

Date of receipt: 28/10/21  
Date of issue: 25/11/21  
Report consists of 7 test reports.  
Defects before testing: None  
Sample name: Shell - P

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

## SAMPLE N° 319070

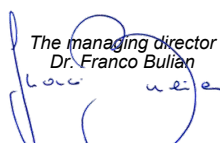
Overall dimensions: 460 x 570 x 800 (h) mm

### List of test reports:

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



*This document is part of a PDF file digitally signed by Franco Bulian.*

*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.

## SAMPLE N° 319070

Date of issue: 25/11/21  
Sample weight: Not determined  
Sample name: Shell - P



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

319070 / 1

Revision: 0  
Date of receipt: 28/10/21  
Date of test: 03/11/21  
Date of issue: 25/11/21  
Sample name: Shell - P



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:	<b>YES</b>
---	------------

This test report is part of a PDF file digitally signed by Franco Bulian.

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**

**319070 / 2**

Revision: 0  
Date of receipt: 28/10/21  
Date of test: 03/11/21  
Date of issue: 25/11/21  
Sample name: Shell - P



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: 162 N

**Forwards overturning**

Horizontal force : 20 N overturns

**Rearwards overturning**

Fixed back chair

Horizontal force : 162 N overturns

**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 does not comply with the requirements of EN 1022:2005

*This test report is part of a PDF file digitally signed by Franco Bulian.*

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**

**319070 / 3**

Revision: 0  
Date of receipt: 28/10/21  
Date of test: 09/11/21  
Date of issue: 25/11/21  
Sample name: Shell - P



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 a), b), c) and d) of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian.*

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**

**319070 / 4**

Revision: 0  
Date of receipt: 28/10/21  
Date of test: 19/11/21  
Date of issue: 25/11/21  
Sample name: Shell - P



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
1.100	300	50.000	No defects

Note:

In order to avoid tipping, the applied back force according to clause 6.2.1 of EN 1728:2012+AC:2013, has been reduced from 333 N to 300 N and the seat force has been increased from 1000 N to 1100 N. The minimum back force required is 300 N.

The test results comply with the requirements in clause 7.2.2 a), b), c) and d) of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian.*

*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**

**319070 / 5**

Revision: 0  
Date of receipt: 28/10/21  
Date of test: 25/11/21  
Date of issue: 25/11/21  
Sample name: Shell - P



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 a), b), c) and d) of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian.*

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**

**319070 / 6**

Revision: 0  
Date of receipt: 28/10/21  
Date of test: 25/11/21  
Date of issue: 25/11/21  
Sample name: Shell - P



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 a), b), c) and d) of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian.*

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**

**319070 / 7**

Revision: 0  
Date of receipt: 28/10/21  
Date of test: 25/11/21  
Date of issue: 25/11/21  
Sample name: Shell - P



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	seat loading point (A)	10	No defects
25	240	on the longitudinal axis, 100 mm from the front seat edge	10	No defects

Note:

The test results comply with the requirements in clause 7.2.2 a), b), c) and d) of EN 581-2:2015, contract level.

*This test report is part of a PDF file digitally signed by Franco Bulian.*

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.