

Report ID: 348216

Date of sample receipt: 09/05/23

Date of issue: 01/06/23

PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG)

ITALIA

Sample name: BABILA TWIST

## **SAMPLE N° 348216**

Overall dimensions: 620 x 600 x 750 (h) mm

#### List of test reports:

- 1. Safety requirements EN 16139:2013+AC:2013
- 2. Information for use EN 16139:2013+AC:2013
- 3. Seat and back static load test EN 1728:2012+AC:2013
- 4. Vertical load on back rest EN 1728:2012+AC:2013
- 5. Arm sideways static load test EN 1728:2012+AC:2013
- 6. Arm downwards static load test EN1728:2012+AC:2013
- 7. Seat and back fatigue test EN 1728:2012+AC:2013
- 8. Seat front edge durability test EN 1728:2012+AC:2013
- 9. Arm fatigue test EN 1728:2012+AC:2013
- 10. Leg forward static load test EN 1728:2012+AC:2013
- 11. Leg sideways static load test EN 1728:2012+AC:2013
- 12. Seat impact test EN 1728:2012+AC:2013
- 13. Back impact test EN 1728:2012+AC:2013
- 14. Arm rest impact test EN 1728:2012+AC:2013
- 15. Stability EN 1022:2005
- 16. Stability EN 1022:2018, clause 7.3



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The managing director
Dr. Franco Bulian



## **SAMPLE N° 348216**

Date of issue: 01/06/23

Sample weight: Not determined Sample name: BABILA TWIST



Side view



Bottom view



Rear view



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LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# TEST REPORT 348216 / 1

Revision: 0

Date of sample receipt: 09/05/23
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PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Safety requirements EN 16139:2013+AC:2013

## Safety requirements clause 4

Remarks
Yes
Handles not present
Yes
Yes
Movable and adjustable parts not present
Yes
Lubricated parts not present
Mechanism not present
No
YES

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# TEST REPORT 348216 / 2

Revision: 0

Date of sample receipt: 09/05/23
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Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Information for use EN 16139:2013+AC:2013

### Information for use clause 7

Statement checked	Remarks
Information for use in the language of the country in which the chair will be delivered to the end user	Italian and English languages
Information regarding the intended use (Annex B of EN 16139:2013+AC:2013)	Present
Instruction for operating the adjusting mechanisms, where applicable	Not applicable
Assembly instructions, where applicable	Present
Instruction for the care and the maintenance of the chair	Present
Information on the choice of castors in relation to the floor surface if the chair is fitted	Castors not present
Advice that only trained personnel may replace or repair seat height adjustment components with energy accumulators if the chair is fitted	Seat height adjustment not present

Conformity to clause 7 of standard EN 16139:2013+AC:2013:	
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# TEST REPORT 348216 / 3

Revision: 0

Date of sample receipt: 09/05/23
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Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

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

### Test performed according to EN 16139:2013+AC:2013

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

#### Test results:

Seat load	Back force	Number	Remarks
N	N	of cycles	
2.000	700	10	No defects

Seat front edge static load, clause 6.5, EN 1728:2012+AC:2013

Seat load N	Number of cycles	Remarks
1.600	10	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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# TEST REPORT 348216 / 4

Revision: 0

Date of sample receipt: 09/05/23
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Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Vertical load on back rest EN 1728:2012+AC:2013

### Test performed according to EN 16139:2013+AC:2013

Vertical static load on back rest clause 6.6, EN 1728:2012+AC:2013

#### Test results:

Seat load N	Downwards force N	Number of applications	Remarks
1.800	900	10	No defects

### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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Revision: 0

Date of sample receipt: 09/05/23
Date of test: 10/05/23
Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Arm sideways static load test EN 1728:2012+AC:2013

#### Test performed according to EN 16139:2013+AC:2013

Arm sideways static load test clause 6.10, EN 1728:2012+AC:2013

Test results:

Horizontal force N	Number of applications	Remarks
900	10	No defects

### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Arm downwards static load test EN1728:2012+AC:2013

### Test performed according to EN EN 16139:2013+AC:2013

Arm downwards static load test clause 6.11, EN 1728:2012+AC:2013

#### Test results:

Vertical force N	Number of applications	Remarks
900	5	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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# TEST REPORT 348216 / 7

Revision: 0

Date of sample receipt: 09/05/23
Date of test: 10/05/23
Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

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

Test performed according to EN 16139:2013+AC:2013

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	300	200.000	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# TEST REPORT 348216 / 8

Revision: 0

Date of sample receipt: 09/05/23
Date of test: 22/05/23
Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Seat front edge durability test EN 1728:2012+AC:2013

### Test performed according to EN 16139:2013+AC:2013

Seat front edge durability test clause 6.18, EN 1728:2012+AC:2013

### Test results:

Points of application	Seat force N	Number of cycles	Remarks
100 mm back from the front and sides edges	800	100.000	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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# TEST REPORT 348216 / 9

Revision: 0

Date of sample receipt: 09/05/23
Date of test: 29/05/23
Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Arm fatigue test EN 1728:2012+AC:2013

Test performed according to EN 16139:2013+AC:2013

Arm fatigue test clause 6.20, EN 1728:2012+AC:2013

Test results:

Force on arm rest N	Number of cycles	Remarks
400	60.000	No defects

Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# TEST REPORT 348216 / 10

Revision: 0

Date of sample receipt: 09/05/23
Date of test: 31/05/23
Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

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

### Test performed according to EN 16139:2013+AC:2013

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
620	1.800	10	No defects

### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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# TEST REPORT 348216 / 11

Revision: 0

Date of sample receipt: 09/05/23
Date of test: 31/05/23
Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

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

Test performed according to EN 16139:2013+AC:2013

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
460	1.800	10	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

According to EN 1728:2012+AC:2013, horizontal force has been reduced from 760 N to 460 N, to avoid tipping.

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Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

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

### Test performed according to EN 16139:2013+AC:2013

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	300	seat loading point (A)	10	No defects
25	300	on the longitudinal axis, 100 mm from the front seat edge	10	No defects

### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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# TEST REPORT 348216 / 13

Revision: 0

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Date of test: 01/06/23
Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## Back impact test EN 1728:2012+AC:2013

### Test performed according to EN 16139:2013+AC:2013

Back impact test clause 6.25, EN 1728:2012+AC:2013

#### Test results:

Angle	Mass of impactor kg	Number of cycles	Remarks
48	6,5	10	No defects

Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## **Arm rest impact test EN 1728:2012+AC:2013**

### Test performed according to EN 16139:2013+AC:2013

Arm rest impact test clause 6.26, EN 1728:2012+AC:2013

#### Test results:

Angle	Mass of impactor kg	Number of cycles	Remarks
48	6,5	10	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

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Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## **Stability - EN 1022:2005**

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 169 N

Forwards overturning

Horizontal force : 20 N does not overturn

Rearwards overturning

Fixed back chair

Horizontal force : 169 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 : //

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

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LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# TEST REPORT 348216 / 16

Revision: 0

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Date of issue: 01/06/23

Sample name: BABILA TWIST



PEDRALI S.P.A. STRADA PROVINCIALE 122 24050 MORNICO AL SERIO (BG) ITALIA

## **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 : //

### Sideways overturning

Sideways overturning, all seating without arm rests, clause 7.3.4 : //

Seating with arm rests, clause 7.3.5.2 : does not overturn

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: 169 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.

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