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|--|---|---|-----------------------------|--|---|
| <b>Prüfbericht-Nr.:</b><br><i>Test Report No.:</i>   | <b>21271853_001</b>   | <b>Auftrags-Nr.:</b><br><i>Order No.:</i>   | <b>3193410_090</b>          | Seite 1 von 8<br>Page 1 of 8                     |   |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client Reference No.:</i>  | Mr. Mensinga / EMG 3009   | <b>Auftragsdatum:</b><br><i>Order date:</i>   | 24.08.2016                  |  |   |
| <b>Auftraggeber:</b><br><i>Client:</i>   | Scandinavian Business Seating B.V.<br>Schoenerweg 4, 8402 PJ Zwolle, Niederlande  |   |                             |  |   |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>  | Drehstuhl<br>Swivel chair   |   |                             |  |   |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type No.:</i>   | AXIA 2.3 black (Produktnummer: 474989)  |   |                             |  |   |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>   | Messung des Ableitwiderstandes zu einem erdungsfähigen Punkt<br>Measurement of the leakage resistance to a groundable point   |   |                             |  |   |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>  | EN 61340-5-1<br>EN 61340-5-1:2007<br>EN 61340-2-3:2000 Prüfverfahren zur Bestimmung des Widerstandes und des spezifischen Widerstandes von festen planen Werkstoffen, die zur Vermeidung elektrostatischer Aufladung verwendet werden |   |                             |  |   |
| <b>Wareneingangsdatum:</b><br><i>Date of receipt:</i>  | 16.05.2017  |  <p><b>3193410</b></p> |                             |  |   |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample No.:</i>  | A000162633-001  |   |                             |  |   |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>   | 18.05.2017 – 19.05.2017   |   |                             |  |   |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>  | Safety Labor Nürnberg /<br>Nuremberg  |   |                             |  |   |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>   | TÜV Rheinland LGA Products<br>GmbH  |   |                             |  |   |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>  | Pass  |   |                             |  |   |
| <b>geprüft von / tested by:</b>  |   | <b>kontrolliert von / reviewed by:</b>  |                             |  |   |
| 19.05.2017 B.Eng (FH) A.Gholami / SV   |   | 19.05.2017 Dipl.-Ing. K. Stenzhorn / TK   |                             |  |   |
| <b>Datum</b><br><i>Date</i>  | <b>Name / Stellung</b><br><i>Name / Position</i>  | <b>Unterschrift</b><br><i>Signature</i>   | <b>Datum</b><br><i>Date</i> | <b>Name / Stellung</b><br><i>Name / Position</i> | <b>Unterschrift</b><br><i>Signature</i> |
| <b>Sonstiges / Other:</b>  |   | Detaillierte Informationen siehe folgende Seiten<br>See the following pages for detailed information      |                             |  |   |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>   |   | Prüfmuster vollständig und unbeschädigt<br><i>Test item complete and undamaged</i>                        |                             |  |   |
| <p>* Legende: 1 = sehr gut    2 = gut    3 = befriedigend    4 = ausreichend    5 = mangelhaft<br/> P(ass) = entspricht o.g. Prüfgrundlage(n)    F(all) = 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<br/> P(ass) = passed a.m. test specification(s)    F(all) = failed a.m. test specification(s)    N/A = not applicable    N/T = not tested</p> |   |   |                             |  |   |
| <p><b>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.</b><br/> <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>                        |   |   |                             |  |   |

**Prüfbericht-Nr.: 21271853\_001**  
Test Report No.:

Seite 2 von 8  
Page 2 of 8

**Liste der verwendeten Prüfmittel**  
**List of used test equipment**

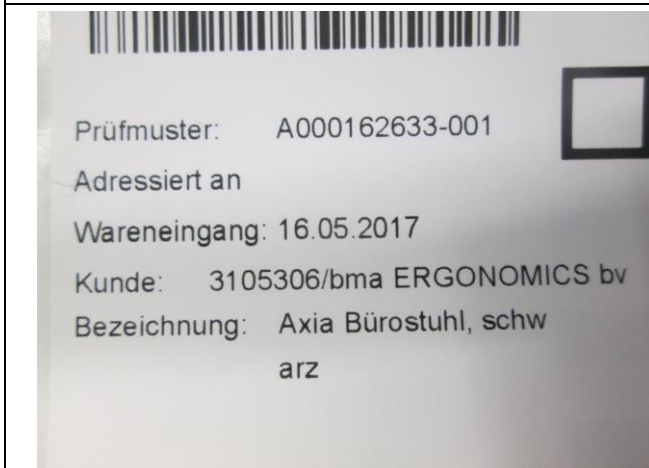
| <b>Prüfmittel</b><br><i>Test equipment</i>       | <b>Prüfmittel-Nr. / ID-Nr.</b><br><i>Equipment No. / ID-No.</i> | <b>Nächste Kalibrierung</b><br><i>Next calibration</i> |
|--|---|--|
| Hochohmmessgerät / <i>High-Resistance Tester</i> | ID 08748  | 08/18  |
| Klimamessgerät / <i>Climate measuring device</i> | ID 08329  | 12/19  |
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Prüfbericht-Nr.: 21271853\_001  
Test Report No.:

Seite 3 von 8  
Page 3 of 8

**Produktbeschreibung**  
**Product description**

|   |  |  |
|---|--|--|
| 1 | <b>Produktdetails</b><br><i>Product details</i>                | <b>Drehstuhl</b><br><i>Swivel chair</i>    |
| 2 | <b>Maße / Gewicht</b><br><i>Dimensions / Weight</i>            | N/A  |
| 3 | <b>Bedienelemente</b><br><i>Operating elements</i>             | <b>Siehe Bilder</b><br><i>See pictures</i> |
| 4 | <b>Ausstattung / Zubehör</b><br><i>Equipment / Accessories</i> | <b>Siehe Bilder</b><br><i>See pictures</i> |
| 5 | <b>Verwendete Materialien</b><br><i>Used materials</i>         | <b>Siehe Bilder</b><br><i>See pictures</i> |
| 6 | <b>Sonstiges</b><br><i>Other</i>                               | N/A  |



|   |   |                                    |                                     |
|---|---|------------------------------------|-------------------------------------|
| <b>Prüfbericht-Nr.: 21271853_001</b><br><i>Test Report No.:</i> |   |                                    | Seite 4 von 8<br><i>Page 4 of 8</i> |
| Absatz  | <b>EN 61340-5-1</b>                                     | Messergebnisse - Bemerkungen       | Bewertung                           |
| <i>Clause</i>   | <i>Anforderungen - Prüfungen / Requirements - Tests</i> | <i>Measuring results - Remarks</i> | <i>Evaluation</i>                   |

**Anmerkung / Note:**

Dieser Prüfbericht bezieht sich nur auf die geprüften Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

*This test report relates to the above mentioned test sample. Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

Sollte der Inhalt des Berichtes einer Auslegung bedürfen, so ist der deutsche Text maßgebend.  
*Should the content of the test report need any interpretation the German text shall be leading.*

Angaben zur Messunsicherheit sind im Prüflabor vorhanden und können auf Kundenwunsch bereitgestellt werden.

*Detailed information regarding measurement uncertainty is available in the test lab and could be shown on customer request.*

Dieser Bericht alleine – ohne zugehöriges GS-Zertifikat – berechtigt nicht zur Verwendung des Zeichens "GS-geprüfte Sicherheit".

*This test report – unless appended to the accompanying GS-Certificate – does not entitle to use the mark "GS-geprüfte Sicherheit".*

**Hinweise / Remarks:**

Nach der EN 61340-5-1 werden Sitzgelegenheiten nach der EN 61340-2-3 geprüft. Die Anforderungen der EN 61340-2-3 und die Prüfergebnisse wurden ab Seite 5 tabellarisch aufgelistet.  
*According to EN 61340-5-1 sitting accommodations shall be tested according to EN 61340-2-3. The requirements of EN 61340-2-3 and the test results are listed tabularly starting from page 5.*

| Prüfbericht-Nr.: 21271853_001<br>Test Report No.: |  |   |                         |
|---|--|---|-------------------------|
| Absatz<br>Clause                                  | EN 61340-5-1<br>Anforderungen - Prüfungen / Requirements - Tests   | Messergebnisse - Bemerkungen<br>Measuring results - Remarks | Bewertung<br>Evaluation |
| 4   | <b>CONDITIONING AND TEST CLIMATES</b>  |   | —                       |
|   | Measurements performed under controlled conditions   |   | P                       |
| 5   | <b>DETERMINATION OF MEASUREMENT METHOD</b>   |   | —                       |
|   | If the range of the volume resistivity or surface resistance for the material is known, the corresponding section is used, in which the relevant standards are listed or the procedures are described    | $R \leq 1 \times 10^{10} \Omega$                            | P                       |
|   | for a material with initially unknown resistivity, measurements are to perform using procedures for conductive materials in accordance with section 6  |   | N/A                     |
| 6   | <b>MEASURING THE RESISTANCE OF SOLID CONDUCTIVE MATERIALS</b>  |   | —                       |
|   | The resistance of solid conductive materials (non-metallic) must be measured in accordance with ISO 3915 for plastics or ISO 1853 for elastomers   |   | N/A                     |
| 7   | <b>MEASURING THE RESISTANCE OF SOLID ELECTRICAL INSULATIONS</b>  |   | —                       |
|   | The resistance of solid electrical insulations must be measured in accordance with IEC 60093, IEC 60167 for plastics or ISO 2951 for elastomers  |   | N/A                     |
| 8   | <b>MEASURING THE RESISTANCE OF ELECTRICALLY DISSIPATIVE MATERIALS</b>  |   | —                       |
| 8.1   | Measuring instrument   |   | —                       |
|   | The instrument may consist of a voltage source and an ammeter or an integrated device (resistance-tester)  | High-Resistance Tester                                      | P                       |
|   | If an resistance-tester is used without current detecting setup for resistivity measurements, an additional power meter is necessary to permit at least readings in the range of 10 pA to 10 mA $\pm$ 5% |   | N/A                     |
|   | The open circuit voltage must be 100 V $\pm$ 5% for measured values of $1 \times 10^6 \Omega$ and higher, and 10 V $\pm$ 5% for measured values smaller than $1 \times 10^6 \Omega$                      |   | P                       |
|   | Readings must be possible at least from $1 \times 10^3 \Omega$ to $1 \times 10^{13} \Omega$  |   | P                       |
| 8.2   | Electrode assembly   |   | —                       |
|   | The electrodes must be made of a material that allows good contact with the surface of the test sample and causes no appreciable error by the electrode resistance or contamination of the test sample.  |   | P                       |
| 8.2.1   | Electrode assembly for measurement of the surface resistivity  |   | N/A                     |
| 8.2.2   | Electrode assembly for measurement of the volume resistance  |   | N/A                     |

Prüfbericht-Nr.: 21271853\_001  
Test Report No.:

Seite 6 von 8  
Page 6 of 8

| Absatz | EN 61340-5-1  | Messergebnisse - Bemerkungen     | Bewertung  |
|--------|---|----------------------------------|------------|
| Clause | Anforderungen - Prüfungen / Requirements - Tests  | Measuring results - Remarks      | Evaluation |
| 8.2.3  | Electrode assembly for measurement of the resistance to earth, the leakage resistance to a groundable point and the resistance between two surface points |                                  | P          |
| 8.2.4  | The samples must be measured on a smooth flat layer, which must be at least 10 mm longer and wider than the sample body. The minimum thickness is 1 mm.   |                                  | P          |
| 8.3    | Preparation and handling of test samples  |                                  | P          |
| 8.4    | Establishment for verifying the test setup for the surface resistance   |                                  | N/A        |
| 8.5    | Establishment for verifying the test setup for the volume resistance  | Measuring probe 1 and 2 not used | N/A        |
| 8.6    | Measurement methods   |                                  | —          |
| 8.6.1  | Measurement of the surface resistance   | (See table 8.6.1)                | N/A        |
| 8.6.2  | Measurement of the volume resistance  | (See table 8.6.2)                | N/A        |
| 8.6.3  | Measurement of the leakage resistance to a groundable point   | (See table 8.6.3)                | P          |
| 8.6.4  | Measurement of the resistance between two surface points  | (See table 8.6.4)                | N/A        |

Prüfbericht-Nr.: 21271853\_001  
Test Report No.:

Seite 7 von 8  
Page 7 of 8

|        |  |                              |            |
|--------|--|------------------------------|------------|
| Absatz | EN 61340-5-1                                     | Messergebnisse - Bemerkungen | Bewertung  |
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks  | Evaluation |

| <b>8.6.1</b>    | TABLE: Measurement of the surface resistance |   |   |   |   |                                      |                          | N/A     |
|-----------------|--|---|---|---|---|--------------------------------------|--------------------------|---------|
| Measuring point | Measured value [ $\Omega$ ]                  |   |   |   |   | Mean of measured values [ $\Omega$ ] | Upper Limit [ $\Omega$ ] | Verdict |
|                 | 1  | 2 | 3 | 4 | 5 |                                      |                          |         |
|                 |  |   |   |   |   |                                      |                          |         |
|                 |  |   |   |   |   |                                      |                          |         |

| <b>8.6.2</b>    | TABLE: Measurement of the volume resistance |   |   |   |   |                                      |                          | N/A     |
|-----------------|---|---|---|---|---|--------------------------------------|--------------------------|---------|
| Measuring point | Measured value [ $\Omega$ ]                 |   |   |   |   | Mean of measured values [ $\Omega$ ] | Upper Limit [ $\Omega$ ] | Verdict |
|                 | 1   | 2 | 3 | 4 | 5 |                                      |                          |         |
|                 |   |   |   |   |   |                                      |                          |         |
|                 |   |   |   |   |   |                                      |                          |         |

| <b>8.6.3</b>    | TABLE: Measurement of the leakage resistance to a groundable point |                          |         | P |
|-----------------|--|--------------------------|---------|---|
| Measuring point | Measured value [ $\Omega$ ]  | Upper Limit [ $\Omega$ ] | Verdict |   |
| 1A*             | 1,5 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 1B*             | 1,7 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 1C*             | 1,8 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 1D*             | 2,1 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 1E*             | 1,8 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 1F*             | 2,6 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 1G*             | 4,9 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 2A*             | 1,7 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 2B*             | 1,9 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 2C*             | 2,1x10 <sup>6</sup>  | 1x10 <sup>10</sup>       | P       |   |
| 2D*             | 1,9 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 2E*             | 1,9 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 3A*             | 1,9 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 3B*             | 1,9 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 3C*             | 1,8 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 3D*             | 1,8 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |
| 3E*             | 1,8 x10 <sup>6</sup>   | 1x10 <sup>10</sup>       | P       |   |

\* Siehe Anlage 1 für die Position der Messpunkte / \* See Appendix I for the position of the measuring points

Prüfbericht-Nr.: 21271853\_001  
Test Report No.:

Seite 8 von 8  
Page 8 of 8

|        |  |                              |            |
|--------|--|------------------------------|------------|
| Absatz | EN 61340-5-1                                     | Messergebnisse - Bemerkungen | Bewertung  |
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks  | Evaluation |

Anlage I: Position der Messpunkte  
Appendix I: Position of the measuring points



— ENDE DES PRÜFBERICHTES / END OF TEST REPORT —