

**Test report** 16-9316

**Article:** Stack KS+  
**Test requested by:** Jan Jismyr  
Materia AB  
Tranås Sweden



**Tests are carried out according to standard:** EN 1729-2:2012

**Discrepancies:** None

**Result and observations:** The sample submitted for test fulfils the requirements in above mentioned standards.

**Measurement:** Detailed information about measurement uncertainty is provided on request by Kinnarps Test and Verification Center.

**Report:** This report relates to sample submitted for test and no other. The report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Kinnarp 22<sup>nd</sup> of September 2016

Handwritten signature of Daniel Landberg in black ink.

Daniel Landberg  
(Approved by)

Handwritten signature of Susanne Norling in black ink.

Susanne Norling  
(Tested by)

## Item description

### Date of

- manufacture: 160821
- arrival: 160901
- test: 160905 - 160922

### Materials, construction

- Seat and backrest:** Plastic
- Armrest:** Ø12mm Steel
- Under frame:** Ø 19mm Steel tube

### Dimensions (mm)

- Total width:** 520
- Total depth:** 500
- Total height:** 770
- Weight (kg):** 5,7kg

### Test conditions

- Laboratory atmosphere:** (20 ± 5)° C                      Within limits during test

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Popliteal range (without shoes)	200-250	250-280	280-315	315-355	355-405	405-435	435-485	485+
Stature range (without shoes)	800-950	930-1160	1080-1210	1190-1420	1330-1590	1460-1765	1590-1880	1740-2070

Test and method	Requirements	Test results	Pass/Fail or N/A
<p><b>SAFETY</b>                      <b>EN 1729-2:2012</b>      <b>4</b></p> <p>Edges of seat, back and arm rests, which are in contact with the user when sitting in the chair shall be rounded                      min</p> <p>All other edges and corners with which the user may come into contact with normal use shall be</p> <p>Distance between accessible moving parts ( with the exception of setting up and folding)</p> <p>Adjustment controls</p> <p>Open ends and feet of tubular components</p> <p>Parts shall not be detachable without use of an appropriate tool</p> <p>Parts which are lubricated shall be covered</p>	<p>2 mm radius</p> <p>smooth, rounded or chamfered and shall have no burrs</p> <p>&lt; 8 mm or ≥ 25 mm</p> <p>shall not operate inadvertently or accidentally</p> <p>shall be capped or otherwise closed</p>	<p><i>No remarks</i></p> <p><i>No remarks</i></p> <p>-</p> <p>-</p> <p><i>No remarks</i></p> <p><i>No remarks</i></p> <p>-</p>	<p><b>Pass</b></p> <p><b>Pass</b></p> <p><b>N/A</b></p> <p><b>N/A</b></p> <p><b>Pass</b></p> <p><b>Pass</b></p> <p><b>N/A</b></p>
<p><b>STABILITY</b>                      <b>EN 1729-2:2012</b>      5.2</p> <p>Forward stability of chairs                      5.2.2 Seat load 600N Horizontal force 20N</p> <p>Sideways stability of chairs without armrests                      5.2.3.1 Seat load 600N Horizontal force 20N</p> <p>Sideways stability of chairs with armrests                      5.2.3.2 Seat load 250N, armrest load 350 N Horizontal force 20N (2012)</p> <p>Rearwards stability of chair                      5.2.4 Seat load 600N Horizontal force 180 N</p> <p>Rearwards stability of chairs with back rest inclination                      5.2.5 13 pcs 10 kg discs on seat nearest to back rest (2012)</p> <p>Stability of chairs placed on table tops                      B 1 Apply an impact of 2Nm (31 mm drop height) at a height 400 mm from table surface perpendicular to backrest repeat 3 times</p>	<p>According to chair size mark 6</p> <p>No overturning</p> <p>No overturning</p> <p>No overturning</p> <p>No overturning</p> <p>No overturning</p> <p>Annex B (informative) No requirement</p> <p>The chair shall not fall to floor</p>	<p><i>80N</i></p> <p>-</p> <p><i>70N</i></p> <p><i>198N</i></p> <p>-</p> <p>-</p>	<p><b>Pass</b></p> <p><b>N/A</b></p> <p><b>Pass</b></p> <p><b>Pass</b></p> <p><b>N/A</b></p> <p><b>N/A</b></p>

Test and method	Requirements	Test results	Pass/Fail or N/A
<b>STRENGTH AND DURABILITY</b> <b>EN 1729-2:2012</b>	<b>5.3</b> No damage, no loss of functions, no visible fracture or breakage		
Seat static load of chair Load 2000N                      10 c                      5.3.2 Back static load of chair Load max 700N		<i>No remarks</i>	<b>Pass</b>
Seat durability of chair Load 1250N                      100 000 c                      5.3.3 Back durability of chair Load 300N		<i>No remarks</i>	<b>Pass</b>
Seat front edge durability Load 800N                      50 000 c                      5.3.4		<i>No remarks</i>	<b>Pass</b>
Sideway static load of chair Vertical load 1600N Horizontal load max 500N                      10 c                      5.3.5		<i>No remarks</i>	<b>Pass</b>
Forward static load of chair Vertical load 1600N Horizontal load max 600N                      10 c                      5.3.6		<i>No remarks</i>	<b>Pass</b>
Seat impact of chair Drop height 300 mm                      10 c                      5.3.7		<i>No remarks</i>	<b>Pass</b>
Back impact of chair Fall height 620 mm                      10c                      5.3.8		<i>No remarks</i>	<b>Pass</b>
Static load of foot rail Vertical load 1300N                      10 c                      5.3.9		-	<b>N/A</b>
Drop test Front leg and rear leg drop height 600 mm                      5 c                      5.3.10		<i>No remarks</i>	<b>Pass</b>
Foot rail durability Vertical load 1000 N                      50 000c                      5.3.11		-	<b>N/A</b>
Armrest static load Vertical load 600N Overload Vertical load 900N                      10c                      5.3.12		<i>No remarks</i>	<b>Pass</b>
<b>Remarks, comments;</b>			

*End of report*