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PINEAPPLE CONTRACTS

Westmead Maidstone Kent

ME20 6XJ

Our Ref: TSSEF87494

Date: 02 October 2019 Delivery Date: 24 June 2019

Test Dates: 24 June 2019 - 13 August 2019

For the attention of Siuling Leung

#### SAMPLE(S) SUBMITTED FOR TEST AND IDENTIFED BY CUSTOMER AS:

One, Rock Chair

TEST(S) AS REQUESTED BY CUSTOMER: RESULT:

BS EN 16139: 2013 Test Level 2 Pass\*

\*Excluding Information for Use.

Technical report references marked \* indicate this report is supplementary to the previous report with the same reference

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#### **DESCRIPTION**

Item: Rock Chair

Supplied by: PINEAPPLE CONTRACTS

Number of Photos: One to Four

All dimensions are approximate.

Quantity	Part Name	Material
1	Seat	10mm Thick Wood
1	Back	10mm Thick Wood
4	Legs	36mm x 45mm Wood
2	Sled Base	25mm Thick Wood
	Weight = 6.5kg	

#### PRECONDITIONING AND MOISTURE CONTENT

FIRA International cannot validate date of manufacture and therefore it is assumed that at least 4 weeks has elapsed between date of manufacture and delivery to FIRA International.

Unless otherwise stated on the first page of this report the sample was stored in indoor ambient conditions for at least the minimum duration as required by this standard prior to test.

Wherever possible timber moisture content is verified prior to test. Where this is not possible the moisture content is assumed to be in the range 8-12%.





# BS EN 16139: 2013 - Furniture - Strength, Durability and Safety - Requirements for Contract Seating

The tests required were carried out in accordance with the standard. Where applicable details of the loads applied and their positions of application are retained at FIRA International and are available on request. Structural testing machines are set to operate at the tolerances stated in the standard. Uncertainty of Measurement calculations have not been applied. FIRA International Uncertainty of Measurement values are available on request.

Item: Rock Chair

Initial Inspection: No apparent faults

Clause	Test	Result
4.1	General requirements (Clause Ref: BS EN 16139: 2013)	
а	accessible corners are rounded or chamfered;	Pass
b	the edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded or chamfered;	Pass
С	the edges of handles are rounded or chamfered in the direction of the force applied;	N/A
d	all other edges are free from burrs and rounded or chamfered;	Pass
е	the ends of hollow components are closed or capped.	N/A
	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.	N/A
	It shall not be possible for any load bearing part of the seating to come loose unintentionally.	Pass
	All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.	N/A
4.2	Shear and squeeze points	
4.2.1	Shear and squeeze points when setting up and folding.	N/A
4.2.2	Shear and squeeze points under influence of powered mechanism.	N/A
4.2.3	Shear and squeeze points during use.	Pass





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Item: Rock Chair

Initial Inspection: No apparent faults

Clause	Test	Result
4.3.3	Stability: non-swivel chairs only (Clause Ref: BS EN 1022: 2005)	
6.2	Forwards overbalancing, all seating.	Pass
6.3	Forwards overturning for seating with footrest.	N/A
6.4	Sideways overbalancing, all seating without arms.	Pass
6.5	Sideways overbalancing, all seating with arms.	N/A
6.6	Rearwards overbalancing, all seating with backs.	Pass
7.3	Tilting chairs.	N/A
7.4	Rocking chairs.	N/A
7.5	Reclining chairs with footrest.	N/A
7.7	Reclining chairs without footrest.	N/A

Clause	Test	Result
4.4	Rolling resistance of the unloaded chair (Clause Ref: EN 16139: 2013)	
а	The rolling resistance is $\geq$ 12 N when tested according to EN 1335-3:2009, 7.4;	N/A
b	All castors are of the same type	N/A





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Item: Rock Chair

Initial Inspection: No apparent faults

Clause	Test	Result
4.3.2	Stability: swivel chairs only (Clause Ref: BS EN 1335: 2009) *Clause Ref: 1022: 2005	
7.1.1	Front edge overbalancing.	N/A
7.1.2	Forwards overbalancing.	N/A
*6.3	Forwards overturning for seating with footrest.	N/A
7.1.4	Sideways overbalancing, all seating without arms.	N/A
7.1.5	Sideways overbalancing, all seating with arms.	N/A
7.1.6	Rearwards overturning - without back rest inclination.	N/A
7.1.7	Rearwards overturning - with back rest inclination.	N/A

Clause	Test	Result
7	Information for use (Clause Ref: BS EN 16139: 2013)	
а	Information regarding the intended use;	Not Supplied
b	If the chair is fitted with adjusting mechanisms: instruction for operating the adjusting mechanisms;	N/A
С	Assembly instructions, where applicable;	N/A
d	Instruction for care and maintenance of the chair;	Not Supplied
е	If the seating is fitted with castors: information on the choice of castors in relation to the floor surface;	N/A
f	If the seating is fitted with adjustment mechanisms comprising an energy accumulator, an additional note is required pointing out that only instructed personnel may replace and maintain adjustment mechanisms containing energy accumulators.	N/A





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Initial Inspection: No apparent faults

Clause	Test	Result
5.4	Strength and durability (Clause Ref: BS EN 1728: 2012)	
6.4	Seat static load test.	Pass
6.4	Back static load test.	Pass
6.4	Additional seat static load test.	N/A
6.4	Additional back static load test.	N/A
6.5	Seat front edge static load test.	Pass
6.6	Vertical static load on back.	Pass
6.8 & 6.9	Foot rest static load test.	N/A
6.10	Arm rest sideways static load test.	N/A
6.11	Arm rest downwards static load test.	N/A
6.13.1 & 6.13.2	Vertical upwards static load on arm rests.	N/A
6.17	Seat durability test (Seat position 1).	Pass*
6.17	Seat durability test (Seat position 2).	N/A
6.17	Back durability test (Back position 1).	Pass*
6.17	Back durability test (Back position 2).	N/A
6.17	Additional seat durability test.	N/A
6.17	Additional back durability test.	N/A

<sup>\*</sup>Additional 300,000 cycles carried out at the end of standard testing due to customer request.





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Item: Rock Chair

Initial Inspection: No apparent faults

Clause	Test	Result
	(Clause Ref: BS EN 1728: 2012)	
6.18	Seat front edge durability test (ALT).	Pass
6.18	Seat front edge durability test (SLP).	N/A
6.20	Arm rest durability test.	N/A
6.21	Foot rest durability test.	N/A
6.15	Leg forwards static load test.	Pass
6.16	Leg sideways static load test.	Pass
6.24	Seat impact test.	Pass
6.25	Back impact test.	Pass
6.26	Arm impact test.	N/A
6.27.1	Drop test (multiple seating).	N/A
6.14	Auxiliary writing surface static load test.	N/A
6.22	Auxiliary writing surface durability test.	N/A





## **CONCLUSION**

The Rock Chair, as previously described, successfully satisfied the applicable test requirements of BS EN 16139: 2013 Test Level 2 - Excluding Information for Use.

Tested by: D Lawrence & K Blair

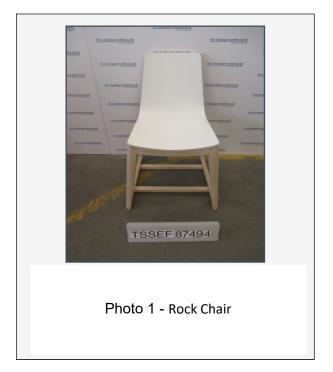
Reported by: G Wright

Approved by: L Haines

Section Head - Structural Testing

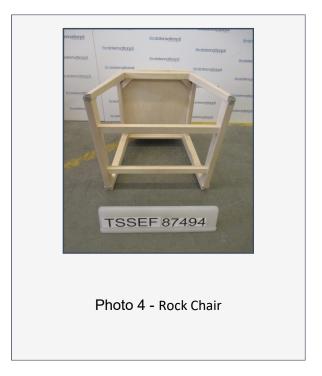












\*\*\*\*\*\*\*\*\*\*\*\*\*End of Report\*\*\*\*\*\*\*



