



Four Design A/S Faaborgvej 14 DK-5854 Gislev

Order no.	645296-3-1	Gregersensvej		
		DK-2630 Taastrup		
Page	1 of 1	Tel. +45 72 20 20 00		
Appendices	2	Fax +45 72 20 20 19		
Initials	laha/prni/hbs	info@teknologisk.dk		
		www.teknologisk.dk		

Test Report

Material:	Model:	Four Cast 2	Line			
	Type:	Chair				
	Length:	550 mm	Width:	520 mm	Height:	835 mm
	Weight:	6,95 kg				
	Materials:	7 mm Plastic she Ø 11 mm metal				
Sampling:	The test material was sampled by the client and received at the Danish Technological Institute 03-12-2014.					
Method:	EN 16139	EN 1022:2005 Domestic furniture - Seating - Determination of stability. EN 16139:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating.				
		Clauses 4.1, 4.2.3, 4.3.3, 5, 6.1.1, 6.1.2, 6.1.3, 6.1.8, 6.1.9, 6.1.10, 6.1.12, 6.1.13, 6.1.14, 6.1.15.				10, 6.1.12,
	L1: General use: E.g. in office buildings, showrooms, public halls, function rooms, cafés, restaurants, canteens, banks, bars.			alls, function		
Period:	The testing	g was carried o	out from 21-	-12-2014 to 30	0-01-2015.	
Result:	16139:201 Loading a	ur Cast 2 Line 13. ccording to Te results appear	st severity I	L1.	n EN 1022:20	05 and EN

Storage:The test material will be destroyed after 1 month, unless otherwise agreed.Terms:The test has been performed according to the attached conditions, which are according to the guidelines
laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The
test report may only be extracted, if the laboratory has approved the extract

30-01-2015, Danish Technological Institute, Wood Technology, Taastrup

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Per A. Nielsen Co-reader

Lars Hansen Test responsible Y:\Workspace\NMO_Testing\Møbel\Four Design\645296\645296-3-1 Four Cast 2 Line EN 16139 L1 UK.docx

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Test of model: Four Cast 2 Line

Loading according to Test severity L1.

Test	Test Method	Cycles	Load	Result
4.1 General	EN 16139, 4.1			Passed
4.2.2 Shear and squeeze points under influence of powered mechanisms	EN 16139, 4.2.2			N/A
4.2.3 Shear and squeeze points during use	EN 16139, 4.2.3			Passed
4.3.2 Swivelling chairs	EN 1022			N/A
4.3.3 Non swivelling chairs	EN 1022			Passed
4.4 Rolling resistance of the unloaded chair	EN 16139, 4.4			N/A
5 Strength and durability requirements	EN 16139, 5			Passed
6.1.1 Seat static load and back static load test	EN 1728:2012, 6.4	10 10	Seat: 1600 N Back: 560 N	Passed
6.1.2 Seat front edge static load	EN 1728:2012, 6.5	10	Seat: 1300 N	Passed
6.1.3 Vertical load on back rests	EN 1728:2012, 6.6	10	Back: 600 N Seat: 1300 N	Passed
6.1.4 Foot rest static load test	EN 1728:2012, 6.8			N/A
6.1.4 Leg rest static load test	EN 1728:2012, 6.9			N/A
6.1.5 Arm rest sideways static load test	EN 1728:2012, 6.10	10	900 N	N/A
6.1.6 Arm rest downwards static load test	EN 1728:2012, 6.11	5	750 N	N/A
6.1.7 Vertical upwards static load on arm rests	EN 1728:2012, 6.13			N/A
6.1.8 Combined seat and back durability test	EN 1728:2012, 6.17	100000 100000	Seat: 1000 N Back: 300 N	Passed
6.1.9 Seat front edge durability test	EN 1728:2012, 6.18	50000	800 N	Passed
6.1.10 Arm rest durability test	EN 1728:2012, 6.20	30000	400 N	Passed
6.1.11 Foot rest durability test	EN 1728:2012, 6.21			N/A
6.1.12 Leg forward static load test	EN 1728:2012, 6.15	10	Edge: 500 N) (Seat: 1000 N)	Passed
6.1.13 Legs sideways static load test	EN 1728:2012, 6.16	10	Edge: 400 N) (Seat: 1000 N)	Passed
6.1.14 Seat impact test	EN 1728:2012, 6.24	10	240 mm	Passed
6.1.15 Back impact test	EN 1728:2012, 6.25	10	210 mm / 38°	Passed
6.1.16 Arm Impact Test	EN 1728:2012, 6.26	10	210 mm / 38°	N/A
6.1.17 Drop test (multiple seating)	EN 1728:2012, 6.27.1			N/A
6.1.18 Auxiliary writing surface static load test	EN 1728:2012, 6.14			N/A
6.1.19 Auxiliary writing surface durability test	EN 1728:2012, 6.22			N/A
7 Information for use	EN 16139, 7			N/A

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Test of model: Four Cast 2 Line

Photo



The general conditions pertaining to assignments accepted by Danish Technological Institute shall apply in full to the technical testing and calibration at Danish Technological Institute and to the completion of test reports and calibration certificates within the relevant field.

Danish Accreditation (DANAK)

DANAK was established in 1991 in pursuance of the Danish Act No. 394 of 13 June 1990 on the promotion of Trade and Industry.

The requirements to be met by accredited laboratories are laid down in the "Danish Agency for Trade and Industry's ("Erhvervsfremme Styrelsens") Statutory Order on accreditation of laboratories to perform testing etc. and GLP inspection. The statutory order refers to other documents, where the criteria for accreditation are specified further.

The standards DS/EN ISO/IEC 17025 "General requirements for the competence of testing and calibration laboratories" and DS/EN 45002 "General criteria for the assessment of testing laboratories" describe fundamental criteria for accreditation. DANAK uses guidance documents to clarify the requirements in the standards, where this is considered to be necessary. These will mainly be drawn up by the "European co-operation of Accreditation (EA)" or the "International Laboratory Accreditation Co-operation (ILAC)" with the purpose of obtaining uniform criteria for accreditation. In addition, DANAK draws up Technical Regulations with specific requirements for accreditation that are not contained in the standards.

In order for a laboratory to be accredited it is, among other things, required:

- that the laboratory and its personnel are not subject to any commercial, financial or other pressures, which might influence their technical judgement

- that the laboratory operates a documented quality system
- that the laboratory has at its disposal all items of equipment, facilities and premises required for correct performance of the service that it is accredited to perform
- that the laboratory management and personnel have technical competence and practical experience in performing the service that they are accredited to perform
- that the laboratory has procedures for traceability and uncertainty calculations
- that accredited testing or calibration is performed in accordance with fully validated and documented methods
- that the laboratory keeps records, which contain sufficient information to permit repetition of the accredited test or calibration
- that the laboratory is subject to surveillance by DANAK on a regular basis
- that the laboratory shall take out an insurance, which covers liability in connection with the performance of accredited services

Reports carrying DANAK's logo are used, when reporting accredited services and show that these have been performed in accordance with the rules for accreditation.





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Test Report

Material:	Model:	Four Cast 2 Line with armrests				
	Type:	Chair				
	Length:	550 mm	Width:	523 mm	Height:	851 mm
	Weight:	6,5 kg				
	Materials:	7 mm Plastic sh Ø 11 mm metal				
Sampling:	The test material was sampled by the client and received at the Danish Technological Institute 06-16-2015.					
Method:	EN 16139	EN 1022:2005 Domestic furniture - Seating - Determination of stability. EN 16139:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating.				
	Clauses 4.1, 4.2.3, 4.3.3, 5, 6.1.1, 6.1.2, 6.1.3, 6.1.5, 6.1.6, 6.1.8, 6.1.9, 6.1. 6.1.12, 6.1.13, 6.1.14, 6.1.15, 6.1.16.				8, 6.1.9, 6.1.10,	
	L1: General use: E.g. in office buildings, showrooms, public halls, function rooms, cafés, restaurants, canteens, banks, bars.			nalls, function		
Period:	The testing was carried out from 16-06-2015 to 23-07-2015.					
Result:	EN 1022:2 Loading a	ar Cast 2 Line 2005 and EN 1 ccording to Te results appear	16139:2013 est severity	L1.	equirements i	in

Storage:The test material will be destroyed after 1 month, unless otherwise agreed.Terms:The test has been performed according to the attached conditions, which are according to the guidelines
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23-07-2015, Danish Technological Institute, Wood Technology, Taastrup

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Per A. Nielsen Co-reader

 Lars Hansen
 Per A

 Test responsible
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