

Date received: 23/07/19

Date of issue: 26/09/19

Report consists of 11 test reports.

Defects before testing: None

Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
ITALIA

## SAMPLE N° 275546

Overall dimensions: 580 x 540 x 810 (h) mm

### List of test reports:

1. Safety requirements EN 16139:2013+AC:2013
2. Seat and back static load test EN 1728:2012+AC:2013
3. Vertical load on back rest EN 1728:2012+AC:2013
4. Seat and back fatigue test EN 1728:2012+AC:2013
5. Seat front edge durability test EN 1728:2012+AC:2013
6. Arm fatigue test EN 1728:2012+AC:2013
7. Leg forward static load test EN 1728:2012+AC:2013
8. Leg sideways static load test EN 1728:2012+AC:2013
9. Seat impact test EN 1728:2012+AC:2013
10. Back impact test EN 1728:2012+AC:2013
11. Stability - EN 1022:2005



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Managing Director  
Dr. Andrea Giavon

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## SAMPLE N° 275546

Date of issue: 26/09/19  
Sample weight: Not determined  
Sample name: DUA GAMBE LEGNO



Side view



Rear view



Bottom view

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# TEST REPORT

**275546 / 1**

Revision: 0  
Date received: 23/07/19  
Date of test: 29/07/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
ITALIA

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

### Safety requirements clause 4

Statement checked	Remarks
Corner and edges in contact with the users: • Absence of sharp edges and corners	Yes
Edges on the handles: • Absence of sharp edges and corners in the direction of the force	Handles not present
Other edges: • Absence of sharp edges and corners	Yes
Accessible hollow components: • The ends of hollow components are closed or capped	Yes
Movable and adjustable parts: • It shall not be possible for any movable and adjustable part of the chair to come operate unintentionally.	Movable and adjustable parts not present
Connections between parts of the structure: • It shall not be possible for any load bearing part of the seating to come loose unintentionally	No
Parts which are lubricated: • All the parts which are lubricated shall be designed to protect users	Lubricated parts not present
Shear and squeeze points between movable parts $\geq 8 \text{ mm} \leq 25 \text{ mm}$ : • Shear and squeeze points under influence of powered mechanism • Shear and squeeze points during normal use and during normal movements and actions	Mechanism not present  No
Conformity to clauses 4.1 and 4.2 of standard EN 16139:2013+AC:2013:	<b>YES</b>

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**TEST REPORT**  
**275546 / 2**

Revision: 0  
Date received: 23/07/19  
Date of test: 07/08/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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 N	Back force N	Number of cycles	Remarks
2.000	570	10	No defects

**Note:**

According to EN 1728:2012+AC:2013, back force has been reduced from 700 N to 570 N to avoid tipping.

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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*Managing Director*  
*Dr. Andrea Giavon*

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# TEST REPORT

## 275546 / 3

Revision: 0  
Date received: 23/07/19  
Date of test: 07/08/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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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*Dr. Andrea Glavon*

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# TEST REPORT

## 275546 / 4

Revision: 0  
Date received: 23/07/19  
Date of test: 08/08/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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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**TEST REPORT**  
**275546 / 5**

Revision: 0  
Date received: 23/07/19  
Date of test: 03/09/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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

## 275546 / 6

Revision: 0  
Date received: 23/07/19  
Date of test: 12/09/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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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Managing Director  
Dr. Andrea Giamon

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**TEST REPORT**

**275546 / 7**

Revision: 0  
Date received: 23/07/19  
Date of test: 19/09/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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

**275546 / 8**

Revision: 0  
Date received: 23/07/19  
Date of test: 19/09/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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
560	1.800	10	No defects

#### Note:

According to EN 1728:2012+AC:2013, horizontal force has been reduced from 760 N to 560 N, to avoid tipping.

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

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# TEST REPORT

## 275546 / 9

Revision: 0  
Date received: 23/07/19  
Date of test: 20/09/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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	point A	10	No defects
25	300	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**  
**275546 / 10**

Revision: 0  
Date received: 23/07/19  
Date of test: 20/09/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
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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**TEST REPORT**  
**275546 / 11**

Revision: 0  
Date received: 23/07/19  
Date of test: 20/09/19  
Date of issue: 26/09/19



Sample name: DUA GAMBE LEGNO

KRISTALIA S.R.L.  
VIA A. DURANTE 28  
33080 PRATA DI PORDENONE (PN)  
ITALIA

**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 : 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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