

TEST CERTIFICATE N. 231.Y.2302.100.EN.01

References: 2206198-01, 02, 2209205-02 A y B, 2212005-01, 02, 2303068-02-Ci

PRODUCT: MANTA CANTILEVER ARMCHAIR



COMPANY: VONDOM, S.L.U.
Polígono 6, n.16 46293 Beneixida - Valencia (Spain)
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TEST: Compliance with the following standards:
UNE EN 16139:2013vc2015 Furniture. Strength, durability and safety. Requirements for non-domestic seating. **UNE-EN 581-1: 2017 & UNE EN 581-2:2016/AC 2016** Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 1: General safety requirements. Part 2: Mechanical safety requirements and test methods for seating. **ANSI/BIFMA X5.4-2020** Public and Lounge Seating. Test.

RESULT: Satisfactorily complies with the specifications set by the ANSI/BIFMA X5.4-2020, for single type A seats, UNE EN 16139:2013vc2015 for non-domestic seating, level 1 general use, UNE-EN 581-1:2017 and UNE EN 581-2:2016/AC 2016 for outdoor seating for public use, according to the following tests applicable to the product:

	TEST	RESULT
ANSI/BIFMA X5.4-2020	4. Type of chair (single seating) 5. Backrest horizontal static load test. (F _{H1} = 667N, t=1 min. F _{H2} = 1112N, t =10 sec) 7. Backrest durability Test. Horizontal. (F _H = 334 N, n= 120 000 cycles) 9. Arm strength test. Horizontal. (F _{H1} = 445N, t = 1 min. F _{H2} = 667N, t = 10 sec) 10. Arm strength test. Vertical. (F _{V1} = 890 N, t = 1 min. F _{V2} = 1335 N, t = 10 sec) 13. Arm durability test. (F = 400N, n = 60 000 cycles) 14. Seating durability test. (M= 57 kg, h= 30 mm, n= 100 000 cycles) 15. Impact test. (h=152 mm, M ₁ = 102 kg, M ₂ = 136 kg) 16. 3 Leg forward static load test. (F _{H1} = 334N, t=1 min, F _{H2} = 503N, t =10 sec) 16. 4 Leg sideways static load test. (F _{H1} = 334N, t= 1min, F _{H2} = 503N, t = 10 sec) 17. Unit drop test. (h = 180 mm, n= 2 times) 21.3 & 21.5 Front and rear stability test 24. Structural durability test (Q= 109 kg, F _H = 334N, n= 25 000 cycles)	Style A CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT
UNE EN 581-1:2017 UNE EN 16139:2013vc 2015 UNE EN 581-2:2016 /AC 2016	General safety requirements. Safety. General requirements and Shear and squeeze points. Stability (forwards; sideways & rearwards overturning; corner stability) UNE EN 1022:2019 Safety, Strength and Durability Requirements Seat and back static load test (F _V = 2000N, F _H = 445N, n = 10 times) Seat front edge downwards static load test (F _V = 1300 N, n = 10 times) Vertical static load test on back (F _V = 1300 N, F _V = 600 N, n= 10 times) Arm sideways static load test (F _H = 400N, 10 times) Arm downwards static load test (F _V = 750N, 5 times) Seat and back fatigue test (F _V = 1000 N, F _H = 300 N, n = 100 000 cycles) Seat front edge fatigue test (F _V = 800N x2, n= 50 000 cycles) Arm fatigue test (F _V = 400 N, n= 60 000 cycles) Leg forward static load test (F _V = 1 000 N, F _H = 293 N, 10 times) Leg sideways static load test (F _V = 1 000 N, F _H = 298 N, 10 times) Seat impact test (h= 240 mm, 10 times) Backward fall test (n= 5 times) Arm impact test (α = 38°, h= 210 mm, n= 10 times)	APPROVED APPROVED STABLE CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT

Paterna, April 14, 2023



Signed: José Emilio Nuévalos
Furniture and Products Laboratory Manager

This certificate only refers to the samples tested by the AIDIMME laboratory.
The particular results of the tests are described in technical reports n. 231.I.2304.240.ES.01 dated on 13/04/2023 and n. 231.I.2211.564.ES.01 dated on 28/10/2022.

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