattresses  
Test methods for the determination of  
functional characteristics and  
assessment criteria

BS EN 1957:2012

Customer: Pineapple contracts  
Job Number: FUR9132Y9C1  
Sample: Seat cushion 1 -  
25mm lilac foam and purple fabric  
Technician: PG  
Date: 03/01/2024  
10:45:33

**C1** 14.725

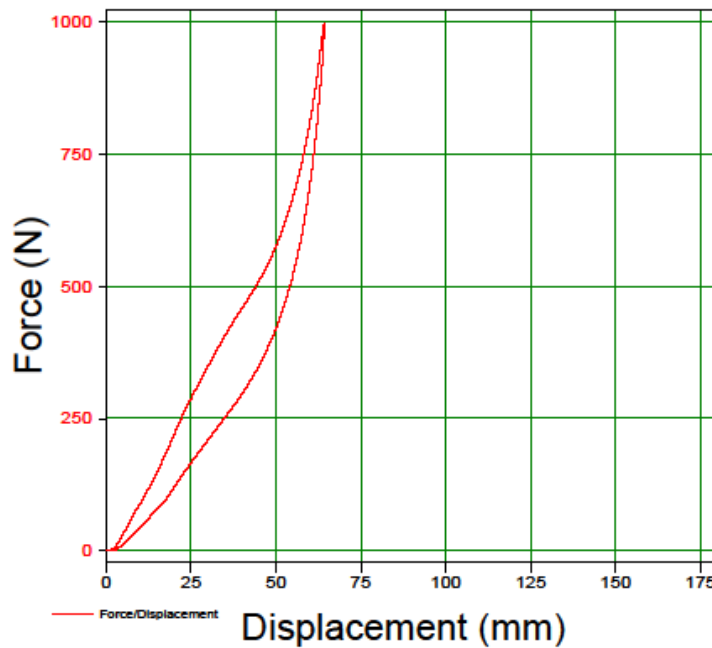
**C2** 12.781

**C3** 12.082

**H** 13.196

**A** 8279.4

**Hs** 1.64



**Graph 1: Showing 'Seat cushion 1 – 25mm lilac foam and purple fabric' at 0 cycles**

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Furniture - Beds and mattresses  
Test methods for the determination of  
functional characteristics and  
assessment criteria

BS EN 1957:2012

Customer: Pineapple  
Job Number: FUR9132Y9C1  
Sample: Seat cushion 1 -  
25mm lilac foam and purple fabric  
Technician: PG  
Date: 09/01/2024  
09:57:07

C1 11.178

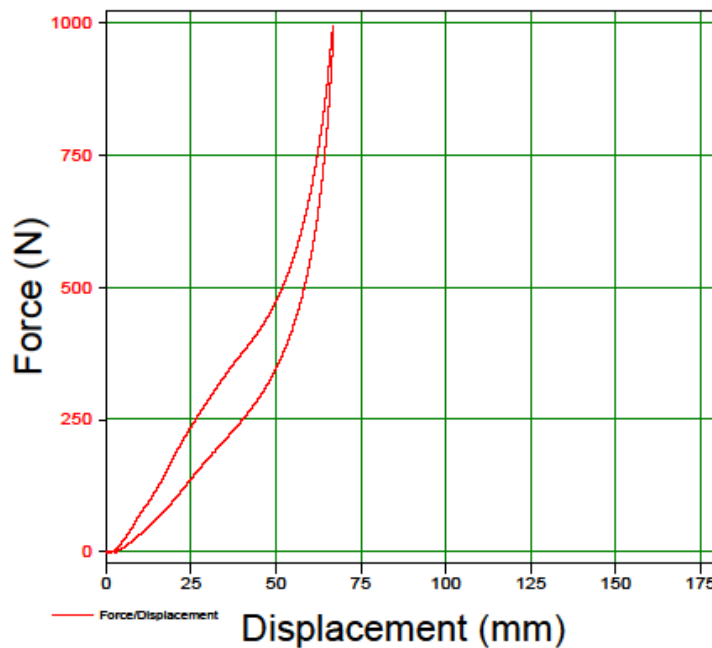
C2 9.688

C3 8.697

H 9.854

A 10366.4

Hs 2.89



**Graph 2: Showing 'Seat cushion 1 – 25mm lilac foam and purple fabric' at 80,000 cycles**



**Photo 3: Showing 'Seat cushion 2 – 25mm grey foam and grey fabric' at 0 cycles**



**Photo 4: Showing 'Seat cushion 2 – 25mm grey foam and grey fabric' at 80,000 cycles**

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Furniture - Beds and mattresses  
Test methods for the determination of  
functional characteristics and  
assessment criteria

BS EN 1957:2012

Customer: Pineapple contracts  
Job Number: FUR9132Y9C1  
Sample: Seat cushion 2 -  
25mm grey foam and grey fabric  
Technician: PG  
Date: 03/01/2024  
10:33:18

**C1** 16.447

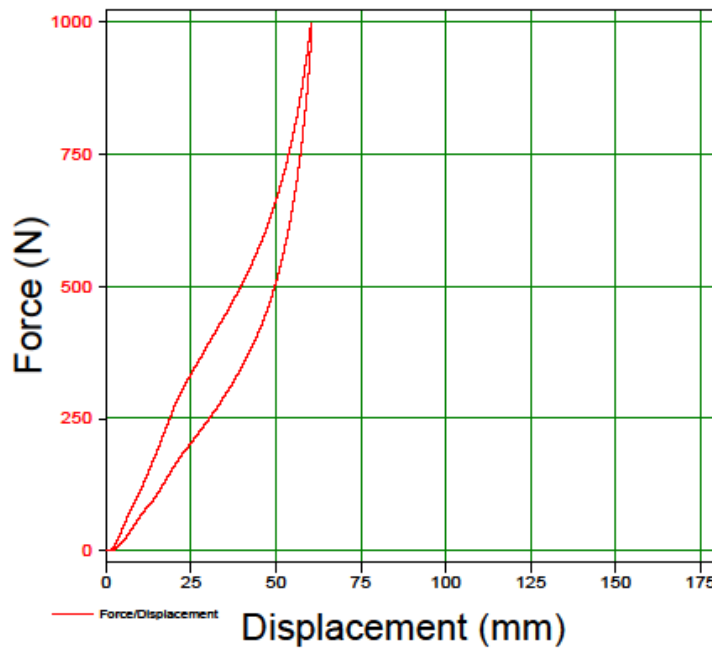
**C2** 15.594

**C3** 10.668

**H** 14.236

**A** 7891.8

**Hs** 1.44



**Graph 3: Showing 'Seat cushion 2 – 25mm grey foam and grey fabric' at 0 cycles**



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Furniture - Beds and mattresses  
Test methods for the determination of  
functional characteristics and  
assessment criteria

BS EN 1957:2012

Customer: Pineapple  
Job Number: FUR9132Y9C1  
Sample: Seat cushion 2 -  
25mm grey foam and grey fabric  
Technician: PG  
Date: 09/01/2024  
09:45:04

**C1** 14.097

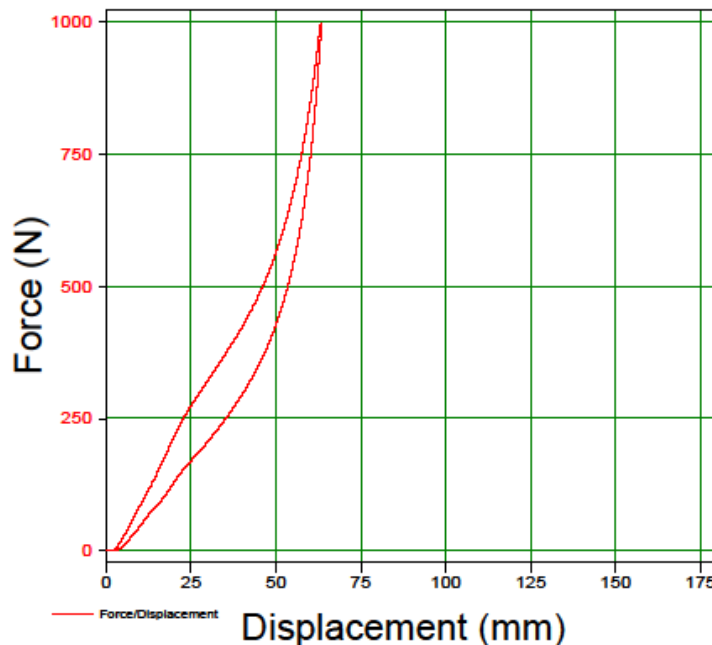
**C2** 9.787

**C3** 9.672

**H** 11.185

**A** 9147.1

**Hs** 2.20



**Graph 4: Showing 'Seat cushion 2 – 25mm grey foam and grey fabric' at 80,000 cycles**

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Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

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### Uncertainty of Measurement and Decision Rules

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Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor  $k=2$ , which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Where a report contains SATRA guidelines values then uncertainty of measurement values have been taken into account when determining the guideline values and as such are not considered when determining pass/ fail criteria.

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