

<b>(Translation) Report No.: 28805</b>		Date of receipt:	05/10/2011
		Start date:	05/10/2011
		Date of completion:	07/11/2011
		Date of issue:	08/11/2011
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Customer:	<b>AKABA S.A.</b>		
Address:	<b>ATALLU KALEA, 14 - 16 20170 USURBIL (SPAIN)</b>		

Reference:	<b>ADOS</b>
Characteristics:	<b>Wire base stackable chairs, with and without arms</b>
Standard:	<b>ANSI/BIFMA X5.1-2011, Chair type III</b>



**“ADOS” chairs**



<b>“ADOS” CHAIR WITHOUT ARMRESTS</b>			
<b>Tests</b>	<b>Standard/sec.</b>	<b>Test parameters</b>	<b>RESULT</b>
Backrest strength	ANSI BIFMA X5.1-2011 sec.6	Functional load (N): 667 Proof load (N): 1.112 No. cycles/duration (min): 1	<b>SATISFACTORY</b>
Drop test	ANSI BIFMA X5.1-2011 sec.8	Functional load (kg): 102 Proof load (kg): 136 Drop height (mm): 152 No. of impacts: 1	<b>SATISFACTORY</b>
Seating durability: (1) impact test (2) front corner load-ease test	ANSI BIFMA X5.1-2011 sec.11.3 y 11.4	(1) Load on seat (kg): 57 No. cycles: 100.000 (2) Load on each corner (N): 734 No. cycles /each corner: 20.000	<b>SATISFACTORY</b>
Backrest durability	ANSI BIFMA X5.1-2011 sec.15	Mass on seat (kg): 102 Load on backrest (N): 334 No. cycles: 120.000	<b>SATISFACTORY</b>

“ADOS” CHAIR WITH ARMRESTS			
Tests	Standard/sec.	Test parameters	RESULT
Back stability	ANSI BIFMA X5.1-2011 sec.1.2.3	Horizontal force (N): 152	<b>SATISFACTORY</b>
Front stability	ANSI BIFMA X5.1-2011 sec.12.4	Vertical force on seat (N): 600 Outward horizontal force (N): 20	<b>SATISFACTORY</b>
Arm vertical strength test	ANSI BIFMA X5.1-2011 sec.13	Functional load (N): 750 Proof load (N): 1.125 No. cycles: 1	<b>SATISFACTORY</b>
Arm horizontal strength test	ANSI BIFMA X5.1-2011 sec.14	Functional load (N): 445 Proof load (N): 667 No. cycles: 1	<b>SATISFACTORY</b>
Front load test on legs (*)	ANSI BIFMA X5.1-2011 sec.18.3	Functional load (N): 334 Proof load (N): 667 No. cycles: 1	<b>SATISFACTORY</b>
Lateral load test on legs (*)	ANSI BIFMA X5.1-2011 sec.18.4	Functional load (N): 334 Proof load (N): 503 No. cycles: 1	<b>SATISFACTORY</b>
Arm durability test	ANSI BIFMA X5.1-2011 sec.21	Vertical force per arm (N): 400 No. cycles: 60.000	<b>SATISFACTORY</b>

(\*) Deviation from the test procedures (sec.18.3 y 18.4):

By agreement with the customer, the test procedures of those tests marked with an asterisk were adapted to the design characteristics of the chairs. The test procedures of the front and lateral load test on legs determine that each leg shall be tested individually. As these chairs do not have individual legs and are part of a unique structure, a device was placed horizontally to enable the application of a distributed load on the structure.



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