

Technical Report No. 68.190.16.01266.01C.1 Rev. 00 Dated 2016-06-28

Client:	SPACIO VINCOLO SL
Manufacturing place:	/
Test subject:	Product: D00220MF Type: D00220MF
Test specification:	EN1335-1:2000; EN1335-2:2009; EN1335-3:2009
Purpose of examination:	Test according to the client's requirement.
Test result:	PASS Details see the test result in report Clause 3.

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1 Description of the test subject

1.1 Function

Manufacturer's specification for intended use: Type of product: D00220MF Type designation: D00220MF

1.2 Technical Data

Height: 918 mm -1028 mm Width: 640 mm Depth: 605 mm Net weight: 12.5 kg

1.3 Sample photos



2 Order

2.1 Date of Purchase Order, Customer's Reference

2016-06-01

2.2 Receipt of Test Sample, Location

2016-06-01, TÜV SÜD Certification and Testing (China) Co., Ltd. Guanlan lab No.11, Jukeng Rd., Juling Village, Jutang District, Guanlan, Longhua New District, Shenzhen, 518110, P.R.China Revised sample was received at 2016-06-06

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2.3 Date of Testing

From 2016-06-02 to 2016-06-24 Retest from 2016-06-06 to 2016-06-28

2.4 Location of Testing

TÜV SÜD Certification and Testing (China) Co., Ltd. Guanlan lab No.11, Jukeng Rd., Juling Village, Jutang District, Guanlan, Longhua New District, Shenzhen, 518110, P.R.China

2.5 Points of Non-compliance or Exceptions of the Test Procedure

None

3 Test Results

Abbreviations:				
P(ass) =passed	F(ail) = failed	NA = not applicable	NT = not tested	

	EN1335-1:20	00	
Clause	Requirement ~Test	Measuring result -Remark	Verdict
6	Determination of dimensions	Comply types C	Р
	The dimension of the chair shall comply		
	with one of the types of annex A.		
6.1	Seat height a	387mm-480mm	Р
6.2	Seat depth b	440mm	Р
6.3	Depth c of seat surface	505mm	Р
6.4	Seat width d	520mm	Р
6.5	Inclination e of seat surface	-2°22°	Р
6.6	Height f of the back supporting point	210mm	Р
	"S" above the seat surface		
6.7	Height g of the back pad	475mm	Р
6.8	Height h of the upper edge of the back	523mm	Р
	rest above the seat surface		
6.9	Back rest width i	487mm	Р
6.10	Horizontal radius k of back rest	490mm	Р
6.11	Back rest inclination adjustment	19 [°]	Р
	range L("tilt")		
6.12	Length n of the useful area of the arm	237mm	Р
	rest		
6.13	Width o of the useful area of the arm	80mm	Р
6 1 4	Height p of the useful area of the arm	108mm 271mm	
0.14	Height p of the useful area of the arm	198mm-271mm	P
6 1 5	Distance a from the front of the wooful	140mm	
0.15	area of the arm rosts to the front of the		
	of the seat		
6.16	Clear width r between the useful area	465mm	Р

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	of the arm rests		
6.17	Maximum offset s of the under frame	350mm	Р
6.18	Stability dimension t	270mm	Р

Annex A (normative) Dimensional requirements

Annex A (normative)

Dimensional requirements

Table A.1	- Dimensions	ofan	office	work	chair

Dimension[symbcl]		Adjustability		Type	A			Type	В			Type	С	
			(-) allow.	Min. ^{a)}	Max.a)	(+) alow.	(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.	(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.
SEA ⁻														
seat height ^{b)}	а	adjustable adjustment range	yes no	400 120	510 ⊕	yes yes	yes no	420 100	510 ⊕	yes yes	yes no	420 80	480 ⊕	yes yes
seat depth	b	non-adjustable adjustable adjustment range	yes no	no 400 50	no 420 ⊕	yes yes	no yes no	380 400 50	440 420 ⊕	no yes yes	no yes	380 400 ⊕	• •	yes yes
depth of seat surface	C		no	380	Ð	yes	no	380	Ð	yes	no	380	Ð	yes
seat width	d		no	400	⊕	yes	no	400	•	yes	no	400	•	yes
inclination of seat surface	e	non-adjustable adjustable adjustment range	yes no	no -2° 6°	no -7° ⊕	yes yes	no yes	-2° -2° ⊕	-7° -7° ⊕	no yes	no yes	-2° -2° ⊕	-7° -7° ⊕	no yes
BACK REST														
Height of the back supporting point "S" above the seat surface	f	non-adjustable adjustable adjustment range	yes no	no 170 50	no 220 ⊕	yes yes	no yes no	170 170 50	220 220 ⊕	no yes yes	no	170 ⊕ ⊕	220 ⊕ ⊕	no
height of the back pad - adjustable in height - non-adjustable in height	g		no no	220 260	⊕	yes yes	no no	220 260	⊕	yes yes	no	⊕ 260	⊕	yes
height of the upper edge of the back rest above the seat surface	h		no	360	Ð	yes	no	360	⊕	yes	no	360	⊕	yes
back rest width	i		no	360	Ð	yes	no	360	⊕	yes	no	360	⊕	yes
horizontal radius of the back rest	k		no	400	Ð	yes	no	400	⊕	yes	no	400	Θ	yes
back rest inclination	1	adjustment range	no	15°	Ð	yes	no	15°		ves		Ð	•	

Table A .1 - Dimensions of an office work chair (concluded)

djustability (- allo	-) N ow.	Ain. ^{a)}	Max. ^{a)}	(+)	(-)	Min.a)	May a)	(+)	1.5		Man 3)	(+)
				anow.	allow.		WIGA.	allow.	(-) allow.	Min."	Max.	allow
	0	200	•	yes	no	200	•	yes	no	200	Ð	yes
n	10	40	Ð	yes	no	40	Ð	yes	no	40	Ð	yes
n adjustable n adjustable ye	es i	200 200	250 250	no yes	no yes	200 200	250 250	no yes	no yes	200 200	250 250	no yes
n	10	100	⊕	yes	no	100	۲	yes	no	100	⊕	yes
n	10 4	460	510	no	no	460	510	no	no	460	Ð	yes
												_
ye	es	⊕	365 ^{f)}	no	yes	⊕	365 ^{f)}	no	yes	Ð	x ^{g)} +50	no
n	0	195	•	yas	no	195	Ð	yes	no	195	⊕	yes
	n adjustable r adjustable y r r r y y Max. values must	n adjustable no adjustable no no no no yes yes no Max, values must be obta	n adjustable adjustable adjustable no 200 yes 200 no 100 no 460 yes ⊕ yes ⊕ no 195 Max. values must be obtained. suitable for working surface heigi	n adjustable no djustable no 200 250 yes 200 250 no 100 ⊕ no 460 510 yes ⊕ 365 ^f) yes ⊕ 365 ^f) Max. values must be obtained. suitable for working surface heights betwe	n adjustable no 40 ⊕ yes adjustable no 200 250 no yes 200 250 yes no 100 ⊕ yes no 460 510 no yes ⊕ 365 ¹ no no 195 ⊕ yes Max. values must be obtained. suitable for working surface beights between at lea	no 40 ⊕ yes no nadjustable no 200 250 no no adjustable yes 200 250 yes yes no 100 ⊕ yes no no 460 510 no no yes ⊕ 365 ^f) no yes no 195 ⊕ yas no	no 40 ⊕ yes no 40 nadjustable no 200 250 no no 200 adjustable yes 200 250 yes yes 200 no 100 ⊕ yes no 100 no 460 510 no no 460 yes ⊕ 365 ^f) no yes ⊕ no 195 ⊕ yas no 195	no 40 ⊕ yes no 40 ⊕ nadjustable no 200 250 no no no 200 250 adjustable yes 200 250 yes yes 200 250 no 100 ⊕ yes no 100 ⊕ no 100 ⊕ yes no 100 ⊕ no 460 510 no no 460 510 yes ⊕ 365 ^{f1} no yes ⊕ 365 ^{f1} no 195 ⊕ yas no 195 ⊕ Max. values must be obtained. suitable for working surface heights between at least 660 mm and 780 mm. For For For	n adjustable adjustable no 40 ⊕ yes no 40 ⊕ yes adjustable no 200 250 no no no 200 250 yes 200 250 yes adjustable no 100 ⊕ yes no 100 ⊕ yes no 100 ⊕ yes no 100 ⊕ yes no 460 510 no no 460 510 no yes ⊕ 365 ^{f1} no yes ⊕ 365 ^{f1} no no 195 ⊕ yas no 195 ⊕ yes	no 40 ⊕ yes no 40 ⊕ yes no adjustable no 200 250 no no 200 250 no no 200 250 no no adjustable yes 200 250 yes yes 200 250 yes yes yes yes yes no 100 ⊕ yes no 100 ⊕ yes no no 460 510 no no 460 510 no no yes ⊕ 365 ^f no yes ⊕ 365 ^f no yes no 195 ⊕ yes no 195 ⊕ yes no	no 40 ⊕ yes no 40 ⊕ yes no 40 adjustable no 200 250 no no 200 250 no no 200 adjustable yes 200 250 yes yes 200 250 no no 200 no 100 ⊕ yes no 100 ⊕ yes no 100 no 460 510 no no 460 510 no no 460 yes ⊕ 365 ^f) no yes ⊕ 365 ^f) no yes ⊕ no 195 ⊕ yas no 195 ⊕ yes no 195	no 40 \oplus yes no 40 \oplus yes no 40 \oplus adjustable no 200 250 no no 200 250 no no 200 250 no no 200 250 yes 200 250 yes yes 100 \oplus yes no 100 \oplus yes yes yes yes

See clause 4.
 No requirement specified.

	EN1335-2:2009		
Clause	Requirement ~Test	Measuring result -Remark	Verdict
4	Safety requirements		

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4.1	General design requirements		
4.1.1	Corners and edges, trapping, pinching and	Meet requirement.	Р
	shearing		
	The chair shall be so designed as to minimise		
	the risk of injury to the user.		
	All parts of the chair with which the user		
	comes into contact during intended use, shall		
	be so designed that physical injury and		
	damage to property are avoided.		
	These requirements are met when:		
	a) The safety distance of accessible		
	movable parts is either ≤8mm or		
	≥25mm in any position during move- ment;		
	b) Accessible corners are rounded with		
	minimum 2mm radius;		
	c) The edges of the seat, back rest and		
	user when sitting in the chair are		
	rounded with minimum 2mm radius;		
	d) The edges of handles are rounded		
	rection of the force applied;		
	 All other edges are free from burrs and rounded or chamfered; 		
	f) The ends of accessible hollow com-		
	ponents are closed or capped.		
4.1.2	Adjusting devices	Meet requirement.	Р
	Movable and adjustable parts shall be		
	designed so that injuries and inadvertent operation are avoided.		
	It shall be possible to operate the adjusting		
413	Connections	Meet requierment	P
	It shall not be possible for any load bearing		
414	Avoiding of soiling	Meet requierment	Р
	All parts which are lubricated to assist sliding		
	to protect users from lubricant stains when in		
	normal use.		
4.2	I est sequence The chair shall be tested in the following		
	sequence of tests of EN 1335-3:		

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	 a) Stability tests (optional); b) Rolling resistance test (optional); c) Seat and back rest tests; d) Foot rest static load test; e) Arm rests durability test; f) Armrest downward static load test – central (see table A.2, Footnote a); g) Stability test; h) Arm rest downward static load test – central (see table A.2, Footnote b); i) Rolling resistance test 		
4.3	Stability during use	Meet requirement.	Р
	 The chair shall not overbalance under the following conditions: a) by pressing down on the front edge of the seat surface in the most adverse position; b) by leaning out over the arm rests c) by leaning against the back rest; d) by sitting on the front edge The first requirement is fulfilled if the chair does not overbalance when tested according to EN 1335-3:2009, 7.1.1 and under the given forces and test cycles according to table A.1 does not tip over.		
	The second and forth requirements are fulfilled if the chair does not overbalance when tested according to EN 1335-3:2009, 7.1.2, 7.1.3, 7.1.4 and 7.1.5 and under the given forces and test cycles according to table A.1 does not tip over. The third requirement is fulfilled if the chair does not overbalance when tested according to EN 1335-3:2009, 7.1.6 oder 7.1.7 and under the given forces and test cycles according to table A.1 does not tip over. The forces and test cycles in table A.1 are to be applied for the setting of the chair		
	be applied for the setting of the chair		
	components table 1 counts in the appendix of		
1.1	Rollig resistance of the unloaded chair	Moot roquiromont	D
4.4	 The unloaded chair shall not roll unintentional. This requirement is met when: a) the castors are of identical construction; b) the rolling resistance ≥ 12 N when 	Caster have spring locking device.	r r
	tested according to EN 1335- 3:209,7.4		

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15	Strength and fatigue strength	Most requirement	Р
4.5	ou ongan and ranged ou ongan	meet requirement.	P
	The chair must be constructed in such a way		
	that he shows no injury risk for the user under		
	the following conditions:		
	, and the second s		
	a) Put concentric and external-concentric		
	on the seat;		
	b) to seats and moving forwards, to the		
	back and aside;		
	c) leaning out over the armrest;		
	 Support on the armrest to get up. 		
	The requirements equation fulfilled if the test is		
	I ne requirements count as fulfilled if the test is		
	Carried out accordingly EN 1335-32009,		
	the given forces and test cycles according to		
	table A 2 and		
	e) no chair part component or connect-		
	ing element has broken:		
	f) itself no connecting element has		
	solved which must stick;		
	g) itself no weight-bearing element sig-		
	nificantly has deformed and the chair		
	his functions after distance of the test		
	loads fulfilled		
	h) After the test of EN 1335-3:2009,		
	7.2.3 and under the given forces and		
	test cycles according to table A.2 the		
_	armrests show no damages.		
5	Information for use	Information for use was not	NI
	Each chair shall be accompanied by informa	provided.	
	tion for use in the language of the sountry in		
	which it will be delivered to the end user. It		
	shall contain at least the following details:		
	a) Information regarding the intended		
	Use:		
	b) Instruction regarding possible adjust-		
	ments and chair type (see EN 1335-		
	1:2000)		
	c) Instruction for operating the adjusting		
	mechanisms;		
	d) Instruction for the care and mainte-		
	nance of the chair;		
	e) Information regarding all adjustments;		
	 Information for chairs with seat height 		
	adjustments with energy accumulators		
	nationing trained personnel may re-		
	components with energy accumula		
	tors:		
	a) Information on the choice of castors in		
	relation to the floor surface.		

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	EN1335-3:2009		
4.5	Sequence of testing		
	All applicable tests shall be carried out on the same sample.		
	The sequence of the safety tests shall be as specified in EN1335-2:2009,4.2		
	If functional tests shall be carried out, this shall be done in the sequence of tableC.1 after completing all the safety tests specified in EN 1335-2.		
4.6	Inspection and assessment of results	Meet requirement.	Р
	 After completion of each test, inspect the unit again. Record any changes including: a) Fracture of any component or joint; b) Loosening of any joint intended to be rigid, which can be demonstrated by hand pressure; c) Deformation or wear of any part or component such that its function is impaired; d) Loosening of any means of fixing components to the unit; e) Changes that may affect stability; 		
7	Test methods		
1	I ESI MEMOUS		
7.1	Stability Position the chair on the test surface whit its	See Table A.1 and Table 1 at page 13, 15.	
7.1	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1.	See Table A.1 and Table 1 at page 13, 15.	
7.1	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7	See Table A.1 and Table 1 at page 13, 15.	
7.1	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7. Forwards overhalancing	See Table A.1 and Table 1 at page 13, 15.	 P
7.1	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7. Forwards overbalancing - 27 kg needs to hang freely, so that the chair not tips.	See Table A.1 and Table 1 at page 13, 15. Fulfilled.	 P
7.1	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7. Forwards overbalancing - 27 kg needs to hang freely, so that the chair not tips. Forwards overbalancing	See Table A.1 and Table 1 at page 13, 15. Fulfilled.	 P P
7.1	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7. Forwards overbalancing - 27 kg needs to hang freely, so that the chair not tips. Forwards overbalancing position the chair with two adjacent supporting points on the front against the stops.	See Table A.1 and Table 1 at page 13, 15. Fulfilled. Fulfilled.	 P P
7.1.1	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7. Forwards overbalancing - 27 kg needs to hang freely, so that the chair not tips. Forwards overbalancing position the chair with two adjacent supporting points on the front against the stops. Apply by means of the stability loading device a vertical force F1 acting 60 mm from the front edge of the load bearing structure of the seat at those points most likely to result in overturning. Apply for at least 5s a horizontal outwards force F2 from the point on the seat surface where the vertical force is applied.	See Table A.1 and Table 1 at page 13, 15. Fulfilled. Fulfilled.	 P P
7.1.1 7.1.2 7.1.2 7.1.3	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7. Forwards overbalancing - 27 kg needs to hang freely, so that the chair not tips. Forwards overbalancing position the chair with two adjacent supporting points on the front against the stops. Apply by means of the stability loading device a vertical force F1 acting 60 mm from the front edge of the load bearing structure of the seat at those points most likely to result in overturning. Apply for at least 5s a horizontal outwards force F2 from the point on the seat surface where the vertical force is applied. Forwards overbalancing by chairs with	See Table A.1 and Table 1 at page 13, 15. Fulfilled. Fulfilled.	 P P
7.1.1 7.1.2 7.1.2 7.1.3	Stability Position the chair on the test surface whit its components as specified in 4.1 and table1. Record whether the chair overturns during the tests in 7.1.1 to 7.1.7. Forwards overbalancing - 27 kg needs to hang freely, so that the chair not tips. Forwards overbalancing position the chair with two adjacent supporting points on the front against the stops. Apply by means of the stability loading device a vertical force F1 acting 60 mm from the front edge of the load bearing structure of the seat at those points most likely to result in overturning. Apply for at least 5s a horizontal outwards force F2 from the point on the seat surface where the vertical force is applied. Forwards overbalancing by chairs with footrest	See Table A.1 and Table 1 at page 13, 15. Fulfilled. Fulfilled. Product without footrest.	 P P NA

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7.1.5 Stoeways overbalancing for chains with mrest Public Chains with See table A.1 at page 13. P Position the chair with two adjacent supporting points on one side against the stops. See table A.1 at page 13. P Apply by means of the stability loading device a vertical force F1 acting at a point 100mm from the froce and aft centre line of the seat at the side where the supporting points are restrained and between 175mm and 250mm forward of the rear edge of the seat Apply a wertical downward force F2 acting at points on the arm rest which is on the same side as the restrained supporting points up to a maximum 40mm inwards from the outer edge of the upper surface of the arm rest. But not beyond the centre of the arm rest. But not beyond the centre of the arm rest. But not beyond the centre of the arm rest. Sut not beyond the centre of the arm rest sup to a maximum 40mm inwards from the same side as the same point for at least 5s. Fulfilled. P 7.1.6 Rearwards overbalancing of chairs without inclinable back rest Fulfilled. P 7.1.6 Rearwards overbalancing of chairs without adjustment is fitted it shall be set in the most adverse configuration. Fulfilled. P 7.1.7 Rearwards overbalancing of chairs with inclinable back rest applied on the axis. If height adjustable, the axis shall be set as close as possible to 300mm above pointA. Fulfilled. P 7.1.7 Rearwards overbalancing of chairs with inclinable back rest - The chair will be loaded with 13 slabs See table A.1 at page 13. P <td< th=""><th>745</th><th>Cidewaya awarkalan aina fan akaina with</th><th></th><th></th></td<>	745	Cidewaya awarkalan aina fan akaina with		
aim rest See table A.1 at page 13. Position the chair with two adjacent supporting points on one side against the stops. Apply by means of the stability loading device a vertical force F1 acting at a point 100mm from the froce and aft cartre line of the seat at the side where the supporting points are restrained and between 175mm and 250mm forward of the rear edge of the seat. Apply a vertical downward force F2 acting at points on the arm rest which is on the same side as the restrained supporting points up to a maximum 40mm inwards from the outer edge of the upper surface of the arm rest. But not beyond the centre of the arm rest. Such at the stops. When an independent lumbar adjustment is fitted it shall be set in the most adverse configuration. A vertical force F1 shall be applied at point A and a horizontal sizebove the height of the eat and is free to move, the horizontal force shall be applied on the axis. If height adjustable, the axis shall be set as close as possible to 300mm above pointA. Fulfilled. P 7.1.7 Rearwards overbalancing of chairs with inclinable back rest - The chair will be loaded with 13 slabs Fulfilled. P 7.2 Staic load of the seat overbal- ancing See table A.2 at page 14. P	7.1.5	Sideways overbalancing for chairs with	Fulfilled.	Р
Position the chair with two adjacent supporting points on one side against the stops. Apply by means of the stability loading device a vertical force F1 acting at a point 100mm from the froce and aft centre line of the seat at the side where the supporting points are restrained and between 175mm and 250mm forward of the rear edge of the seat. Apply a vertical downward force F2 acting at points on the arm rest which is on the same side as the restrained supporting points up to a maximum 40mm inwards from the outer edge of the upper surface of the arm rest. But not beyond the centre of the arm rest, and at the most adverse position along its length. Apply a horizontal sideways force F3 outward from the same point for at least 5s. Fulfilled. P 7.1.6 Rearwards overbalancing of chairs without inclinable back rest Fulfilled. P 7.1.6 Rearwards overbalancing of chairs without inclinable back rest Fulfilled. P 7.1.7 Rearwards overbalancing of chairs with inclinable back rest Fulfilled. P 7.1.7 Rearwards overbalancing of chairs with inclinable back rest Fulfilled. P 7.1.7 Rearwards overbalancing of chairs with inclinable back rest Fulfilled. P 7.2.1 Testin will be loaded with 13 slabs See table A.1 at page 13. at page 14-15. extice and the popication of force point YF" or "J". A vertically downwards affected strength F1 is to be raised by the centre of the pressure samp. P 7.2.2 Combined Testing		arm rest	See table A.1 at page 13.	
Position the Unit with adjustent supporting points on one side against the stops. Apply by means of the stability loading device a vertical force F1 acting at a point 100mm from the froce and at centre line of the seat at the side where the supporting points are restrained and between 175mm and 250mm forward of the rear edge of the seat. Apply a vertical downward force F2 acting at points on the arm rest which is on the seat. Apply a vertical downward force F3 outward from the same point for at least 55. 7.1.6 Rearwards overbalancing of chairs without inclinable back rest Fulfilled. 7.1.6 Rearwards overbalancing of chairs without inclinable back rest See table A.1 at page 13. 7.1.6 Rearwards overbalancing of chairs without inclinable back rest See table A.1 at page 13. 7.1.7 Rearwards overbalancing of chairs without inclinable back rest See table A.1 at page 13. 7.1.7 Rearwards overbalancing of chairs with inclinable back rest See table A.1 at page 13. 7.1.7 Rearwards overbalancing of chairs with inclinable back rest Fulfilled. 7.1.7 Rearwards overbalancing of chairs with inclinable back rest Fulfilled. 7.1.7 Rearwards overbalancing of chairs with inclinable back rest Fulfilled. 7.2 Staic load tests See table A.2 and Table 1 aroing ancing 7.2.1 Testing with stable doof the seat overbal- ancing Fulfill		Desition the chair with two odiacont supporting		
Apply by means of the stability loading device a vertical force F1 acting at a point 100mm from the froce and alt centre line of the seat at the side where the supporting points are restrained and between 175mm and 250mm forward of the rear edge of the seat. Apply a vertical downward force F2 acting at points on the arm rest which is on the same side as the restrained supporting points up to a maximum 40mm inwards from the outer edge of the upper surface of the arm rest. But not beyond the centre of the arm rest, and at the most adverse position along its length. Apply a horizontal sideways force F3 outward from the same point for at least 55. Fulfilled. P 7.1.6 Rearwards overbalancing of chairs without inclinable back rest Fulfilled. P 7.1.6 Rearwards overbalancing of chairs without inclinable back rest Fulfilled. P 7.1.6 Rearwards overbalancing of chairs without inclinable back rest Fulfilled. P 7.1.7 Rearwards overbalancing of chairs with inclinable back rest as is likely tha digutable, the axis shall be set as close as possible to 300mm above pointA. Fulfilled. P 7.2.1 Staic load tests See table A.1 at page 13. at page 14-15. at page 14-15. 7.2.1 Testing with static load of the seat overbal- ancing Fulfilled. P 7.2.2 Combined Testing with static load of the pressure samp. Fulfilled. P 7.2.3 Testing with static load of the seat overb		Position the chair with two adjacent supporting		
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7.2.2 Combined Testing with static load the seat and back rest Fulfilled. P		I ne small seat-pressure stamp is to be		
or J : A ventically downwards alrected strength F1 is to be raised by the centre of the pressure stamp. 7.2.2 Combined Testing with static load the seat and back rest Fulfilled. P		positioned in the application of force point "F"		
stamp. 7.2.2 Combined Testing with static load the seat and back rest Fulfilled. P		5. A venucally downwards affected strength		
7.2.2 Combined Testing with static load the seat and back rest Fulfilled. P		stamn		
and back rest	722	Combined Testing with static load the seat	Fulfilled	P
		and back rest	See table A.2 at page 14.	•

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	Of a regression of the chair is by stop devices which Roll behind both neighbouring supporting points (rolls or sliders) are attached in the back of the chair.		
	The chairs which dispose of locking device for the seat and/or the inclination of the back support are to be checked first half of the cycles with barred device and afterwards other cycle half with unbarred device. In the first cycle half the back support must be in straight position.		
	A vertical strength F1 is to be raised by the seat-pressure stamp in point "A" . The seat is to be loaded furthermore and to raise a strength F2 by the centre of the back supports-pressure stamp in the point "B". With full load the strength must attack under a corner of 90 ° \pm 10 ° to the back support level. If the chair threatens to tip, the strength working on the back support is to be reduced and to give the really working strength. First the back support is to be relieved and afterwards the seat.		
7.2.3	Testing the arm rests by meaning of downwards affected the static load	Fulfilled.	Р
	concentric	See lable A.2 al page 14.	
	The armrests are by meaning of the local pressure stamps vertically. The application of force points must be in the centre of the armrest length and both ways centred. The strength is to be raised on both armrests at the same time		
7.2.4	Testing the arm rests by meaning of	Fulfilled.	Р
	downwards affected the static load forward	See table C.1 at page 14.	
	The armrests are by meaning of the local pressure stamps vertically. The application of force points must show a distance to the leading edge of 75 mm and be on both sides		
	centred. The strength is to be raised on both armrests at the same time.		
7.2.5	Testing the arm rests by meaning of sideways affected the static load forward	Fulfilled.	Р
	Sideways anected the Static Idau IDI Ward	See table C.1 at page 14.	
	A horizontally outwardly working strength is to be raised on both armrests at the same time.		
	The forces are to be raised on the edge of the		
	causes a failure, but at least 75 mm of forward		
726	or backward edge in the earliest one remotely Testing the footrest by meaning of the	Product without footrest	NA
1.2.0	static load		
			1





7.3	Durability tests		
	Position the chair and its components as specified in 4.1 and table 1 on the test surface except for the castor and chair base durability test (7.3.5).		
7.3.1	Durable Functionality of the seat and the	Fulfilled.	Р
	back rest	Saa tabla A 2 at paga 14	
	The upper top of the chair is to be positioned in such a way that the middle of the back support concentric between two neighbouring Abstützpunkten (or planing hulls) of the underframe considers and to itself in this support points stop devices consider. The seat load is to be raised under use of the seat-pressure stamp vertically. The back support strength must be raised under a corner of 90 ° \pm 10 ° to the back support if this is fully loaded under use of the back supports-pressure stamp.	See table A.2 at page 14.	
	Chairs with locking device (s) for the seat and/or inclination movements of the back support are to be checked in step 2 half of the cycles first with the device (s) in locking positions and afterwards in the second cycle half in unbarred position. In the first cycle half the back support must be in straight position. With the steps 3, 4 and 5 the mechanism must be put freely flexibly.		
	A cycle must exist of the application and removing the strength / forces in the suitable application of force points.		
	Every step must be concluded, before the next is to be begin.		
	The strength working on the seat is to be raised first and to maintain, while the back support strength is raised.		
	If the back support about the height of the seat is stored horizontally pendulous, the horizontal strength must be raised in the fulcrum. If the back support is heights-adjustable, the fulcrum must be put so near as possible to 300 mm about point "A" . If the fulcrum on 300 mm cannot be put, the strength is to be adapted in such a way that she generates the same moment of curving.		
	All chairs are to be tested to the steps 1 to 5 accordingly (see table 2).		

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	Tabelle 2 — Prüfur von Sitzf	ng der Dauerfunktionstüchtigkeit läche und Rückenlehne		
	Schritt	Kraftangriffspunkt (siehe Bild 6)		
	1	A		
	2	С — В		
	3	J — E		
	4	F — H		
	5	D — G		
		77		
7.3.2	Durable Functi	onality of the arm rests	Fulfilled.	Р
	On the armrests strength in the p which lie 100 m the armrest leng with the pressur port. With this st that every "arm" corner of 10 ° ± length of the "ar amount to 600 m	is concurrent and to raise a points cyclically in each case in behind the foremost point of gth. A strength from (10 ± 5) N is stamp is to be raised in sup- trength the testing set is so put of the testing set shows a 1° to the perpendiculars. The m" of the testing set must nm ± 10 mm. The armrests beformable	See table A.2 at page 14.	
7.3.3	Swivel test		Fulfilled.	Р
7.2.4	The underframe with a test surfa of rotation of the of the table agree is to be fastened rotation of the un seat is to be loa point "A" with a of force point "C equivalent load strength down w same moment of must amount to from (10 ± 5) cy rection is to be to tion.	a of the chair is on a turntable ce to to protect so that the axis a chair with the axis of rotation ees. The upper top of the chair d in such a way laxly that the inderframe is not hindered. The ded in the application of force mass M1 and in the application " with a mass of M ² or with any which leads to the same vorking on the chair and the of curving. The rotary corner 360 ° with a test frequency cles / minute. The rotation di- urned around after every rota-	See table C.1 at page 14.	
7.3.4	Durable Functi	onality of the footrest	Product without footrest.	NA
7.3.5	Durable Functi	onality of the casters and the	Fulfilled.	Р
	This test does n which are brake The chair is on a to put in such a the chair with th agrees. The sea with M1. The un	ot count to chairs with roles d with a load of the chair. a turntable with a test surface way that the axis of rotation of e axis of rotation of the table it is to be loaded in point "A" derframe is to be protected so	See table C.1 at page 14.	

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	the roles is not hindered during the check. The roles must remain freely tiltable, the table must be turned at a speed of 6 cycles minute. The rotary corner goes back from 0 ° to 180 ° and A cycle exists from Forward and a reverse rotation. Alternatively the chair on a device is to be fastened which allows a linear movement from (1,000 ± 250) to mm and shows a test surface after 5.11. The seat is to be loaded in point "A" with M1. The underframe is to be protected so that it cannot turn, but the natural movement of the roles is not hindered during the test. The roles must be freely tiltable; the device must be turned at a speed of 6 cycles minute. A cycle exists from Forward and a regression.		
7.4	Testing of rollig resistance of the unloaded chair The chair is put on the test surface (a steady, horizontal and level surface) and is pulled about a distance of at least 550 mm and is pushed. About the measuring distance must be kept a speed from (50 ± 5) mm / sec. The strength is raised at a height of (200 ± 50) mm above the test surface. As a rolling opposition counts the strength them is required to pull the chair about a distance of 250 mm to 500 mm and to push.	Fulfilled. Caster have spring locking device.	Ρ

Loads, masses and cycles for safety tests

Clauses given in EN 1335-3:2009	Test		Loads	Cycle
7.1.1	Front edge overturning	M ₁	27 kg	1
740	Forward overturning	F1	600 N	
7.1.2		F ₂	20 N	
7.1.3	Francess in containing for the large with front materia	F1	1 100 N	
	Forward overturning for chairs with foot rests	F ₂	20 N	
7.1.4	Sideways systemized for sheirs without arm rests	F1	600 N	
	Sideways overturning for chairs without arm rests	F ₂	20 N	
		F1	250 N	
7.1.5	Sideways overturning for chairs with arm rests	F ₂	350 N	1
		F ₃	20 N	
7.1.6	Descuerds superiors of shelps without book sectionlineties	F1	600 N	
7.1.6	Rearwards overturning of chairs without back rest inclination	F ₂	192 N	
7.1.7	Rearwards overturning of chairs with back rest inclination	Number of discs:	13	1

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Clauses given in EN 1335-3:2009	Test		Loads	Cycles	
7.2.1	Seat front edge static load test	F1	1 600 N	10	
7.0.0	Combined as at and beat static load test	F1	1 600 N		
1.2.2	Combined seat and back static load test	F2	560 N	10	
7.2.6	Foot rest static load test	F	1 300 N	10	
7.3.1	Seat and back durability				
	Step 1 – Loading Point A	F	1 500 N	120 000	
	Step 2 – Loading Point C	F	1 200 N		
	Loading Point B	F	320 N	80 000	
	Step 3 – Loading Point J	F	1 200 N	~~~~	
	Loading Point E	F	320 N	20 000	
	Step 4 – Loading Point F	F	1 200 N	~~~~~	
	Loading Point H	F	320 N	20 000	
	Step 5 – Loading Point D and G (alternating)	F	1 100 N	20 000	
7.3.2	Arm rest durability	F	400 N	60 000	
7.2.3	Arm rest downward static load test - central	F	750 N ^a	ł	
		F	900 N ^b	5	

Annex C (informative)

Loads, masses and cycles for functional tests

The loads, masses and cycles are based upon use for 8 h a day by persons weighing up to 110 kg. For more severe conditions of use increased requirements will be necessary.

Table C.1 —	Loads, masse	s and cycles	for functional	tests
	,			

Clauses given in EN 1335-3:2009	Test		Loads	Cycles
7.2.4	Arm rest downward static load test – front		450 N	5
7.2.5	Arm rest sideways static load test		400 N	10
7.3.3	Swivel test	M1	60 kg	400.000
		M ₂	35 kg	120 000
7.3.4	Foot rest durability		900 N	50 000
7.3.5	Castor and chair base durability	M1	110 kg	36 000

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Clause	Test	Seat height	Seat	Back rest in height	Back rest in depth	Tilt stiffness adjustment	Castors and base	Arm rest	Foot rest
7.1.1	Front edge overturning	highest position	foremost position	highest position	foremost position	maximum tension	most likely to cause overturning	most likely to cause overturning	
7.1.2	Forward overturning	highest position	foremost position	highest position	foremost position	maximum tension	most likely to cause overturning	most likely to cause overturning	
7.1.3	forward overturning for chairs with foot rest	highest position	foremost position	lowest position	foremost position	maximum tension	most likely to cause overturning	most likely to cause overturning	most likely to cause overturning
7.1.4	Sideways overturning for chairs without arm rests	highest position	foremost position	highest position	foremost position	maximum tension	most likely to cause overturning	-	
7.1.5	Sideways overturning for chairs with arm rests	highest position	foremost position	highest position	foremost position	maximum tension	most likely to cause overturning	most likely to cause overturning	
7.1.6	Rearwards overturning of chairs without back rest inclination	highest position	rearmost position	highest position	rearmost position	minimum tension	most likely to cause overturning	most likely to cause overturning	
7.1.7	Rearwards overturning of chairs with back rest inclination	highest position	rearmost position	highest position	rearmost position	minimum tension	most likely to cause overturning	most likely to cause overturning	
7.2.1	Seat front edge static load test	highest position	foremost position	-		3 11	1000	(112)	
7.2.2	Combined seat and back static load	highest position	most adverse position	highest position	rearmost position	mid range	least likely to cause overturning		
7.2.3	Arm rest downward static load test – central	lowest position	horizontal	<u></u>	0220	57 <u>00</u>	·	most likely to cause failure	<u> </u>
7.2.4	Arm rest downward static load test - front	lowest position	horizontal		-	33		highest, foremost position	-
7.2.5	Arm rest sideways static load test	lowest position	horizontal	(7714)	(11)	0.00	-	highest, widest position	
7.2.6	Foot rest static load test						least likely to cause overturning	-	highest position
7.3.1	Seat and back durability	highest position	horizontal	highest position	most likely to cause failure	mid range	90° to the base arm	322	
7.3.2	Arm rest durability	lowest position	horizontal	675.6	0774	maximum tension	1000	highest, widest position	1775
7.3.3	Swivel test	highest position	horizontal, foremost position	highest position	rearmost position		-	-	
7.3.4	Foot rest durability						least likely to cause overturning		lowest position
7.3.5	Castor durability	lowest position	horizontal			10.000	10000	(777)	100

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--- End of Report ---

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