TEST REPORT: LARGE BUS CONSTRUCTION
Directive 2001/85/EC
Regulation 107.02 up to and including Supplement 5 ECE Regulation 107.03

REPORT/JOB NUMBER: VSM240621

TEST DETAILS
Location of Test
AVS STEPS
Unit 1 Offices 5, 6 and 7
Mereside Industrial Park
Fenns Bank
Whitchurch
Shropshire SY13 3PA
United Kingdom

Date of Test
04 August 2011

VCA Representative(s)
Richard Pegg

Manufacturer's Representative(s)
Shaun Connolly

Reason for Test
Test report only to ensure compliance with Paragraph 7.6.10.9 of EC Directive 2001/85/EEC or 7.6.10.9 of Regulation 107.02 / 107.03

MANUFACTURER DETAILS
Manufacturer’s Name
AVS Steps

Manufacturer’s Address
Unit 1 Offices 5, 6 and 7
Mereside Industrial Park
Fenns Bank
Whitchurch
Shropshire SY13 3PA
United Kingdom

Model Type & description
EXE1200 Double Step Electric

Category
Separate Technical Unit

CONCLUSION
The above mentioned STU was tested in accordance with Paragraph 7.6.10.9 of Directive 2001/85/EC and ECE Regulation 107.03 and was found to comply in all respects

Signature:

Name: Richard Pegg

Position: Type Approval Engineer

Date: 04 AUGUST 2011

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TEST SPECIFICATION AND WORST CASE RATIONALE
AVS EXE1200 Electric Double step Mounted as a separate Technical unit to a test rig by means of Four M6 fastenings at the front of the step and two M8 universal struts bars to the rear of the step.
AVS EXE1200 DA2 is also identical in construction excepting motor position.
The test involved pressing the step via a calibrated load cell with a 100mmx100mm diameter disc at the centre of the extended step at a force of 272 kgs and measuring the deflection to ensure a maximum of 10mm is not exceeded.
This report therefore covers both the EXE1200 & EXE1200DA2 versions.

Tests required (if more than one is applicable)
- **Deflection test**

MANUFACTURER'S DOCUMENTATION
Manufacturer’s documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale

Yes

FACILITY AND EQUIPMENT CHECKS

1. Generic Risk assessment followed
   Insert RA identifier here
   Yes

   OR
   Specific Risk assessment completed and stored in electronic job folder
   No

2. Facilities and test equipment are appropriate
   Brief description of test equipment:
   Load Cell, Monitor and DTI Gauge
   Yes

3. Calibration certificates checked and valid, recorded in the following table
   Yes

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<tr>
<th>Equipment</th>
<th>Serial No.</th>
<th>Calibration data</th>
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<td>Load cell</td>
<td>177438-2</td>
<td>08/09/2011</td>
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<tr>
<td>MONITOR</td>
<td>3146A40954</td>
<td>08/09/2011</td>
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TECHNICAL REQUIREMENTS FOR RETRACTABLE STEPS

When the passenger door is open, the retractable step shall be securely held in the extended position. When a mass of 136 kg is placed in the centre of a single step or a mass of 272 kg is placed in the centre of a double step the deflection at any point on the step, measured relative to the body of vehicle, shall not exceed 10 mm.

Results: 6.4mm Deflection noted at full load

Annex 1:
Photographs: 1 & 2
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