TEST CERTIFICATE N. 231.Z.2211.563.EN.01

References: 2206198-04, 02, 2209205-01, 2212137-02–Ci

PRODUCT: **MANTA** WOODEN SWIVEL ARMCHAIR

COMPANY: **VONDOM, S.L.U.**
POLÍGONO 6, 16
46293 BENEIXIDA (VALÈNCIA) SPAIN
www.vondom.com

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)	Style A
	5. Backrest horizontal static load test. (Fh_1= 667N, t=1 min. Fh_2 = 1112N, t =10 sec)	CORRECT
	7. Backrest durability Test. Horizontal. (Fh= 334 N, n= 120 000 cycles)	CORRECT
	9. Arm strength test. Horizontal. (Fh_1 = 445N, t = 1 min. Fh_2 = 667N, t = 10 sec)	CORRECT
	10. Arm strength test. Vertical. (F_{V1} = 890 N, t = 1 min. F_{V2}= 1335 N, t = 1 min)	CORRECT
	13. Arm durability test. (F = 400N, n = 60 000 cycles)	CORRECT
	14. Seating durability test. (M= 57 kg, h= 30 mm, n= 100 000 cycles)	CORRECT
	15. Impact test. (h=152 mm, M_1 = 102 kg, M_2 = 136 kg)	CORRECT
	19. Swivel test (M = 122 kg, n= N = 120 000 cycles)	CORRECT
	21.3 & 21.5 Front and rear stability test	STABLE
UNE EN 581-1:2017 **UNE EN 16139:2013vc 2015** **UNE EN 581-2:2016 /AC 2016**	General safety requirements.	APPROVED
	Safety. General requirements and Shear and squeeze points.	APPROVED
	Stability (forwards; sideways & rearwards overturning; corner stability) UNE EN 1022:2019	STABLE
	Safety, Strength and Durability Requirements	
	Seat and back static load test (F_V = 2000N, F_H = 560N, n = 10 times)	CORRECT
	Seat front edge downwards static load test (F_V = 1300 N, n = 10 times)	CORRECT
	Vertical static load test on back (Fv = 1300 N, F_V= 600 N, n= 10 times)	CORRECT
	Arm sideways static load test (F_H= 400N, 10 times)	CORRECT
	Arm downwards static load test (F_V= 750N, 5 times)	CORRECT
	Seat and back fatigue test (F_V = 1000 N, F_H = 300 N, n = 100 000 cycles)	CORRECT
	Seat front edge fatigue test (Fv = 800N x2, n= 50 000 cycles)	CORRECT
	Arm fatigue test (Fv= 400 N, n= 60 000 cycles)	CORRECT
	Leg forward static load test (Fv = 1 000 N, F_H= 438 N, 10 times)	CORRECT
	Leg sideways static load test (Fv = 1 000 N, F_H= 400 N, 10 times)	CORRECT
	Seat impact test (h= 240 mm, 10 times)	CORRECT
	Backward fall test (n= 5 times)	CORRECT
	Arm impact test (α = 38º, h= 210 mm, n= 10 times)	CORRECT

Paterna, February 7, 2023

AIDIMME

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.2301.055.ES.01 dated on 24/01/2023 and n. 231.I.2211.564.ES.01 dated on 28/10/2022.

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