

Date of receipt: 02/03/21  
Date of issue: 14/05/21  
Report consists of 9 test reports.  
Defects before testing: None  
Sample name: K274 / B1

## SAMPLE N° 306729

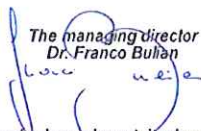
Overall dimensions: 680 x 380 x 1200 (h) mm

### List of test reports:

1. Office work chair - Dimensions EN 1335-1:2020
2. General design requirements EN 1335-2:2018, clauses 4.1 - 4.2
3. Information for use EN 1335-2:2018, clause 6
4. Work chairs: seat and back static load test EN 1728:2012+AC:2013
5. Work chairs: seat and back durability EN 1728:2012+AC:2013
6. Work chairs: arm rests durability EN 1728:2012+AC:2013
7. Work chairs: arm rest downward static load test-central EN 1728:2012+AC:2013
8. Stability EN 1022:2018, clause 7.3
9. Work chairs: rolling resistance of unloaded chair EN 1728:2012+AC:2013



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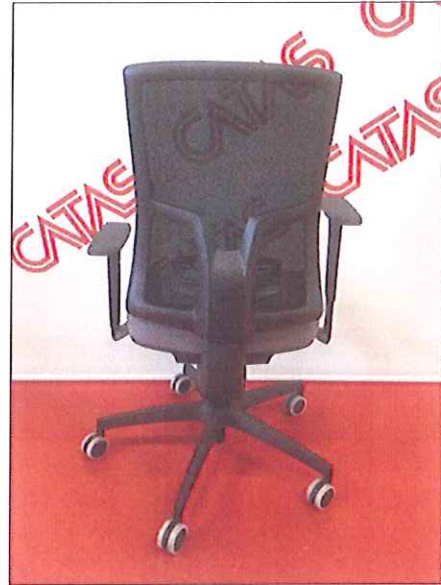
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## SAMPLE N° 306729

Date of issue: 14/05/21  
Sample weight: Not determined  
Sample name: MESH K274 / B1



Side view



Rear view



Bottom view

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**TEST REPORT**  
**306729 / 1**

Revision: 0  
Date of receipt: 02/03/21  
Date of test: 25/03/21  
Date of issue: 14/05/21



Sample name: MESH K274 / B1

**Office work chair - Dimensions EN 1335-1:2020**

Method: ISO 24496:2017

**1. General features**

**1.1 Seat**

depth: x fixed  
- adjustable with horizontal movement  
inclination: - fixed  
x adjustable

**1.2 Backrest**

height: - fixed  
x adjustable  
- adjustable lumbar support (height)  
- adjustable lumbar support (protrusion)  
inclination: - fixed  
x adjustable

**1.3 Seat and back synchronized** yes

**1.4 Armrests**

height: - fixed  
x adjustable  
depth: - fixed  
x adjustable  
clear distance: x fixed  
- adjustable  
rotation: no

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TEST REPORT **306729 / 1 rev. 0**  
Date of issue: 14/05/21  
Sample name: MESH K274 / B1

### Test Results

All linear dimensions are in mm

#### Type of chair: B

symbol	parameter	requirement	measured	conf.
<b>SEAT</b>				
a	seat height and sitting height	420 to 510	417* to 526	yes
	adjustment range	100 min	109	yes
b	seat depth adjustable	425 to 445	/	/
	adjustment range	50 min	/	/
	seat depth not adjustable	within 425 and 485	425* and 433*	yes
c	seat pad depth	380 min	436	yes
d	seat pad width	400 min	485	yes
e	seat pad angle - adjustable	-2°	-10° to -1°*	yes
	adjustment range	5°	9°	yes
	seat pad angle - not adjustable	+ 2° ÷ - 5°	/	/
<b>BACK REST</b>				
f	minimum and maximum lumbar support		150 to 270	
	difference (fmax - fmin) within 170 mm and 300 mm	50 min	100 of 120	yes
	range of the backrest / lumbar support	50 min	75	yes
	height of lumbar support - not adjustable	within 170 and 300	/	/
h	backrest height	360 min	600	yes
j	backrest width	360 min	419	yes
k	horizontal radius of the back rest	400 min	> 400	yes
l	back rest inclination (adjustment range)	15° min	31°	yes
y	angle between seat and back	90° min	114°	yes
<b>ARM REST</b>				
n	length of arm rest	150 min	228	yes
o	width of arm rest	40 min	77	yes
p	height of armrest - adjustable	225 to 250	175 to 260	yes
	adjustment range	50 min	85	yes
	height of armrest - not adjustable	within 225 and 275	/	/
q	distance from the backrest to the front of the armrests	350 max	307	yes
r	hip breadth clearance with armrests in widest position	460 min	545	yes
z	Clear distance between the armrests pads - adjustable	460 to 510	/	/
	Clear distance between the armrests pads - not adjust.	within 460 and 510	505	yes
<b>UNDERFRAME</b>				
s	maximum offset of the underframe	415 max	391	yes

\* The limit is included in the uncertainty interval associated with the measured value (see table 1 on page 3/3).

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TEST REPORT                      **306729 / 1 rev. 0**  
Date of issue:                      14/05/21  
Sample name:                        MESH K274 / B1

Table 1, ISO 24496:2017

symbol	Parameter	Uncertain at 95% confidence level (k=2)
<b>SEAT</b>		
a	seat height and sitting height	± 8 mm (seat) ± 15 mm (sitting)
b	seat depth	± 25 mm
c	seat pad depth	± 25 mm
d	seat pad width	± 10 mm
e	seat angle	± 2°
<b>BACK REST</b>		
f	height of lumbar support	± 25 mm
h	backrest height	± 15 mm
j	backrest width	± 10 mm
k	horizontal radius of the back rest	Not applicable
l	back rest inclination	± 4°
y	angle between seat and back	± 4°
<b>ARM REST</b>		
n	length of arm rest	± 5 mm
o	width of arm rest	± 5 mm
p	height of armrest	± 10 mm
q	distance from the backrest to the front of the armrests	± 40 mm
r	hip breadth clearance with armrests in widest position	± 20 mm
z	Clear distance between the armrests pads	± 60 mm
<b>UNDERFRAME</b>		
s	maximum offset of the underframe	± 8 mm

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<b>TEST REPORT</b>		
<b>306729 / 2</b>		
Revision:	0	
Date of receipt:	02/03/21	
Date of test:	01/04/21	
Date of issue:	14/05/21	
Sample name:	MESH K274 / B1	


**General design requirements EN 1335-2:2018, clauses 4.1 - 4.2**

Requirements	Remarks
<b>Clause 4.1</b>	
a) Edges of seat, back rest and arm rests in contact by the user are rounded $\geq 2$ mm	Yes
b) Edges of handles are rounded or chamfered in the direction of the force applied	Yes
c) All other edges and corner are free from burrs and rounded or chamfered	Yes
d) Ends of accessible hollow components are closed or capped	Hollow components not present
It shall not be possible for any load bearing part to come loose unintentionally	Yes
<b>Clause 4.2</b>	
Absence of shear and squeeze points, created by parts operated by powered mechanism.	Yes
Absence of shear and squeeze points, created by loads applied during normal use.	Yes

The test results comply with the requirements in clauses 4.1 and 4.2 of EN 1335-2:2018

Note: evaluation of accessible parts has been carried out according to CEN TR 17202:2018, clause 6.

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**306729 / 3**

Revision: 0  
Date of receipt: 02/03/21  
Date of test: 14/05/21  
Date of issue: 14/05/21



Sample name: MESH K274 / B1

**Information for use EN 1335-2:2018, clause 6**

Statement checked	Remarks
Information for use in the language of the country in which the chair will be delivered to the end user.	Italian language
a) Information regarding the intended use.	Present
b) Information regarding possible adjustments	Present
c) Instruction for operating the adjusting mechanisms.	Present
d) Instruction for the care and the maintenance of the chair.	Present
e) Information for chairs with seat height adjustments with energy accumulators that only trained personnel may replace or repair seat height adjustment components with energy accumulators.	Present
f) Information on the choice of castors in relation to the floor surface.	Present

The test results comply with the requirements in clause 6 of EN 1335-2:2018

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*l. o. c. u. e.*

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**TEST REPORT**  
**306729 / 4**

Revision: 0  
Date of receipt: 02/03/21  
Date of test: 02/04/21  
Date of issue: 14/05/21



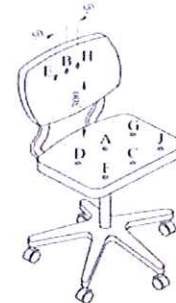
Sample name: MESH K274 / B1

**Work chairs: seat and back static load test EN 1728:2012+AC:2013**

**Test performed according to EN 1335-2:2018**

**Seat and back static load test, clause 7.3 of EN 1728:2012+AC:2013**

Seat height: highest position  
Seat inclination: horizontal  
Back rest in height: highest position  
Back rest in depth: /  
Position of castors: perpendicular to the base arms  
Tension of mechanism spring: medium



Test results:

Seat load N	Back force N	Number of cycles	Loading point	Back rest inclination mechanism	Remarks
1.600	520	5	A - B	Blocked	No defects
1.600	520	5	A - B	Unlocked	No defects

Note: according to EN 1728:2012+AC:2013 back force has been reduced from 560 N to 520 N to avoid tipping.

**Seat front edge static load, clause 7.4 of EN 1728:2012+AC:2013**

Seat height: highest position  
Seat depth: /

Test results:

Seat load N	Number of cycles	Back rest inclination mechanism	Remarks
1.600	10	F	No defects

The test results comply with the requirements in clause 5.2 of EN 1335-2:2018

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**TEST REPORT**  
**306729 / 5**

Revision: 0  
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Date of test: 02/04/21  
Date of issue: 14/05/21



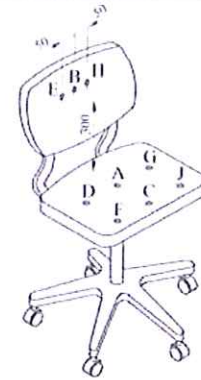
Sample name: MESH K274 / B1

**Work chairs: seat and back durability EN 1728:2012+AC:2013**

**Test performed according to EN 1335-2:2018**

Seat and back durability clause 7.9 of EN 1728:2012+AC:2013

Seat height: highest position  
Seat inclination: horizontal  
Back rest in height: highest position  
Back rest in depth: /  
Position of castors: perpendicular to the base arms  
Tension of mechanism spring: medium



**Test results:**

Number of cycles	Loading point	Force N	Back rest inclination mechanism	Remarks
120.000	A	1.500	Unlocked	No defects
40.000	C B	1200 320	Locked	No defects
40.000	C B	1200 320	Unlocked	No defects
20.000	J E	1200 320	Unlocked	No defects
20.000	F H	1200 320	Unlocked	No defects
20.000	D G	1100 1100	Unlocked	No defects

The test results comply with the requirements in clause 5.2 of EN 1335-2:2018

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**TEST REPORT**  
**306729 / 6**

Revision: 0  
Date of receipt: 02/03/21  
Date of test: 07/05/21  
Date of issue: 14/05/21



Sample name: .MESH K274 / B1

**Work chairs: arm rests durability EN 1728:2012+AC:2013**

**Test performed according to EN 1335-2:2018**

Arm rest durability, clause 7.10 of EN 1728:2012+AC:2013

Seat height: lowest position  
Seat inclination: horizontal  
Armrest positioning: highest and foremost

**Test results:**

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

The test results comply with the requirements in clause 5.2 of EN 1335-2:2018

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**TEST REPORT**  
**306729 / 7**

Revision: 0  
Date of receipt: 02/03/21  
Date of test: 14/05/21  
Date of issue: 14/05/21



BRADO S.P.A.  
VIA CAL DI MEZZO 3  
31030 BIGOLINO DI VALDOBBIADENE (TV)  
ITALIA

Sample name: , MESH K274 / B1

**Work chairs: arm rest downward static load test-central EN 1728:2012+AC:2013**

**Test performed according to EN 1335-2:2018**

Arm rest downward static load test - central, clause 7.5 of EN 1728:2012+AC:2013

Seat height: lowest position  
Seat inclination: horizontal  
Armrest positioning: highest and foremost

Test results:

Load on the arm rest	Number of cycles	Remarks
750	5	See note
900	5	No defects

Note: after the functional load of 750 N the chair does not overbalance.

The test results comply with the requirements in clause 5.2 of EN 1335-2:2018

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TEST REPORT  
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Revision: 0  
Date of receipt: 02/03/21  
Date of test: 14/05/21  
Date of issue: 14/05/21



Sample name: MESH K274 / B1

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

Type of chair: tilting

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 : /  
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: 141 N : does not overturn

Tilting seating, clause 7.4.2 : does not overturn

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 : /

Note: The test has been carried out after the functional load on the arm rest.

The test results comply with the requirements in clause 4.4 of EN 1335-2:2018.

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**TEST REPORT**  
**306729 / 9**

Revision: 0  
Date of receipt: 02/03/21  
Date of test: 14/05/21  
Date of issue: 14/05/21



Sample name: MESH K274 / B1

**Work chairs: rolling resistance of unloaded chair EN 1728:2012+AC:2013**

**Test performed according to EN 1335-2:2018**

Rolling resistance of unloaded chair, clauses 6.30 and 7.14 of EN 1728:2012+AC:2013

Type of castors: W  
Test surface: steel floor  
Test speed: 50 mm/s  
Seat height: lowest position

**Test results:**

Measured resistance of castors N	Minimum allowed resistance N	Remarks
27,6	12	No defects

Unless otherwise specified, measurement uncertainty expanded to a confidence level of about 95% are  $\pm 2,0$  N.

The measurement uncertainties stated in this document have been determined according to UNI CEI ENV 13005:2000. They were estimated as expanded uncertainty obtained multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Normally  $k=2$ .

The test results comply with the requirements in clause 5.2 of EN 1335-2:2018

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