

Test Report No: 0221500005

Date: 05th ,May , 2022

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ULR- TC568821120000035P

APPLICANT : FEATHERLITE PRODUCTS PVT. LTD.
CONTACT PERSON : AJAY
ADDRESS : SY #18,19/1, CHOKKANAHALLI VILLAGE ,RAJANKUNTE
: POST ARAKERE GRAMA PANCHAYAT, BANGALORE
561263 INDIA

Sample Not Drawn By TUV Rheinland (India) Pvt. Ltd

Sample Description : Bruney Tandem 3 seater
Buyer : Not Provided
Agent Name : Not Provided
Material : Not Provided
Style No : Not Provided
Po No : Not Provided
SKU No : Not Provided
Colour Name : Grey
End Use : Seating
Destination : India
Sample Receiving Date : 21st, April, 2022
Testing Period : 22nd, April, 2022 to 3rd, May, 2022
Delivery Condition : Sample received in good condition

For and on behalf of
TÜV Rheinland (India) Pvt. Ltd

Yogisha Gowda
Assistant Manager

Test result is drawn according to the kind and extent of tests performed. Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted samples only.

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Conclusion:

| Test Property | Pass | Fail | Remarks |
|---------------------------------------------------------------------|------|------|---------|
| Classification and Applicable Tests | - | | Data |
| Arm Strength Test –Horizontal Static: | X | | |
| Arm Strength Test –Vertical Static: | X | | |
| Arm Durability Test for Multiple Seat Units - Horizontal – Cyclic: | X | | |
| Arm Durability Test for Multiple Seating Units - Vertical – Cyclic: | X | | |
| Seating Durability Tests - Cyclic | X | | |
| Drop Test - Dynamic | X | | |
| Leg Strength Test - Front and Side Application | X | | |
| Unit Drop Test - Dynamic | X | | |
| Stability Tests | X | | |
| Backrest Strength Test - Horizontal - Static | X | | |
| Backrest Durability Test - Horizontal - Cyclic | X | | |
| Structure Durability test – side to side cyclic: | X | | |

Remark: 1) Testing has been Conducted as per Applicant Request.
2) Sample not drawn by TUV Rheinland India Pvt. Ltd.

General remark.

1. Testing has been carried out at TUV rheinland (India) Pvt Ltd, 27/B, 2nd Cross, Electronic City , Phase 1, Bangalore- 560 100, furniture section.

Note - Accredited test are reported with NABL Symbol.

Discipline
NABL –Furniture Testing

Group
Mechanical



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Test Conducted-:**STRENGTH, DURABILITY AND SAFETY TESTS FOR LOUNGE AND PUBLIC SEATING:**With reference to **ANSI/BIFMA X5.4-2020****Overall Dimensions:****Height:** 830mm **Width:** 1975mm **Depth:** 692mm**Backrest height:** 520mm **Seat height (H):** 425mm **Arms Height:** 600mm **Back rest width:** 1840mm**Weight:** 38.300kg

| Clause | Requirement- Tests | Measuring Results- Remark | Results |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------|
| 4 | Classification and Applicable Tests | Style A- with arms and with backrest | Data |
| 9 | Arm Strength Test –Horizontal Static: For units with a distance between the arms less than 889 mm (35 in.), a force of 445 N (100 lbf.) shall be applied for one (1) minute in the inward direction. For units with distance between the arms greater than or equal to 889 mm (35 in.), a force of 592 N(133 lbf.) shall be applied for one (1) minute in the inward direction. | No Loss of serviceability | P |
| 10 | Arm Strength Test –Vertical Static: a) - For units with armrest width of greater than 75 mm (3 in.) a force of 890 N (200 lbf.) shall be applied for one (1) minute. - For units with an armrest width of less than or equal to 75 mm (3 in.) a force of 750 N(169 lbf.) shall be applied for one (1) minute. | No Loss of serviceability | P |
| 11 | Arm Durability Test for Multiple Seat Units - Horizontal – Cyclic: Apply a 445 N (100 lbf.) force at an appropriate rate between 10 and 30 cycles per minute for 50,000cycle | No Loss of serviceability | P |
| 12 | Arm Durability Test for Multiple Seating Units - Vertical – Cyclic: Apply a 667 N (150 lbf.) force at an appropriate rate between 10 and 30 cycles per minute for 10000cycle. | No loss of serviceability | P |
| 14 | Seating Durability Tests – Cyclic: Seating shall be tested to 100,000 cycles with a load of 57kg. | No loss of serviceability | P |
| 15.4.1 | Drop Test – Dynamic- Functional Load Test : The test bag shall be raised 152 mm (6 in.) above the uncompressed seat and released one (1) time with a load of 102 kg (225 lb.). | No loss of serviceability | P |
| 15.4.2 | Drop Test – Dynamic- Proof Load Test: Repeat the setup and increase the weight of the test bag to a proof load of 136 kg (300lb.). The test bag shall be raised 152 mm (6 in.) above the uncompressed seating position and released one time. | No sudden and major change in the structural integrity of the unit | P |
| 16.3.2.1 | Leg Strength Test - Front Load Test - Functional Load: A force of 334 N (75 lbf.) shall be applied once to each front leg individually for one (1) minute. | No loss of serviceability to the unit | P |



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| | | | |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------|
| 16.3.2.2 | Proof Load- Leg Strength Test - Front Load Test: A force of 503 N (113 lbf.) or a force equal to the weight of the entire unit, whichever is greater, shall be applied once to each front leg individually for one (1) minute. | No sudden and major change in the structural integrity of the unit at 503N force | P |
| 16.4.2.1 | Leg Strength Test - Side Load Test - Functional Load: A force of 334 N (75 lbf.) shall be applied once to a front and rear leg individually for one (1) minute. | No loss of serviceability to the unit | P |
| 16.4.2.2 | Proof Load- Leg Strength Test - Side Load Test: A force of 503 N (113 lbf.) or a force equal to the weight of the entire unit, whichever is greater, shall be applied once to a front and rear leg individually for one (1) minute. | No sudden and major change in the structural integrity of the unit at 503N force | P |
| 17 | Unit Drop Test – Dynamic: a) Lift one end of the unit to the specified height of 180mm or to the balance point whichever comes first and allow it to drop freely so it lands squarely. b) Repeat a) on the opposite end of the unit. | No loss of serviceability to the Unit after dropping from balance point. | P |
| 21 | Rear Stability: Load the seat with 6 disks (60kg) and apply a horizontal force to the highest disk. The location of the force application is 6 mm (0.25 in.) from the top of the disk. | No Tip over occurred at 151.22N horizontal force. | P |
| 21 | Front Stability: a) A downward force shall be applied initially at 45° ± 5° to the test platform by attaching a strap, not to exceed 76 mm (3 in.) in width, centered over the front portion of the seat. | No tipping occurred at 142N | P |

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| Clause | Requirement- Tests | Measuring Results- Remark | Results |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------|
| 24 | Structure Durability test – side to side cyclic: Load 109kg on the center of seat F=334N push pull action Cycle 20,000 | No loss of serviceability to the unit | P |
| 5.4.1 | Backrest Strength Test - Horizontal – Static: Functional Load: A force of 667 N (150 lbf.) per seating position shall be applied simultaneously for one(1) minute. | No loss of serviceability to the unit | P |
| 5.4.2 | Backrest Strength Test - Horizontal – Static: Proof Load: A force of 1112 N (250 lbf.) per seating position shall be applied simultaneously for one (1) minute. | No sudden and major change in the structural integrity of the unit. | P |
| 7 | Backrest Durability Test - Horizontal – Cyclic: The loading device shall be cycled for 120,000 cycles with a load of 334N. | No loss of serviceability to the unit | P |

NOTE: P = PASS THE REQUIREMENT F= FAIL THE REQUIREMENT N/A= NOT APPLICABLE

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Sample Images:-



-End of Test Report-