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Test report Furniture NS-EN 16139:2013

Client Foraform AS Postboks 4 6150 ØRSTA Norge		Product Fjell 4-star base with arm rest and wheels Product specification - tested object	
Client's reference Kåre Sætre		R-no. R16411	
Date 12.11.2018	Date of receipt, tested object 31.10.2018	Test completed date 09.11.2018	Rev. no. / Rev. date 0/



		Loading	To be tested	Result
Ref.	4. Safety requirements according to NS-EN 16139:2013			
4.1	Accessible corners are rounded or chamfered. The edges of the seat, back rest and arm rest are rounded or chamfered. All other are free from burrs and rounded or chamfered.		x	Passed
4.1	The edges of handles are rounded or chamfered.		x	Passed
4.1	Ends of hollow components are closed or capped.		x	Passed
4.1	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.		x	Passed
4.1	It shall not be possible for any load bearing part of the seating to come loose unintentionally		x	Passed
4.1	Lubricated parts shall be designed to protect users from lubricant stains.		x	Passed
4.2	With the exception of tipping seats there shall be no shear and squeeze points created by parts of the seating operated by powered mechanisms, e.g. springs and gas lifts.		x	Passed
4.2	There shall be no shear and squeeze points created by forces applied during normal use as well as during normal movements and actions.		x	Passed

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Stability according to NS-EN 1022:2005 Non swivelling chairs				
4.3	Forward	NS-EN 1022:2005 6.2	600N/20N	
4.3	Forward leg rest	NS-EN 1022:2005 6.3	600N/20N	
4.3	Sideways without arm rests	NS-EN 1022:2005 6.4	600N/20N	
4.3	Sideways with arm rests	NS-EN 1022:2005 6.5	250N/20N	
4.3	Backwards	NS-EN 1022:2005 6.6	600N/80N	
4.3	Backwards, variable geometry	NS-EN 1022:2005 7	1100N	
Stability according to NS-EN 1335-3:2009 Swivelling chairs				
4.3	Forward seat corner	NS-EN 1335-3:2009 7.1.1	270N	
4.3	Forward	NS-EN 1335-3:2009 7.1.2	600N/20N	x Passed
4.3	Forward leg rest	NS-EN 1335-3:2009 7.1.3	1100N/20N	
4.3	Sideways without arm rests	NS-EN 1335-3:2009 7.1.4	600N/20N	
4.3	Sideways with arm rests	NS-EN 1335-3:2009 7.1.5	250N/350N/20N	x Passed
4.3	Backwards, no adjustable back	NS-EN 1335-3:2009 7.1.6	600N/192N	x Passed
4.3	Backwards, adjustable back	NS-EN 1335-3:2009 7.1.7	1300N	
4.4 Rolling resistance of the unloaded chair NS-EN 1335-3:2009				
	Rolling resistance		≥12N	x Passed
	All castors are of the same type			x Passed
5. Strength and durability NS-EN 1728:2012				
6.4	Seat and back static load		1600N, 10 times, 560N, 10 times	x Passed
6.5	Seat front edge static load		1300N, 10 times	x Passed
6.6	Vertical static load on back		600N with 1300N in seat, 10 times	x Passed
6.8, 6.9	Foot rest and leg rest static load		1300N, 10 times	
6.10	Arm sideways static load		400N, 10 times	x Passed
6.11	Arm downwards static load		750N, 10 times	x Passed
6.13.1, 2	Vertical upwards static load on arm rests		Seat 250N, 10 times	
6.17	Seat and back durability test		Seat:1000N, Back: 300N, 100 000 cycles	x Passed
6.18	Seat front edge durability test		800N, 50 000 cycles	x Passed
6.20	Arm durability test		400N,30 000 cycles	x Passed
6.21	Foot rest durability test		1000N, 50 000 cycles	



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6.15	Leg forward static load	500N with seat load 1000N, 10 times	x	Passed
6.16	Leg sideways static load	400N with seat load 1000N, 10 times	x	Passed
6.24	Seat impact test	Drop height 240 mm, 10 times	x	Passed
6.25	Back impact test	Height of fall 210 mm, 38°, 10 times	x	Passed
6.26	Arm impact test	Height of fall 210 mm, 38°, 10 times	x	Passed
6.14	Auxilliary writing surface static load	300N, 10 times		
6.22	Auxilliary writing surface durability test	150N, 10 000 cycles		
7 Information for use				
7a - 7f	Requirements according to NS-EN 16139:2013		x	Passed

Safety, strength and durability requirements are fulfilled when:

- a) There are no fractures of any member, joint or component
- b) There are no loosening of joints
- c) No major structural element is significantly deformed
- d) The chair fulfils its function after removal of the test loads

Deviation from the test standards:

Comments:

Summary		
	The product is not approved according to the existing standards and requirements.	The product is approved according to the requirements for non domestic furniture, level 1 in NS-EN 16139:2013.
		X

 Bård Vestre
 Manager