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TEST REPORT No. BBC 22-295

11 10 2022
Vilnius

Determination of strength, durability and safety for
Chair PRESTIGE II GTP (FI 640) (SENC)

Customer	CC NOWY STYL
Address of customer	88, Grygorivske Road, Kharkiv, 61020, Ukraina
Application for test	No. A 22-164-4, date 02 09 2022
Date of receive test object	02 09 2022
Manufacturer name	CC NOWY STYL
Indication of normative document	EN 16139:2013 including corrigendum EN 16139:2013/AC:2013, EN 1728:2012 including corrigendum EN 1728:2012/AC:2013, EN 1022:2018, EN 1335-2:2018
Date of test	05 09 2022 (beginning) 11 10 2022 (end)

Conclusion

Chair PRESTIGE II GTP (FI 640) (SENC) **complies** with the standard EN 16139:2013 including corrigendum EN 16139:2013/AC:2013 (Furniture – Strength, durability and safety – Requirements for non-domestic seating) level of test severity L1 requirements.

Test object

Chair PRESTIGE II GTP (FI 640) (SENC) with plastic armrests, soft seat and backrest, with regular five beam star shape base, swivelling on vertical axis. There are \varnothing 50 mm plastic castors of H type with a rolling resistance function fixed at the ends of base. Chair has these functions: height of seat adjustment, backrest angle adjustment, backrest height and backrest distance from seat adjustment. Base of seat and backrests is padded with foam and are upholstered with artificial leather. Height of soft parts is 35 mm. Armrest are made of plastic. Bottom of seat and rear part of backrest have a plastic covering. Height of seat is adjusted with gas lift using handle. Functions of backrest are fixed using M8 bolts with plastic handles. External dimensions of chair are: width 555 mm, maximum height 1120 mm. Maximum height of seat is 550 mm, minimum height is 420 mm. Height of base with castors is 140 mm. Description is for general information only.





Figure 1. Chair PRESTIGE II GTP (FI 640) (SENC

Normative documents and test methods

EN 16139:2013 including corrigendum EN 16139:2013/AC:2013 Furniture – Strength, durability and safety – Requirements for non-domestic seating.

EN 1728:2012 including corrigendum EN 1728:2012/AC:2013 Domestic furniture. Seating. Test methods for the determination of strength, and durability.

EN 1022:2018 Furniture - Seating - Determination of stability.

EN 1335-2:2018 Office furniture – Office work chair – Part 2 – Safety requirements.



Unless otherwise stated, the following tolerances are applicable:

- forces $\pm 5\%$ of the nominal force;
- velocities $\pm 5\%$ of the nominal velocity;
- masses $\pm 1\%$ of the nominal mass;
- dimensions ± 1 mm of the nominal dimension;
- angles: $\pm 2^\circ$ of the nominal angle.

The accuracy for the positioning of loading pads ± 5 mm.

Chair *PRESTIGE II GTP (FI 640) (SENC)* was stored in the laboratory room before the tests were performing. The tests were carried out in normal indoor ambient conditions at the temperature of $(20\pm 5)^\circ\text{C}$.

Test apparatuses

Apparatus 111 MP certificate No. 44, apparatus 115 P certificate No. 8, apparatus 194 MP certificate No. 27, apparatus 195 MP certificate No. 24, apparatus 241 MP certificate No. 22, apparatus 645 MB certificate No. 1.

Table 1. Chair *PRESTIGE II GTP (FI 640) (SENC)* test results

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail, N/A, N/T*
4 Safety, EN 16139:2013 including corrigendum EN 16139:2013/AC:2013		EN 16139:2013 including corrigendum EN 16139:2013/AC:2013		
4.1	General			
4.1	All parts of the seating with which the user comes into contact, during intended use This requirement is met when:	shall be designed to ensure that physical injury and damage are avoided, 4.1		
	- accessible corners	shall be rounded or chamfered, 4.1	no remarks	pass
	- edges of seat, back rest and arm rests which are in contact with the user when sitting in the chair	shall be rounded or chamfered, 4.1	no remarks	pass
	- the edges of handles in the direction of the force applied	shall be rounded or chamfered, 4.1	no remarks	pass
	- all other edges accessible during use	shall be free from burrs and rounded or chamfered, 4.1	no remarks	pass
	- ends of hollow components	shall be closed or capped, 4.1	no remarks	pass
	Movable and adjustable parts	shall be designed so that injuries and inadvertent operation are avoided, 4.1	no remarks	pass
	Load bearing part of the seating to come loose unintentionally	shall not be possible, 4.1	no remarks	pass
	All parts that are lubricated to assist sliding	shall be designed to protect users from lubricant stains when in normal use, 4.1	no remarks	pass
4.2	Shear and squeeze points			
4.2.1	Shear and squeeze points when setting up and folding The edges of parts moving relative to each other and creating shear and squeeze points	unless 4.2.2 or 4.2.3 are applicable, because the user can be assumed to be in control of his movements and to be able to cease applying the force immediately on experiencing pain. shall be as specified in 4.1, 4.2.1	no remarks	pass



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail, N/A, N/T*
4.2.2	Shear and squeeze points under influence of powered mechanisms	shall be no shear and squeeze points created by parts of the seating, 4.2.2	no remarks	pass
4.2.3	Shear and squeeze points during use	shall be no shear and squeeze points created by forces applied during normal use as well as during normal movements and actions, 4.2.3	no remarks	pass
4.3 Stability, 4.3.2 Swivelling chairs EN 16139:2013 with corrigendum EN 16139:2013/AC:2013		EN 16139:2013 with corrigendum EN 16139:2013/AC:2013, 4.3.1, 4.3.2, 5 The seating shall fulfil the relevant requirements of EN 1335-2:2018		
4.4 Stability tests and requirements, EN 1335-2:2018, Table 1				
7.3.3, EN 1022:2018	1. Corner stability - force F1 of 300 N - 1 cycle	After the testing the seating shall not overturn, 4.3.1	no remarks	pass
7.3.1, EN 1022:2018	2. Forward overturning - force F1 of 600 N, - force F2 of 20 N, - 1 cycle		no remarks	pass
7.3.2, EN 1022:2018	3. Forward overturning for chairs with foot rests - force F1 of 1100 N, - force F2 of 20 N, - 1 cycle			N/A
7.3.4, EN 1022:2018	4. Sideways overturning for chairs without arm rests - force F1 of 600 N, - force F2 of 20 N, - 1 cycle			N/A
7.3.5.1, and 7.3.5.2 EN 1022:2018	5. Sideways overturning for chairs with arm rests - force F1 of 250 N, - force F2 of 350 N, - force F3 of 20 N, - 1 cycle		no remarks	pass
7.3.6, EN 1022:2018	6. Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked - force F1 of 600 N, - height of loaded seat above the floor of 490 mm, - force F2 of 146 N - 1 cycle		no remarks	pass
7.4, EN 1022:2018	7. Rearwards overturning - number of discs: 13, - 1 cycle			N/A



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail, N/A, N/T*
4.4 Rolling resistance of the unloaded chair, EN 16139:2013 including corrigendum EN 16139:2013/AC:2013		EN 16139:2013 with corrigendum EN 16139:2013/AC:2013, 4.4		
6.30, EN 1728:2012	Rolling resistance of the unloaded chair	The unloaded chair shall fulfil the following requirements: - the castors shall be of same type; - the rolling resistance shall be ≥ 12 N;	no remarks	pass
6 Safety, strength and durability, EN 16139:2013 including corrigendum EN 16139:2013/AC:2013, table 1, level of test severity L1		EN 16139:2013 including corrigendum EN 16139:2013/AC:2013, level of test severity L1, 5		
6.4 EN 1728:2012	1. Seat and back static load test - seat: force of 1600 N, - back: force of 560 N (min. force of 410 N) - 10 times	safety, strength and durability requirements are fulfilled when during and after testing: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) no major structural element is significantly deformed; d) the seating fulfils its functions after removal of the test loads, 5	no remarks	pass
6.5 EN 1728:2012	2. Seat front edge static load test - force of 1300 N, - 10 times		no remarks	pass
6.6 EN 1728:2012	3. Vertical static load on back - seat load of 1300 N, - force of 600 N, - 10 times		no remarks	pass
6.8, 6.9 EN 1728:2012	4. Foot rest and leg rest static load test - force of 1300 N - 10 times			N/A
6.10 EN 1728:2012	5. Arm sideways static load test - force of 400 N - 10 times		no remarks	pass
6.11 EN 1728:2012	6. Arm downwards static load test - force of 750 N, - 5 times		no remarks	pass
6.13.1 6.13.2 EN 1728:2012	7. Vertical upwards static load on arm rests - seat load of 250 N, - lift 10 times during ≥ 10 s			N/A
6.17 EN 1728:2012	8. Seat and back durability test - seat force of 1000 N - back force of 300 N - 100 000 cycles		no remarks	pass
6.18 EN 1728:2012	9. Seat front edge durability test - force of 800 N, - 50 000 cycles		no remarks	pass
6.20 EN 1728:2012	10. Arm durability test - force of 400 N, - 30 000 cycles		no remarks	pass
6.21 EN 1728:2012	11. Foot rest durability test - force of 1000 N - 50 000 cycles			N/A



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail, N/A, N/T*
6.15 EN 1728:2012	12. Leg forward static load test - seat load of 1000 N, - force of 500 N - 10 times	safety, strength and durability requirements are fulfilled when during and after testing: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) no major structural element is significantly deformed; d) the seating fulfils its functions after removal of the test loads, 5	no remarks	pass
6.16 EN 1728:2012	13. Leg sideways static load test - seat load of 1000 N, - force of 400 N, - 10 times		no remarks	pass
6.24 EN 1728:2012	14. Seat impact test - drop height of 240 mm, - 10 times		no remarks	pass
6.25 EN 1728:2012	15. Back impact test - height of fall 210/38 mm ^o , - 10 times		no remarks	pass
6.26 EN 1728:2012	16. Arm impact test - height of fall 210/38 mm ^o , - 10 times		no remarks	pass
6.27.1 EN 1728:2012	17. Drop test (multiple seating) - drop height: not applicable for level L1, - 2 x 5 times			N/A
6.14 EN 1728:2012	18. Auxiliary writing surface static load test - force of 300 N, - 10 times			N/A
6.22 EN 1728:2012	19. Auxiliary writing surface durability test - force of 150 N - 10 000 cycles,			N/A

