

## TEST CERTIFICATE n. 231.Z.2005.226.EN.01

References: 2003177-06, 2002202-03, 2005097-04-Ci

**PRODUCT:** PENTA ARMCHAIR SWIVEL BASE  
PENTA ARMCHAIR FIXED BASE

**COMPANY:** VICCARBE HABITAT, S.L.  
PG. Norte, C/Travesía 1 al camí Racó S/N  
46469 BENIPARRELL (VALENCIA) SPAIN  
Phone: 34 9612010 - Fax: 34961211211  
[www.viccarbe.com](http://www.viccarbe.com)



**TEST:** Compliance with the following standards:  
**ANSI/BIFMA X5.4-2012** Lounge and Public Seating. Test. **UNE-EN 16139:2013vc2015** Furniture. Strength, durability and safety. Requirements for non-domestic seating.

**RESULT:** Satisfactorily complies with the specifications set by the ANSI/BIFMA X5.4-2012 (stability tests in accordance with para. 21) and UNE-EN 16139:2013vc2015 for non-domestic use seats, level 1 general use, according to the following tests applicable to the product:

TESTS		RESULT
<b>ANSI/BIFMA X5.4-2012</b>	<b>21.3 &amp; 21.5 Front and rear stability test</b>	STABLE
<b>UNE-EN 16139:2013 vc2015</b>	<p><b>4.1. – 4.2 Safety. General requirements and Shear and squeeze points STABILITY 7.3.– Test procedures, all seating (UNE EN 1022:2019)</b> (7.3.1. Forwards overturning; 7.3.5. Sideways overturning, all other seating; 7.3.6. Rearwards overturning all seating with back rests)</p> <p><b>5. Strength, Durability and Safety Requirements:</b></p> <p><b>Test 1. Seat and back static load test</b> (F<sub>v</sub>=1600 N, F<sub>H</sub>=560 N, 10 times)  <b>Test 2. Seat front edge static load test</b> (F<sub>v</sub>= 1300 N, 10 times)  <b>Test 3. Vertical static load on back</b> (F<sub>v</sub> = 1300 N, F<sub>v</sub>= 600 N, 10 times)  <b>Test 5. Arm sideways static load test</b> (F<sub>H</sub> = 400 N, n = 10 times)  <b>Test 6. Arm downwards static load test</b> (F<sub>v</sub> = 750 N, n = 5 times)  <b>Test 8. Seat and back durability test</b> (F<sub>v</sub> =1 000 N, F<sub>H</sub> =300 N, n= 100 000 cycles)  <b>Test 9. Seat front edge durability test</b> (F<sub>v</sub> = 800N x2, n= 50 000 cycles)  <b>Test 10. Durabilidad sobre los reposabrazos</b> (F<sub>v</sub>= 400 N, n= 30 000 cycles)  <b>Test 14. Seat impact test</b> (M= 25 kg, h= 240 mm., 10 times)  <b>Test 15. Back impact test</b> (M= 5 kg, α = 38°, n= 10 times)  <b>Test 16. Arm impact test</b> (α= 38°, h= 210 mm., 10 times)</p> <p><b>Annex A. Additional tests.</b>  <b>Annex A.2 Backward fall test</b> (5 times)</p>	<p>CORRECT STABLE</p> <p>CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT CORRECT</p> <p>CORRECT</p>

Valencia, June 10, 2020

P.A.



Signed: José Emilio Nuévalos  
Furniture and Products Laboratory  
Head of Section

This certificate only refers to the samples tested by the AIDIMA laboratory.

The particular results of the tests are described in technical report N° 231.I.2005.226.ES.01 dated on 29/05/2020.

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**TEST CERTIFICATE N. 230.Z.1708.475.EN.01**

Reference: 1706004-01, 1706165-03-Ci

**PRODUCT:** PENTA armchair fixed / swivel base

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**COMPANY:** VICCARBE HABITAT, S.L.  
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[www.viccarbe.com](http://www.viccarbe.com)



**TEST:** Compliance with the following standard:  
**ANSI/BIFMA X5.4-2012** Lounge and Public Seating. Test.

**RESULT:** Satisfactorily complies with the specifications set by the ANSI/BIFMA X5.4-2012 for single seating type A, according to the following tests,

TEST	RESULT
4. Type of chair	Single type A
5. Backrest horizontal static load test ( $F_{h1} = 667 \text{ N}$ , $F_{h2} = 1112 \text{ N}$ , $t=1 \text{ min.}$ )	CORRECT
7. Backrest durability Test. Horizontal. ( $F_h 1= 334 \text{ N}$ , $n= 120.000 \text{ cycles}$ )	CORRECT
9. Arm Strength test. Horizontal static load. ( $F_{h1}=445\text{N}$ , $F_{h2}=667\text{N}$ , $t=1 \text{ min}$ )	CORRECT
10. Arm Strength test. Vertical static load. ( $F_{v1}= 750\text{N}$ , $F_{v2}=1125\text{N}$ , $t=1 \text{ min.}$ )	CORRECT
13. Arm durability test. ( $F = 400\text{N}$ , $n = 60 \text{ 000 cycles}$ )	CORRECT
14. Seating durability test ( $M= 57 \text{ kg}$ , $h= 30 \text{ mm.}$ , $n= 100.000 \text{ cycles}$ )	CORRECT
15. Impact test ( $h=152 \text{ mm.}$ , $M_1=102 \text{ kg}$ , $M_2=136 \text{ kg}$ )	CORRECT
19. Swivel Test ( $M = 113\text{kg}$ , $n = 120.000 \text{ cycles}$ )	CORRECT
21.3 & 21.5 Front and rear stability test	CORRECT

Paterna, August 4, 2017

  
José Emilio Nuévalos  
Head of Furniture Laboratory

This certificate only refers to the samples tested by the AIDIMA laboratory.  
The particular results of the tests are described in technical report Nº 230.I.1708.475.ES.01, dated on July 31, 2017.

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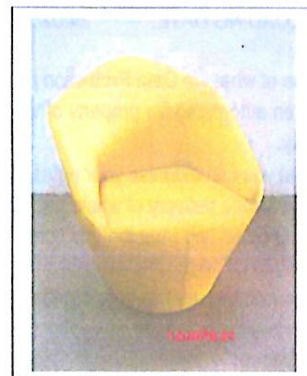
# TEST CERTIFICATE

# AIDIMA

Reference: 1302076-01- C-i

**PRODUCT:** ARMCHAIR Mod: "PENTA"

**COMPANY:** VICCARBE HABITAT, S.L.  
 PG. NORTE, C/ TRAVESÍA 1  
 AL CAMÍ RACÓ S/N  
 46469 BENIPARRELL (VALENCIA) -- SPAIN  
 Phone: 96 120 10 10  
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**TEST:** Compliance with the following standard:  
**UNE EN 15373:07** Furniture. Durability, strength and security – Requirements for Not Domestic Seats.  
**UNE EN 1728:01** Domestic Furniture. Seats. Tests methods for the determination of the strength and durability.

**RESULT:** The model tested satisfactorily fulfills the especifications for the standard used (level 3, public severe use) in the following tests:

TESTS	RESULT
Sect. 6.1 UNE EN 15373:07 Seat and back static load test. (Fv = 2 000N, Fh = 670N, n = 10 times)	CORRECT
Sect. 6.10 UNE EN 15373:07 Seat and back durability test. (Fv = 1 000N, Fh = 300N, n = 200 000 cycles)	CORRECT
Sect. 6.19 UNE EN 15373:07 Seat impact test. (M = 25kg. h = 300mm, 10 times)	CORRECT

Paterna, 7<sup>th</sup> March, 2013

Signed:   
 Head of Furniture Laboratory

This certificate only refers to the samples tested by the AIDIMA laboratory.

The particular results of the tests are described in technical report ref. 1302076-01 dated on 7/03/2013.

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