**TEST REPORT: LARGE BUS CONSTRUCTION**

Directive 2001/85/EC
Regulation 107.02 up to and including Supplement 5 ECE Regulation 107.03

<table>
<thead>
<tr>
<th>Paragraph</th>
<th>Requirement</th>
<th>Complies</th>
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</thead>
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**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 TE600 Single Step Electric and Manual
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: [Signature]

Name: Richard Pegg
Position: Type Approval Engineer
Date: 04 AUGUST 2011

**LIST OF ANNEXES**

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Paragraph | Requirement | Complies (Yes, No, N/A)
--- | --- | ---
3 |  | 
4 |  | 

TEST SPECIFICATION AND WORST CASE RATIONALE
AVS TE600 Electric Single step Mounted as a separate Technical unit to a
test rig by means of Two M6 fastenings at the front of the step and
two M8 universal struts bars to the rear of the step.
The test involved pressing the step via a calibrated load cell with a
100mmx 100mm diameter disc at the centre of the extended step at a force of
136 kgs and measuring the deflection to ensure a maximum of 10mm is not exceeded.
TE600 Manual step identical in construction except motor, so electric version selected for test as
worst case

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

FACILITY AND EQUIPMENT CHECKS

1. Generic Risk assessment followed Insert RA identifier here
   OR
   Specific Risk assessment completed and stored in electronic job folder
   Yes

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

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Serial No.</th>
<th>Calibration data</th>
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<tbody>
<tr>
<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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# TEST REQUIREMENTS

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Directive</th>
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<tbody>
<tr>
<td>Ann 3 7.6.10</td>
<td>Ann I 7.6.10</td>
</tr>
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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: 4.7mm Deflection noted at full load

Annex 1:
Photographs: 1 & 2
<table>
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[Image of test equipment]