

Date of receipt: 22/03/21

Date of issue: 15/04/21

Report consists of 8 test reports.

Defects before testing: None

Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

## SAMPLE N° 307690

Overall dimensions: 530 x 530 x 970 (h) mm

### List of test reports:

1. Outdoor furniture - General safety requirements EN 581-1:2017
2. Seat and back static load test EN 1728:2012+AC:2013
3. Seat and back fatigue test EN 1728:2012+AC:2013
4. Leg forward static load test EN 1728:2012+AC:2013
5. Leg sideways static load test EN 1728:2012+AC:2013
6. Seat impact test EN 1728:2012+AC:2013
7. Stability - EN 1022:2005
8. Stability EN 1022:2018, clause 7.3



*This document is part of a PDF file digitally signed by Franco Bulian on 16/04/21.*

*The managing director  
Dr. Franco Bulian*  
*loc. u.e.*

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

## SAMPLE N° 307690

Date of issue: 15/04/21  
Sample weight: Not determined  
Sample name: HELENA chair



Side view



Rear view



Bottom view

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

**TEST REPORT**

**307690 / 1**

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 30/03/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Outdoor furniture - General safety requirements EN 581-1:2017**

5.1 General:

Requirement	Observed	Remarks
Edges of seat, back rest and arm rests rounded and chamfered	Yes	None
All other parts: free from burrs, sharp edges and sharp points.	Yes	None
Movable and adjustable parts designed so that injuries and inadvertent operation are avoided	Not present	None
Any load bearing part of furniture not come loose unintentionally	Yes	None
Lubricated parts are protected	Not present	None

5.2 Tubular components:

Requirement	Observed	Remarks
Absence of tubular components with diameter > 7 mm and < 12 mm with a depth > 10 mm.	Yes	None
Tubulars in contact with the floor are closed. Holes in them are allowed as long as they are < 7 mm or > 12 mm	Yes	None

5.3 Shear and squeeze points:

Requirement	Observed	Remarks
Shear and squeeze points that are created only during adjusting and folding away are acceptable if the user has the control of his/her movements.	Not present	None
Absence of shear and squeeze points, created by parts operated by powered mechanism.	Not present	None
Absence of shear and squeeze points, created by loads applied during normal use.	Yes	None

Conformity to requirements of clause 5 of standard EN 581-1:2017: **YES**

This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.

The managing director  
Dr. Franco Bulian

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

**TEST REPORT**

**307690 / 2**

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 31/03/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Seat and back static load test EN 1728:2012+AC:2013**

**Test performed according to EN 581-2:2015**

Seat and back static load test, clause 6.4, EN 1728:2012+AC:2013

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 6.5, EN 1728:2012+AC:2013

Seat load N	Number of cycles	Remarks
1.300	10	No defects

Note:

The test results comply with the requirements in clause 7.2.2 of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.*

*The managing director  
Dr. Franco Bulian*

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

**TEST REPORT**

**307690 / 3**

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 09/04/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Seat and back fatigue test EN 1728:2012+AC:2013**

**Test performed according to EN 581-2:2015**

Seat and back fatigue test, clause 6.17, EN 1728:2012+AC:2013

Test results:

Seat force N	Back force N	Number of cycles	Remarks
1.000	333	50.000	No defects

Note:

The test results comply with the requirements in clause 7.2.2 of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.*

*The managing director  
Dr. Franco Bulian*

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

**TEST REPORT**

**307690 / 4**

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 14/04/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Leg forward static load test EN 1728:2012+AC:2013**

**Test performed according to EN 581-2:2015**

Leg forward static load test clause 6.15, EN 1728:2012+AC:2013

**Test results:**

Forward horizontal force N	Balancing seat force N	Number of cycles	Remarks
400	1.000	10	No defects

**Note:**

The test results comply with the requirements in clause 7.2.2 of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.*

*The managing director  
Dr. Franco Bulian*

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

**TEST REPORT**

**307690 / 5**

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 14/04/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Leg sideways static load test EN 1728:2012+AC:2013**

**Test performed according to EN 581-2:2015**

Leg sideways static load test clause 6.16, EN 1728:2012+AC:2013

**Test results:**

Sideways horizontal force N	Balancing seat force N	Number of cycles	Remarks
300	1.000	10	No defects

**Note:**

The test results comply with the requirements in clause 7.2.2 of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.*

*The managing director  
Dr. Franco Bulian*

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

**TEST REPORT**

**307690 / 6**

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 15/04/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Seat impact test EN 1728:2012+AC:2013**

**Test performed according to EN 581-2:2015**

Seat impact test clause 6.24, EN 1728:2012+AC:2013

Test results:

Mass of impactor kg	Height of drop mm	Impact point	Number of drops	Remarks
25	240	point A	10	No defects
25	240	100 mm from the front seat edge	10	No defects

Note:

The test results comply with the requirements in clause 7.2.2 of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.*

*The managing director  
Dr. Franco Bulian*

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

**TEST REPORT**

**307690 / 7**

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 15/04/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Stability - EN 1022:2005**

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 163 N

**Forwards overturning**

Horizontal force : 20 N does not overturn

**Rearwards overturning**

Fixed back chair

Horizontal force : 163 N does not overturn

**Tilting chair in the rearmost position**

Loading discs on the seat : /

**Sideways overturning for chairs with arms**

Horizontal force : /

**Sideways overturning for chairs without arms**

Horizontal force : 20 N does not overturn

**Forwards overturning for chairs with footrest**

Horizontal force : /

The test result complies with the requirements of EN 1022:2005

*This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.*

The managing director  
Dr. Franco Bulian  
*(Handwritten signature)*

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.

TEST REPORT

307690 / 8

Revision: 0  
Date of receipt: 22/03/21  
Date of test: 15/04/21  
Date of issue: 15/04/21



Sample name: HELENA chair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Stability EN 1022:2018, clause 7.3**

Type of chair: fixed geometry

Positioning of chair components: as specified in Table 1 of EN 1022:2018

Loads and masses according to table B1 of EN 1022:2018, annex B

**Forwards overturning**

Forwards overturning, clause 7.3.1 : does not overturn

Forwards overturning for seating with foot rest, clause 7.3.2 : /

Corner stability, clause 7.3.3 : does not overturn

**Sideways overturning**

Sideways overturning, all seating without arm rests, clause 7.3.4 : does not overturn

Seating with arm rests, clause 7.3.5.2 : /

Seating with raised side edges, clause 7.3.5.3 : /

**Rearwards overturning**

Rearwards overturning all seating with back rests, clause 7.3.6

Minimum force required: 163 N : does not overturn

Tilting seating, clause 7.4.2 : /

Reclining seating with leg rest, clause 7.4.3 : /

Reclining seating without leg rest, clause 7.4.4 : /

Rearwards stability test for rocking chairs, clause 7.4.5 : /

The test results comply with the requirements in clause 7.2 of EN 1022:2018.

This test report is part of a PDF file digitally signed by Franco Bulian on 16/04/21.

The managing director  
Dr. Franco Bulian

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.