











Prüfbericht-Nr.: <i>Test Report No.:</i>	21210223_001	Auftrags-Nr.: <i>Order No.:</i>	3094617	Seite 1 von 12 Page 1 of 12	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2013-11-06		
Auftraggeber: <i>Client:</i>	Scandinavian Business Seating AS; 7374 Røros-Norway				
Prüfgegenstand: <i>Test item:</i>	visitors chairs for contract use				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	modell range "RBM Noor" 6060, 6065, 6070, 6075, 6080, 6085				
Auftrags-Inhalt: <i>Order content:</i>	Mechanical safety test				
Prüfgrundlage: <i>Test specification:</i>	DIN EN 16139: 2013-05 (Möbel – Festigkeit, Dauerhaltbarkeit und Sicherheit – Anforderungen an Sitzmöbel für den Nicht-Wohnbereich) (Furniture – Strength, durability and safety – Requirements for non-domestic seating)				
Wareneingangsdatum: <i>Date of receipt:</i>	2013-07-29, 2013-10-18				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000051105-001-006, A000045454-001-003				
Prüfzeitraum: <i>Testing period:</i>	2013-11-07 – 2013-12-16				
Ort der Prüfung: <i>Place of testing:</i>	Furniture Testing Laboratory Dresden				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland LGA Products GmbH				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
2013-12-17	André Paul (SV)		2013-12-17	Andreas Möschner (SV)	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other: Tests according to DIN EN 16139 Level 1 Currently neither a safeguard clause procedure has been invoked nor is an increase in accidents known for this / these product(s). The requirements of the ZEK decision regarding 01.4-08 PAHs were considered.					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</p> <p>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>					
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

Produktbeschreibung
Product description

Visitors chairs model range "RBM Noor", optional seat shell made of plastic or plywood, optional with seat or seat and backrest upholstery, sledge based chairs optional with armrest, swivel chairs optional with armrests, quadraped chairs (wooden legs) without armrests

- sledge based chairs: stackable, frame made of different bended and coated steel Ø 12,0 mm, connections welded, plastic cover made of PP on seat underside plugged on frame, frame with plastic glides plugged on welded steel plates, model 6060 with plastic seat shell, model 6065 with veneer seat shell
- quadraped chairs (wooden legs): seat support made of aluminium die cast, wooden legs (solid ash Ø 30 mm) screwed on seat support with each one M8 x 30 mm allan head screws in insert with thread made of aluminium die cast, plastic glides plugged into borehole on the end of the legs, model 6080 with plastic seat shell, model 6085 with veneer seat shell
- swivel chairs: seat height adjustable by means of gas spring from Stabilus, denotation of gas spring STAB-O-MAT DIN 4550-4 D 024 091 084 13D, fixed seat support made of aluminium die cast without tilt mechanism, model 6070 with plastic seat shell, model 6075 with veneer seat shell, base made of aluminium die cast, 5 break unloaded twin wheel swivel castors optional type "W" or "H", with a diameter of 65 mm, marking of castors: none, castor manufacturer: JENP YOU, measurement for star-base acc. to DIN EN 1335-1: max. offset of the underframe "s": 373.5 mm, stability dimension "t": 239.5 mm
- armrests made of different bended and coated steel Ø 12,0 mm and flat steel 5.0 mm, connections welded, armrest pad made of PA6 screwed on flat steel, armrests screwed on chair frame / seat bearer with each two M6 x 10 mm allan head screws
- seat shell optional made of plastic (7,0 mm PP) or 6.6 mm plywood (beech, 6 layers, from Fritz Becker), seat shell screwed with frame / seat support with 4 screws: Ø 6.0 x 14 mm (torx round head) into plastic seat shell / with 4 screws M 6 x 16 mm (torx round head) in threaded sleeves inside veneer

Fig. 1	Fig. 2	Fig. 3	Fig. 4
			
Fig. 5	Fig. 6	Fig. 7, 8, 9	Fig. 10
			

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General information			
The test report contents mechanical safety requirements based on DIN EN 16139 as well as additional safety-related tests and requirements towards the state of the art. The tests acc. to the standard DIN EN 16139 were divided in safety tests and fitness for use tests, a standard-independent numbering system was used. The content of the test basics was shortened. For details be referred to the original documents.			
1	Safety design requirements acc. to DIN EN 16139 cl. 4		
1.1	General acc. to DIN EN 16139 cl. 4.1		
	<ul style="list-style-type: none"> - accessible corners rounded or chamfered - edges of the seat, back rest and arm rests which are in contact with the user when sitting, rounded or chamfered - edges of handles rounded or chamfered in the direction of the force - all other edges free from burrs and rounded or chamfered - ends of hollow components closed or capped - design of movable and adjustable parts that injuries and inadvertent operation are avoided - no load bearing part of the seating shall have the possibility to come loose unintentionally - no possibility for lubricant stains during normal use 		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
1.2	Shear and squeeze points acc. to DIN EN 16139 cl. 4.2		
	Shear and squeeze points when setting up and folding		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	Shear and squeeze points under influence of powered mechanism		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Shear and squeeze points during use		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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2	Stability acc. to DIN EN 16139 cl. 4.3		
	The stability requirements are fulfilled when the seating does not overturn after the static and dynamic safety tests (clause 4).		
2.1	Stability - swivelling chairs DIN EN 16139 cl. 4.3.2		
	Forward overturning in median plane vertical load: 60 kg, horizontal force: ≥ 20 N	till 67 N	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Front edge overturning ≥ 27 kg	> 30 kg	
	Sideways overturning without arms vertical load: 60 kg, horizontal force: ≥ 20 N	> 100 N	
	Sideways overturning with arms vertical load: 25/35 kg, horizontal force: ≥ 20 N	till 58 N	
	Rearwards overturning without back rest inclination vertical load: 60 kg, horizontal force: ≥ 192 N	till 213 N	
	Rearwards overturning with back rest inclination ≥ 13 discs	N/A	
	Stability of footrest vertical load: 110 kg, horizontal force: ≥ 20 N	N/A	
2.2	Stability - non-swivelling chairs DIN EN 16139 cl. 4.3.3		
	Forward overturning vertical load: 60 kg, horizontal force: ≥ 20 N	sledge base / quadrupped till 29 N / till 78 N	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Stability of footrest vertical load: 60 kg, horizontal force: ≥ 20 N	N/A / N/A	
	Sideways overturning without arms vertical load: 60 kg, horizontal force: ≥ 20 N	> 100 N / till 104 N	
	Sideways overturning with arms vertical load: 25/35 kg, horizontal force: ≥ 20 N	> 60 N / N/A	
	Rearwards overturning without back rest inclination vertikal load: 60 kg, horizontal force if $H \geq 720$ mm: $F = 80$ N horizontal force if $H < 720$ mm: $F = 0,2857 (1000-H)$	seat height 439 mm / 439 mm, requirement 160 N / 160 N till 211 N / till 192 N	
	Rearwards overturning with back rest inclination ≥ 11 discs	N/A / N/A	
	Stability for rocking chairs ≥ 8 discs	N/A / N/A	

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3	Rolling resistance of unloaded chair acc. to DIN EN 16139 cl. 4.4		
	- all castors identical in construction - rolling resistance \geq 12 N	type "W": 13 N type "H": 20 N	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4	Static and dynamic strength tests acc. to DIN EN 16139 cl. 4.5, cl. 5, cl. 6		
	The requirements are fulfilled when during and after the following tests: - there are no fractures of any member, joint or component, - there are no loosening of joints intended to be rigid, - no major structural element is significantly deformed, - the chair fulfils its functions after removal of the test loads		
4.1	Seat and back static load test DIN EN 1728: 2012 cl. 6.4		
	10 cycles, calculation of actual loads as a function of the backrest inclination Level 1: Seat: 1600 N Back: 560 N (min. 410 N) Level 2: Seat: 2000 N Back: 700 N	Level 1 Models 6060, 6065, 6070, 6075, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.2	Seat front edge static load test DIN EN 1728: 2012 cl. 6.5		
	10 cycles Level 1: 1300 N Level 2: 1600 N	Level 1 Models 6060, 6065, 6070, 6075, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.3	Foot rest and leg rest static load test DIN EN 1728: 2012 cl. 6.8, cl. 6.9		
	10 cycles Level 1: 1300 N Level 2: 1600 N		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
4.4	Arm downwards static load test DIN EN 1728 cl. 6.11		
	5 cycles Level 1: 750 N Level 2: 900 N	Level 1 Models 6060, 6065, 6070, 6075	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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4.5	Vertical upwards static load on arm rests DIN EN 1728: 2012 cl. 6.13		
	10 cycles Level 1: 250 N or stack with max. 8 chairs of max. 25 kg Level 2: 1200 N	Level 1 Models 6060, 6065, 6070, 6075	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.6	Seat and back durability test DIN EN 1728: 2012 cl. 6.17		
	Seat: 1000 N, Back: 300 N, calculation of actual loads as a function of the backrest inclination Level 1: 100.000 cycles Level 2: 200.000 cycles	Level 1 Models 6060, 6065, 6070, 6075, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.7	Seat front edge durability test DIN EN 1728: 2012 cl. 6.18		
	Force: 800 N Level 1: 50.000 cycles Level 2: 100.000 cycles	Level 1 Models 6060, 6065, 6070, 6075, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.8	Arm durability test DIN EN 1728: 2012 cl. 6.20		
	Force: 400 N Level 1: 30.000 cycles Level 2: 60.000 cycles	Level 1 Models 6060, 6065, 6070, 6075	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.9	Leg forward static load test DIN EN 1728: 2012 cl. 6.15		
	10 cycles Level 1: Force: 500 N Seat load: 1000 N Level 2: Force: 620 N Seat load: 1800 N	Level 1 Models 6060, 6065, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.10	Leg sideways static load test DIN EN 1728: 2012 cl. 6.16		
	10 cycles Level 1: Force: 400 N Seat load: 1000 N Level 2: Force: 760 N Seat load: 1800 N	Level 1 Models 6060, 6065, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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4.11	Seat impact test DIN EN 1728: 2012 cl. 6.24		
	10 cycles Level 1: Drop height: 240 mm Level 2: Drop height: 300 mm	Level 1 Models 6060, 6065, 6070, 6075, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
5	Tilt-Fall-Test DIN 68878: 2011-11 cl. 6.3.2		
	For quadruped and chairs with similar overturning behaviour Test performance: - height of lifted legs: 30 mm - test frequency: about 10 cycles / minute - seat load for front / rear tilting: 85 kg - seat load for sideways left and right: 42.5 kg - force application point above loaded seat: 300 mm - cycles per test clause: 10.000 Requirement: - no fractures or loosen connections - the function shall be unimpaired after testing	each side 10.000 cycles Models 6060, 6065, 6080, 6085	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6	Requirements for chairs with self-supporting gas spring		
6.1	Safety class of gas spring tube DIN 4550 cl. 5		
	Maximum permissible distance "u" between seat front edge and the center of the gas spring in accordance with safety class may not be exceeded.	Models 6070, 6075 safety class 4	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.2	General safety requirements DIN 4550: 2004 cl. 6.1		
	Self-supporting gas springs must have a tripping device on the face side and have to be made of one part in the load bearing area.	Models 6070, 6075	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.3	Gas spring taper DIN 4550 cl. 6.2, 6.3		
	Overlapping minimum 80 % one-piece taper radius minimum 1 mm at the bottom edge taper with smooth surface	Models 6070, 6075	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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6.4	Durability test for self-supporting energized devices DIN 4550 cl. 7.2		
	Test certificate for durability test	"TÜV Rheinland LGA bauartgeprüft" no. 62723	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.5	Marking of gas spring DIN 4550 cl. 9		
	Manufacturer type designation classification date of production (week / year)	STABILUS STAB-O-MAT "D" 024 091 DIN 4550-4 084 13 D	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.6	Safety advice on the chair DIN 4550 cl. 9		
	Conspicuously warning advice near the gas spring in German with the following content: "Achtung! Austausch und Arbeiten im Bereich des Sitzhöhenverstellelementes nur durch eingewiesenes Personal." We recommend the safety advice also in the language of the country in which it will be delivered to the end user.	The label of the swivel chairs will be supplemented in series production with the warning advice minimum in german alnquage (identical procedure on every GS-certificated chair with gas spring)	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.7	Self assembly EK 5 / AK 3: 01-04		
	The decision of EK 5 / AK 3: 01-04 shall be considered.		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
7	Fitness for use tests acc. to DIN EN 16139 cl. 6		
7.1	Vertical static load on back DIN EN 1728: 2012 cl. 6.6		
	10 cycles Level 1: Force: 600 N Seat load: 1300 N Level 2: Force: 900 N Seat load: 1800 N	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>
7.2	Arm sideways static load test DIN EN 1728: 2012 cl. 6.10		
	10 cycles Level 1: 400 N Level 2: 900 N	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>

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7.3	Footrest durability test DIN EN 1728: 2012 cl. 6.21		
	Force: 1000 N Level 1: 50.000 cycles Level 2: 100.000 cycles	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>
7.4	Back impact test DIN EN 1728: 2012 cl. 6.25		
	10 cycles Level 1: Height of fall: 210 mm / 38 ° Level 2: Height of fall: 330 mm / 48 °	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>
7.5	Arm impact test DIN EN 1728: 2012 cl. 6.26		
	10 cycles Level 1: Height of fall: 210 mm / 38 ° Level 2: Height of fall: 330 mm / 48 °	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>
7.6	Drop test (multiple seating) DIN EN 1728: 2012 cl. 6.27.1		
	2 x 5 cycles Level 1: N/A Level 2: Drop height: 450 mm	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>
7.7	Auxiliary writing surface static load test DIN EN 1728: 2012 cl. 6.14		
	10 cycles Level 1: 300 N Level 2: 300 N	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>
7.8	Auxiliary writing surface durability test DIN EN 1728: 2012 cl. 6.22		
	Force: 150 N Level 1: 10.000 cycles Level 2: 20.000 cycles	no safety requirement	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input checked="" type="checkbox"/>

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8	Dimensional requirements for office visitor chairs acc. to DIN EN 16139 Annex C		
	Seat height: - fixed seat height: 400 - 500 mm - adjustable seat height: minimum range 420 - 480 mm	swivel / sledge / quadrupped N/A / 439 mm / 439 mm 356 - 494 mm	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Seat depth: between 380 - 470 mm	veneer / plastic seat shell 436 mm / 435 mm (in "S")	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Seat width: minimum 400 mm	veneer / plastic seat shell 425 mm / 425 mm (in "S")	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Clear width between arm rests: minimum 460 mm	swivel / sledge / quadrupped 465 mm / 465 mm / N/A	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
9	Information for use		
	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: - information regarding the intended use - if the chair is fitted with adjusting mechanisms: instruction for operating the adjusting mechanisms - assembly instructions, where applicable - Instruction for the care and maintenance of the chair - if the seating is fitted with castors: information on the choice of castors in relation to the floor surface - 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	information for use with all relevant informations available	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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10	Materials		
	<p>Materials and its combinations shall not be toxic, among others the following certificates are necessary:</p> <ul style="list-style-type: none"> - test certificate of harmful substances for wooden materials - test certificates of harmful substances for upholstery and cover materials - risk analysis for Polycyclic Aromatic Hydrocarbons (PAH) according to the valid ZEK requirement 	<p>Plywood: E1 formaldehyde test report no. Fraunhofer WKI QA-2013-1082</p> <p>Fabrics: EU-Ecolabel DK/16/024 from Kvadrat</p> <p>A risk analysis and evaluation regarding PAH's (polycyclic aromatic hydrocarbons) according to the actual requirement ZEK 01.4-08 was carried out. The accessibility and the selection of the materials show no suspicion concerning a PAH-risk.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
11	Marking towards ProdSG section 2 § 6		
	Durable marking of product with name and contact address of manufacturer or importer and the product designation	see picture 10 on page 3	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>