

Date received: 12/09/14

Date of issue: 22/09/14

Report consists of 9 test reports.

Defects before testing: None

Sample name: AIR XL armchair

ISILPLAST PLASTIK SANAYII VE TIC. A.S.  
CATALCA YOLU NO:4 TEPECIK 34537  
BUYUKCEKMECE-ISTANBUL ()  
TR – TURKEY

## SAMPLE N° 182331

Overall dimensions: 570 x 530 x 820 (h) mm

### List performed tests:

1. Outdoor furniture - General safety requirements EN 581-1:2006
2. Seat and back static load test EN 1728:2000
3. Seat and back fatigue test EN 1728:2000
4. Arm downwards static load test EN 1728:2000
5. Arm fatigue test EN 1728:2000
6. Leg forward static load test EN 1728:2000
7. Leg sideways static load test EN 1728:2000
8. Seat impact test EN 1728:2000
9. Stability - EN 1022:2005



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Managing Director  
Dr. Andrea Glavon

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## SAMPLE N° 182331

Date of issue: 22/09/14  
Sample weight: Not determined  
Sample name: AIR XL armchair



Side view



Rear view



Bottom view

## TEST REPORT

**182331 / 1**

Date received: 12/09/14

Date of test: 15/09/14

Date of issue: 22/09/14

Sample name: AIR XL armchair



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## Outdoor furniture - General safety requirements EN 581-1:2006

### 5.1 Edges and corners of parts which are directly contactable:

Requirement	Observed	Remarks
Edges and corners rounded and chamfered	Yes	None

### 5.1 Edges and corners of accessible parts:

Requirement	Observed	Remarks
Absence of sharp edges and burrs	Yes	None

### 5.2 Tubulars, holes and gaps accessible during use:

Requirement	Observed	Remarks
Capped holes and gaps if dimensions are $\geq 7$ and $\leq 12$ mm with depth $\geq 10$ mm tested with probe as specif. at point 4, applying 30 N force	Yes	None
Bottom of tubulars capped or plugged	Yes	None

### 5.3 Shear and squeeze points:

Requirement	Observed	Remarks
Absence of shear and squeeze points, created by powered mechanisms	Mechanism not present	None
Absence of shear and squeeze points, created by loads during normal use	Yes	None

Conformity to clause 5 of standard EN 581-1:2006:

**YES**

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## TEST REPORT

**182331 / 2**

Date received: 12/09/14

Date of test: 16/09/14

Date of issue: 22/09/14



Sample name: AIR XL armchair

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## Seat and back static load test EN 1728:2000

### Seat and back static load test, clause 6.2.1

#### Test results:

Seat load N	Back force N	Number of cycles	Remarks
2.000	560	10 x 10 s	No defects
2.000	560	1 x 30 min	No defects

### Seat front edge static load, clause 6.2.2

Seat load N	Number of cycles	Remarks
1.300	10 x 10 s	No defects
1.300	1 x 30 min	No defects

#### Note:

The test has been carried out according to table 1 of EN 581-2:2009 "Outdoor furniture", contract level.

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## TEST REPORT

**182331 / 3**

Date received: 12/09/14

Date of test: 16/09/14

Date of issue: 22/09/14



Sample name: AIR XL armchair

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## Seat and back fatigue test EN 1728:2000

Seat and back fatigue test, clause 6.7

Test results:

Seat force N	Back force N	Number of cycles	Remarks
1.000	330	50.000	No defects

Note:

The test has been carried out according to table 1 of EN 581-2:2009 "Outdoor furniture", contract level.

Bending moment to the back: 100 Nm

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## TEST REPORT

**182331 / 4**

Date received: 12/09/14

Date of test: 19/09/14

Date of issue: 22/09/14

Sample name: AIR XL armchair



ISILPLAST PLASTIK SANAYII VE TIC. A.S.  
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## Arm downwards static load test EN1728:2000

Arm downwards static load test, clause 6.6

Test results:

Vertical force N	Number of applications	Remarks
700 *	10	No defects

Note:

The test has been carried out according to table 1 of EN 581-2:2009 "Outdoor furniture", contract level.

\* According to note b) in table 1 of EN 581-2:2008 (width of the armrest < 15 mm).

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## TEST REPORT

**182331 / 5**

Date received: 12/09/14

Date of test: 19/09/14

Date of issue: 22/09/14



Sample name: AIR XL armchair

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## Arm fatigue test EN 1728:2000

Arm fatigue test, clause 6.10

Test results:

Load on arm rest N	Number of cycles	Remarks
400	30.000	No defects

Note:

The test has been carried out according to table 1 of EN 581-2:2009 "Outdoor furniture", contract level.

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## TEST REPORT

**182331 / 6**

Date received: 12/09/14

Date of test: 22/09/14

Date of issue: 22/09/14



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## Leg forward static load test EN 1728:2000

Leg forward static load test, clause 6.12

Test results:

Forward horizontal force N	Balancing seat load kg	Number of cycles	Remarks
290	100	10	No defects

Note:

According to EN 1728:2000, horizontal force has been reduced from 400 N to 290 N, to avoid tipping.

The test has been carried out according to table 1 of EN 581-2:2009 "Outdoor furniture", contract level.

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## TEST REPORT

**182331 / 7**

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## Leg sideways static load test EN 1728:2000

Leg sideways static load test, clause 6.13

### Test results:

Sideways horizontal force N	Balancing seat load kg	Number of cycles	Remarks
270	100	10	No defects

### Note:

According to EN 1728:2000, horizontal force has been reduced from 300 N to 270 N, to avoid tipping.

The test has been carried out according to table 1 of EN 581-2:2009 "Outdoor furniture", contract level.

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## TEST REPORT

**182331 / 8**

Date received: 12/09/14

Date of test: 22/09/14

Date of issue: 22/09/14



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## Seat impact test EN 1728:2000

Seat impact test, clause 6.15

### Test results:

Mass of impactor kg	Height of drop mm	Number of drops	Remarks
25	180	10	No defects

### Note:

The test has been carried out according to table 1 of EN 581-2:2009 "Outdoor furniture", contract level.

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## TEST REPORT

**182331 / 9**

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## Stability - EN 1022:2005

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 164 N

### Forwards overturning

Horizontal force : 20 N does not overturn

### Rearwards overturning

Fixed back chair

Horizontal force : 164 N does not overturn

### Tilting chair in the rearmost position

Loading discs on the seat : /

### Sideways overturning for chairs with arms

Horizontal force : 20 N does not overturn

### Sideways overturning for chairs without arms

Horizontal force : /

### Forwards overturning for chairs with footrest

Horizontal force : /

Test passed

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