



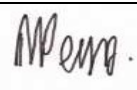
**TEST REPORT: LARGE BUS
CONSTRUCTION**
Directive 2001/85/EC
Regulation 107.02 up to and including
Supplement 5 ECE Regulation 107.03

Paragraph	Requirement	Complies (Yes, No, N/A)
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REPORT/JOB NUMBER:	VSM240621
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TEST DETAILS	
Location of Test	AVS STEPS Unit 1 Offices 5, 6 and 7 Merese 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 Merese 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

LIST OF ANNES		
ANN	No of PAGES	SUBJECT
1	2	Photographs
2		



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3		
4		

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 100mmx 100mm 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 worst case rationale

Yes

FACILITY AND EQUIPMENT CHECKS

- | | | | | |
|---|---|----------------------------------|--------------------------|--------------------------|
| 1 | Generic Risk assessment followed | <i>Insert RA identifier here</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| | OR | | | |
| | Specific Risk assessment completed and stored in electronic job folder | | | <input type="checkbox"/> |
| 2 | Facilities and test equipment are appropriate | | | <input type="checkbox"/> |
| | Brief description of test equipment:
Load Cell, Monitor and DTI Gauge | | | |
| 3 | Calibration certificates checked and valid, recorded in the following table | | | <input type="checkbox"/> |

<u>Equipment</u>	<u>Serial No.</u>	<u>Calibration data</u>
Load cell	177438-2	08/09/2011
MONITOR	3146A40954	08/09/2011



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TEST REQUIREMENTS

Regulation	Directive	
<i>Ann 3</i> 7.6.10	<i>Ann I</i> 7.6.10	TECHNICAL REQUIREMENTS FOR RETRACTABLE STEPS

<i>Ann 3</i> 7.6.10.9	<i>Ann I</i> 7.6.10.9	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.	
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Results: 6.4mm Deflection noted at full load

Annex 1:
Photographs: 1& 2



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