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Certificate No. LA.01.060

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TEST REPORT No. BBC 20-122

21 05 2020 Vilnius

Determination of strength, durability and safety for *Chair S VIP E*

Customer PAPAPANAGIOTOU AVVEA DROMEAS SA

Address of customer Industrial Area of Serres, 62121 Serres, Greece

Application for test A 20-062-2, date 07 05 2020

Date of receive test object 07 05 2020, sampling was made by the Customer

Manufacturer name PAPAPANAGIOTOU AVVEA DROMEAS SA

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

Date of test 08 05 2020 (beginning) 20 05 2020 (end)

Conclusion

Chair S VIP E 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 S VIP E with armrests, soft seat and backrest. Supporting part is bent and welded of \emptyset 26 mm painted steel tubes. Base of seat is made of plywood. Base of backrest is made of metal frame and elastic material. Soft parts of seat and backrest are made of foam and are upholstered with tapestry. Height of soft part of seat is 35 mm, of backrest – 15 mm. Armrests are upholstered with leather. Bottom of seat have a plastic protector. Bolts and wood screws are used for chair assembling. There are plastic supports fixed at the bottom of chair.

External dimensions of chair are: width 550 mm, height 930 mm. Width of seat is 475 mm, depth 460 mm, height 490 mm. Distance between the armrests is 470 mm. Dimensions are for general information only.

Viešoji įstaiga "FURNITES"



Figure 1. Chair S VIP E

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. Lest methods for the determination of strength, and durability.

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

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 S VIP E 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 $(20\pm5)^{\circ}$ C.

Test apparatuses

Apparatus 111 P certificate No. 21, apparatus 113 P certificate No. 26, apparatus 115 P certificate No. 8, apparatus 194 MP certificate No. 27, apparatus 241 MP certificate No. 22, apparatus 645 MB certificate No. 1.

Table 1. Chair S VIP E test results

Clause,	Test and method, loads	Requirements	Test results	Pass/Fail,
Standard				N/A, N/T*
4 Safety, EN	N 16139:2013 including corrigendum	EN 16139:2013 including		
EN 16139:2013/AC:2013		corrigendum		
		EN 16139:2013/AC:2013		
4.1	General			
4.1	All parts of the seating with which	shall be designed to ensure that		
	the user comes into contact, during	physical injury and damage are		
	intended use	avoided, 4.1		
	This requirement is met when:			
	- 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		N/A
	- 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		N/A
	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		N/A
4.2	Shear and squeeze points			
4.2.1	Shear and squeeze points when setting up and folding	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.		N/A
	The edges of parts moving relative to each other and creating shear and squeeze points	shall be as specified in 4.1, 4.2.1	Viešoji	istaiga

Table 1. (continued)

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	shall be no shear and squeeze points		N/A	
	influence of powered mechanisms	created by parts of the seating, 4.2.2			
4.2.3	Shear and squeeze points during use	shall be no shear and squeeze points	no remarks	pass	
		created by forces applied during		•	
		normal use as well as during normal			
		movements and actions, 4.2.3			
4.3.3 Stabilit	y, EN 16139:2013 with corrigendum	EN 16139:2013 with corrigendum		-	
EN 16139:20		EN 16139:2013/AC:2013, 4.3.3, 5			
		The seating shall fulfil the			
		relevant requirements of			
		EN 1022:2018			
Annex B, B.	1 All seating other than loungers,				
table B.1, Lo	oads – All other seating,				
EN 1022:201 7.3.1,	Forwards overturning	the seating shall not overturn 131	not overturns	nacc	
7.3.1, EN 1022:2018	- force F ₁ of 600 N,	the seating shall not overturn, 4.3.1	not overturns	pass	
1022,2010	· ·				
722	- force F ₂ of 20 N	-		N T/4	
7.3.2, EN 1022:2018	Forwards overturning for chairs			N/A	
EN 1022:2018	with foot rests				
	- force F ₁ of 600 N,				
	- force F ₂ of 20 N				
7.3.3,	Corner stability			N/A	
EN 1022:2018	- force F ₁ of 300 N				
7.3.4,	Sideways overturning, all seating			N/A	
EN 1022:2018	without arms				
	- force F ₁ of 600 N,				
	- force F ₂ of 20 N,				
	- 1 cycle				
7.3.5,	Sideways overturning, all other		not overturns	pass	
EN 1022:2018	seating				
	- force F ₁ of 250 N,				
	- force F ₂ of 350 N,				
	- force F ₃ of 20 N				
7.3.6,	Rearwards overturning, all seating		not overturns	pass	
EN 1022:2018	with back rests				
	- force F ₁ of 600 N,				
	- height of loaded seat above the				
	floor of 415 mm,				
	- force F ₂ of 167 N				
6 Safety, stro	ength and durability, EN 16139:2013	EN 16139:2013 including			
including co	rrigendum EN 16139:2013/AC:2013,	corrigendum			
table 1, level	of test severity L1	EN 16139:2013/AC:2013, level of			
		test severity L1, 5			
6.4	1. Seat and back static load test	safety, strength and durability	no remarks	pass	
EN 1728:2012	- seat: force of 1600 N,	requirements are fulfilled when			
	- back: force of 560 N (min. force of	during and after testing:			
	410 N)	a) there are no fractures of any			
	- 10 times	member, joint or component;			
6.5	2. Seat front edge static load test	b) there are no loosening of joints	no remarks	pass	
EN 1728:2012	- force of 1300 N,	intended to be rigid;		_	
	- 10 times	c) no major structural element is			
6.6	3. Vertical static load on back	significantly deformed;	no remarks	pass	
EN 1728:2012	- seat load of 1300 N,	d) the seating fulfils its functions			
	- scat load of 1300 N, - force of 600 N,	after removal of the test loads, 5	108	RESP	
	- 10 times		1/5	1	
	10 times	<u> </u>	/// Viet	oji įstaiga	
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Table 1. (continued)

		able 1. (continued)		T
Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail, N/A, N/T*
6.8, 6.9 EN 1728:2012	4. Foot rest and leg rest static load test - force of 1300 N	safety, strength and durability requirements are fulfilled when during and after testing:		N/A
6.10 EN 1728:2012	- 10 times 5. Arm sideways static load test - force of 400 N - 10 times	a) there are no fractures of any member, joint or component;b) there are no loosening of joints intended to be rigid;	no remarks	pass
6.11 EN 1728:2012	6. Arm downwards static load test - force of 750 N, - 5 times	c) no major structural element is significantly deformed; d) the seating fulfils its functions after removal of the test loads, 5	no remarks	pass
6.13.1 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
6.15 EN 1728:2012	12. Leg forward static load test - seat load of 1000 N, - force of 500 N - 10 times		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/°, - 10 times		no remarks	pass
6.26 EN 1728:2012	16. Arm impact test - height of fall 210/38 mm/°, - 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 - 10 000 cycles, - force of 150 N		Viešoji is	N/A

Table 1. (end)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail, N/A, N/T*
	on for use EN 16139:2013 including In EN 16139:2013/AC:2013	EN 16139:2013 including corrigendum EN 16139:2013/AC:2013		
7	Information for use	shall be available in the language of the country 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) if the chair is fitted with adjusting mechanisms: instruction for operating the adjusting mechanisms; c) assembly instructions, where applicable; d) instruction for the care and maintenance of the chair; e) if the seating is fitted with castors: information on the choice of castors in relation to the floor surface; f) if the seating is fitted with adjustment mechanisms comprising an energy accumulator, an additional note is required pointing out that only instructed personnel may replace and maintain adjustment mechanisms containing energy accumulators	no remarks	pass

*N/A: not applicable for this product design, N/T: not tested

Head of furniture testing centre

Manvydas Mickus

Tests were carried

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The test results is relate only to the tested items.

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