Requester:	Pineapple Contracts Unlimited Westmead Aylesford, Kent ME20 6XJ United Kingdom
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Dates Tested:	01/19/24 – 02/14/24
Date Submitted:	02/15/24
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Project Number:	15137608 / 4791162594

Scope: To evaluate Recliner Chair, supplied Pineapple Contracts Unlimited, by subjecting it to the following tests:

Requested Tests:

Test Name	Requirement
Backrest Durability Test – Horizontal – Cyclic	ANSI/BIFMA X5.4-2020, Section 7
Arm Strength – Horizontal – Static	ANSI/BIFMA X5.4-2020, Section 9
Arm Strength – Vertical – Static	ANSI/BIFMA X5.4-2020, Section 10
Arm Durability Test – Horizontal – Cyclic	ANSI/BIFMA X5.4-2020, Section 11
Arm Durability Test for Single Seating Units - Angular - Cyclic	ANSI/BIFMA X5.4-2020, Section 13
Seating Durability Tests – Cyclic	ANSI/BIFMA X5.4-2020, Section 14
Stability Tests	ANSI/BIFMA X5.4-2020, Section 21
Structural Durability Test – Side-to-Side - Cyclic	ANSI/BIFMA X5.4-2020, Section 24
Cycle Test for Recliners - Backrest and/or Legrest Mechanism Durability	ANSI/BIFMA X5.4-2020, Section 25

Product Description:

Specimen	Description	Received	Condition	Supplier
6836713	Recliner Chair	01/16/24	New	Pineapple Contracts Unlimited

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Summary:

Test Name	Results
Backrest Durability Test – Horizontal – Cyclic	Met the requirement
Arm Strength – Horizontal – Static	Met the requirement
Arm Strength – Vertical – Static	Met the requirement
Arm Durability Test – Horizontal – Cyclic	Met the requirement
Arm Durability Test for Single Seating Units - Angular - Cyclic	Met the requirement
Seating Durability Tests – Cyclic	Met the requirement
Stability Tests	Met the requirement
Structural Durability Test – Side-to-Side - Cyclic	Met the requirement
Cycle Test for Recliners - Backrest and/or Legrest Mechanism Durability	Did not meet the requirement due to loss of normal function.

Test Results:

Backrest Durability Test – Horizontal – Cyclic:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 7.

Notes:

- Test rate: 19 CPM.
- See photo for setup.

Specimen	Cycles	Observations
6836713	0	Started test.
	120,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability.*

Arm Strength Test – Horizontal – Static:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 9.

Notes:

- See photo for setup.

Specimen	Load	Direction	Time	Observations
6836713	100 lbs.	Outward	60 sec.	No loss of serviceability.
	100 lbs.	Inward	60 sec.	No loss of serviceability.
	150 lbs.	Outward	10 sec.	No sudden and major changes.
	150 lbs.	Inward	10 sec.	No sudden and major changes.

Requirement:

Functional Load: A functional load applied once shall cause no loss of serviceability.

Proof Load: A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.

Arm Strength Test – Vertical – Static:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 10.

Notes:

- See photo for setup.

Specimen	Load (lbs.)	Time (sec.)	Observations
6836713	169	60	No loss of serviceability.
	253	10	No sudden and major changes.

Requirement:

Functional Load: There shall be no loss of serviceability. For a height adjustable arm, failure to hold its height adjustment position to within 6mm (0.25 in.) from its original set position as the result of the loading is considered a loss of serviceability.

Proof Load: There shall be no sudden and major change in the structural integrity of the unit. For a height adjustable arm, a sudden drop in height of greater than 25mm (1 in.) does not meet this requirement. Loss of serviceability is acceptable.

Arm Durability Test for Multiple Seat Units - Horizontal – Cyclic:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 11.

Notes:

- Test rate: 24 CPM.
- Test load: 100 lbf.
- See photo for setup.

Specimen	Cycles	Observations
6836713	0	Started test.
	50,000	No loss of serviceability.

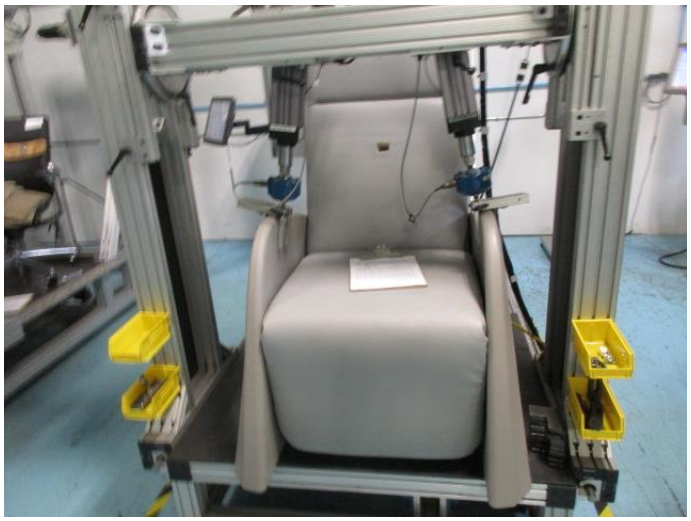
Requirement: *There shall be no loss of serviceability.*

Arm Durability Test for Single Seat Units - Angular – Cyclic:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 13.

Notes:

- Test rate: 23 CPM.
- See photo for setup.



Specimen	Cycles	Observations
6836713	0	Started test.
	60,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability.*

Seating Durability Tests – Cyclic:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 14.

Notes:

- Impact test rate: 22 CPM.
- See photo for setup.

Specimen	Cycles	Observations
6836713	0	Started test.
	100,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability to the unit.*

Stability Tests:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 21.

Notes:

- Unit weight: 172 lbs.
- Seat height: 19"
- Minimum rear stability force calculation: 1.1(47-19) = 30.8 lbs.
- See photos for rear stability and front stability setups.

Specimen	Stability	Force	Observations
6836713	Rear	61.2 lbs.	Unit did not tip Unit passed 30.0 lb. minimum.
	Front	64.4 lbs.	Unit did not tip. Unit passed 32 lb. minimum.

Requirement:

Rear Stability for non-tilting units: The application of the force shall not cause the unit to tip over.

Rear Stability for Tilting units: The unit shall not tip over.

Front Stability for Units Less than 80 lbs.: The chair shall not tip over as the result of the force application(s).

Front Stability for Units Greater Than or Equal to 80 lbs.: The chair shall not tip over as the result of the force application(s).

Structural Durability Test – Side-to-Side - Cyclic:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 24.

Notes:

- Seat load: 240 lbs.
- Test force: 75 lbf.
- Test rate: 15 CPM.
- See photo for setup.

Specimen	Cycles	Observations
6836713	0	Started test.
	25,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability.*

Cycle Test for Recliners:

Testing was performed per ANSI/BIFMA X5.4-2020, Section 25.

Notes:

- Test rate: 5 CPM.
- Entire range of movement was tested.
- See photos for set up.

Specimen	Cycles	Observations
6836713	0	Started test.
	5,402	Footrest no longer rises and lowers during normal range of motion. No obvious breakage can be seen. Slight wear noticed on some of the pivot points.

Requirement: *There shall be no loss of serviceability.*