TEST REPORT: LARGE BUS CONSTRUCTION Directive 2001/85/EC

Regulation 107.02 up to and including Supplement 5 ECE Regulation 107.04

Paragraph

Requirement

Complies (Yes, No, N/A)

REPORT/JOB NUMBER: VSN2

VSN255138

TEST DETAILS			
Location of Test	VCA Midland Centre Watling Street Nuneaton		
	Warwickshire United Kingdom CV10 0UA		
Date of Test	15 May 2012		
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 United Kingdom CW2 5PR
Model Type & description	ZM600H Single Manual step
Category	Separate Technical Unit

CONCLUSION	Paragraph	mentioned STU was tested in accordance with 7.6.10.8 and 7.6.10.9 of Directive 2001/85/EC and lation 107.04 and was found to comply in all	
	Name: Brent Waddington		
	Position:	Type Approval Engineer	
	Date:	15 MAY 2012	

LIST OF ANNES			
ANN	No of PAGES	SUBJECT	
1			
2			
3			
4			

	TEST REPORT: LARGE CONSTRUC Directive 2001/8 Regulation 107.02 up to and incl Supplement 5 ECE Regulation 1	
Paragraph	Requirement	Complies (Yes, No, N/A)
		·

TEST SPECIFICATION AND WORST CASE RATIONALE

ZM600H Single Manual 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 fasteners 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. Additional models covered by Test: ZE600H Electric Frame Step

Reason: Identical frame construction as manual version ZM600H tested.

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



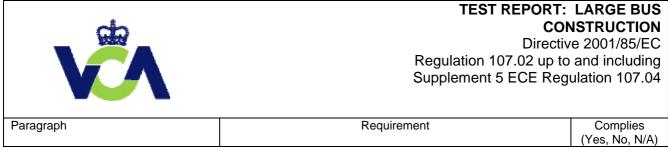
FACILITY AND EQUIPMENT CHECKS

1	Generic Risk assessment followed	Insert RA identifier here		Yes	
	OR Specific Risk assessment completed	and stored in ele	ctronic job folder	No	
2	Facilities and test equipment are app Brief description of test equipment:	ropriate		Yes	

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

Yes
100

Equipment	Serial No.	Calibration data
Load Cell/ Data reader	165096/1075184	19/10/2011
Measure		Confirmed zero at start



TEST REQUIREMENTS

Regulation	Directive		
Ann 3 7.6.10	Ann I 7.6.10	TECHNICAL REQUIREMENTS FOR RETRACTABLE STEPS	

Ann 3 7.6.10.8	Ann I 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
Ann 3 7.6.10.9	Ann 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.	Yes

Test Results:

Step model	Load (kg)	Deflection (mm)	
ZM600H	140.8	4.7	

	CC	Ű
Paragraph	Requirement	Complies (Yes, No, N/A)

Photographs of test set-up:

ZM600H





