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**TEST REPORT: BUS and COACH BODYWORK**

EC Directive 2001/85/EC  
UNECE Regulation 107 As Amended

**REPORT/JOB NUMBER: VSP277643**

**TEST DETAILS**


Location of Test VCA Midland Centre, Watling Street, Nuneaton, CV10 0UA  
United Kingdom.  
Date of Test 23 May 2013  
VCA Representative(s) Brent Waddington  
Manufacturer's Representative(s) Stuart Taylor  
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 WSH Taylor Engineering  
Manufacturer's Address Unit 36-39 Radway Industrial Park, Radway Green, Crewe  
Cheshire CW2 5PR, United Kingdom.  
Model Type & description BM600 Single Manual step  
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 107.04 and was found to comply in all respects

Signature:   
Name: Brent Waddington  
Position: Type Approval Engineer  
Date: 23 May 2013

**LIST OF ANNEXES**

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### TEST SPECIFICATION AND WORST CASE RATIONALE

BM600 Single Manual step 600mm wide mounted as a Separate Technical Unit to a test rig by four M6 fastenings at the front and two M8 fastenings to the rear of the step. The test involved loading the step via a calibrated load cell with a 100mm diameter disc at the centre of the extended step with a force of 136 kg and measuring the deflection.

Test also covers the BE600 which is identical in structure but electrically operated, and the BM450 and BE450 which are also identical in structure to the BM600 tested but have a narrower width.

Tests required (if more than one is applicable)

- Deflection test as specified in Paragraph 7.6.10.9
- 

### COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

#### 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	<i>Insert RA identifier here</i>	PCRAF-001 SC	Yes
	OR			
	Specific Risk assessment completed and stored in electronic job folder			NA
2	Facilities and test equipment are appropriate			Yes
	Brief description of test equipment:			
3	Calibration certificates checked and valid, recorded in the following table			Yes

Equipment	Serial No.	Calibration data
Load Cell/ Data reader	165096/1075184	19/10/2011 (Calibration valid for 3 years)
Measure		Confirmed zero at start



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### TEST REQUIREMENTS

Complies  
Yes/NA

Directive  
Regulation

### TECHNICAL REQUIREMENTS FOR RETRACTABLE STEPS

2001/85/EEC  
Regulation 107.04

*Directive  
Regulation  
7.6.10.8*

The corners of retractable steps facing forwards or rearwards shall be rounded to a radius of not less than 5mm; the edges shall be rounded to a radius of not less than 2.5mm

Yes

*Directive  
Regulation  
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.

Yes

Result: 138.2 kg Load. 6.2mm Deflection

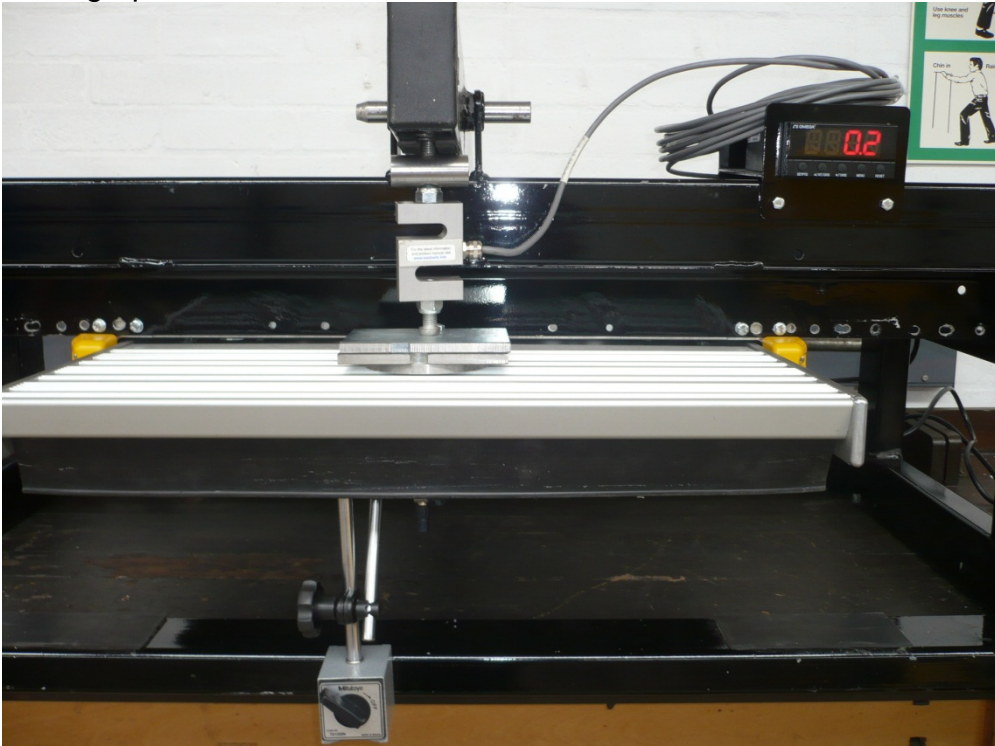
Yes



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Photographs:





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Remarks (if applicable):

