



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY


COMMUNICATION CONCERNING THE ~~APPROVAL GRANTED⁽⁺⁾~~/ APPROVAL EXTENDED ⁽¹⁾/
~~APPROVAL REFUSED⁽⁺⁾~~/ ~~APPROVAL WITHDRAWN⁽⁺⁾~~/ ~~PRODUCTION DEFINITELY~~
~~DISCONTINUED⁽⁺⁾~~ OF A LATERAL PROTECTION DEVICE (LPD) PURSUANT TO PART II OF
REGULATION NO. 73.01



Approval No: E11*73R01/01*1168*01

1. Trade name or mark of LPD: DAKEN
2. Type of LPD: Family 8xxxx
3. Name and address of manufacturer:

DAKEN S.p.A.
Via Raffaele Bovio, 32
70126 Bari (BA)
Italy
4. If applicable, name and address of manufacturer's representative: Not applicable
5. Characteristics of the LPD (dimensions and its links): Plastic cover with various dimensions.
See technical drawings attached to the information document.
6. Test conducted on a rigid bench/~~on a vehicle/on a representative part of the vehicle:~~ ⁽¹⁾
7. Position on the LPD of the points of application of the test forces: Central position and close to the extreme sides
8. Vehicle category on which the LPD may be installed: N2, N3, O3 & O4

9. Device submitted for approval on: As before (16 March 2016) and 03 October 2019
10. Technical service responsible for conducting approval tests: Vehicle Certification Agency Europe
11. Date of report issued by that service: As before (31 October 2016) and 03 October 2019
12. Number of report issued by that service: As before (MSR353798) and XSV000144
13. Approval ~~GRANTED/REFUSED/EXTENDED/WITHDRAWN~~ ⁽¹⁾
14. Position of approval mark on the LPD: Close to the handle or on the border of the transparent plastic windows. See technical drawings attached to the information document.
15. Place: BRISTOL
16. Date: 08 NOVEMBER 2019
17. Signature:  D LAWLOR
Chief Technical and Statutory Operations Officer
18. The following documents, bearing the approval number shown above, are available upon request.

Any remarks: Several versions as considered for Variants, see Information Document for details.

Reasons for Extension: To cover:

- 1) Change of manufacturer's address
- 2) Addition of new codes: JUST 81108 - 81109 - 81110; ARKA 81204, 81206, 81208 and STRIKE 82500 - 82501
- 3) Change of WELVET series codes 81005 and 81009 into ARKA series codes 81205 and 81209
- 4) Update of drawing 'Approval number position on each type of boxes' of Information Document
- 5) Update of approval number format as per 1958 Agreement Rev. 3
- 6) Update of fixing type codes in the Information Document
- 7) Addition of drawing '81100 - MONTAGGIO STAFF. ORIZZONTALE' to the Information Document
- 8) Addition of drawing '81105 - MONTAGGIO STAFF. ORIZZONTALE' to the Information Document
- 9) Update of drawings for code 81105 in the Information Document

(1) Strike out what does not apply

TECHNICAL INSTRUCTIONS RELATED TO LATERAL PROTECTION, ACCORDING TO CEE DIRECTIVE 89/297 AND UNECE REGULATION No. 73.

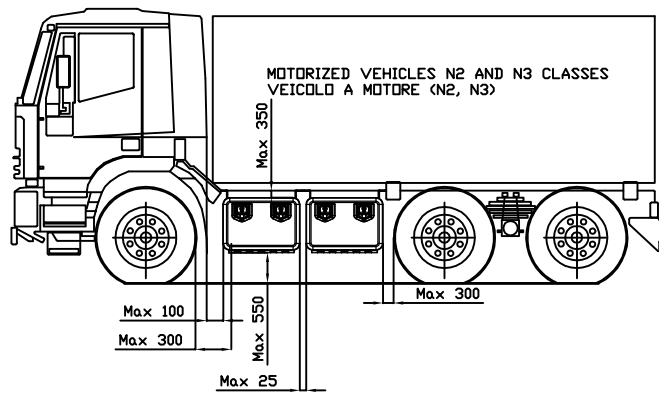
The present technical instructions will be applied to the lateral protections composed by any combination of toolboxes (all sizes), any other lateral protections and fire extinguisher boxes.

This Regulation applies to the lateral protection of complete vehicles of categories N2, N3, O3 and O4.

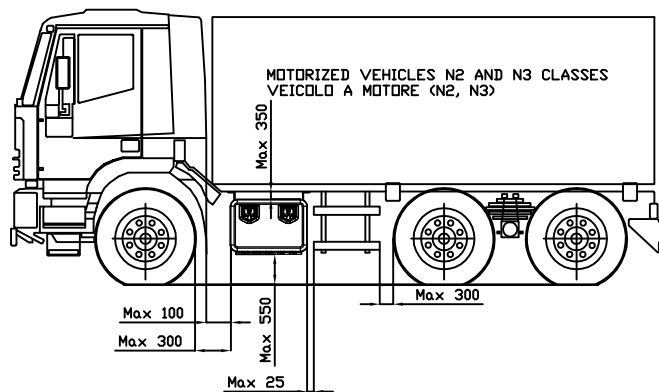
It does not apply to:

- * Tractors for semi-trailers;
- * Trailers specially designed and constructed for the carriage of very long loads of indivisible length, such as timber, steel bars, etc.;
- * Vehicles designed and constructed for special purposes where it is not possible, for practical reasons, to fit such lateral protection.

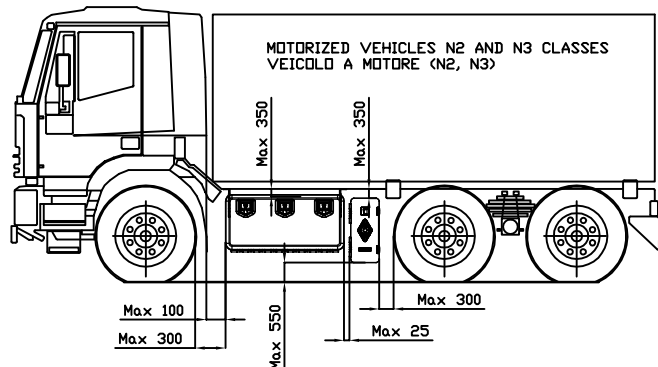
Application case 1 : LATERAL PROTECTION COMPOSED BY TOOLBOXES AND FIRE EXTINGUISHER BOXES.



Application case 2 : LATERAL PROTECTION COMPOSED BY TOOLBOXES, FIRE EXTINGUISHER BOXES AND LATERAL BEAMS.



Application case 3 : LATERAL PROTECTION COMPOSED BY TOOLBOXES AND FIRE EXTINGUISHER BOXES.



The products object of conformity to the 89/297 directive are : toolboxes (all showed sizes) and fire extinguisher boxes.

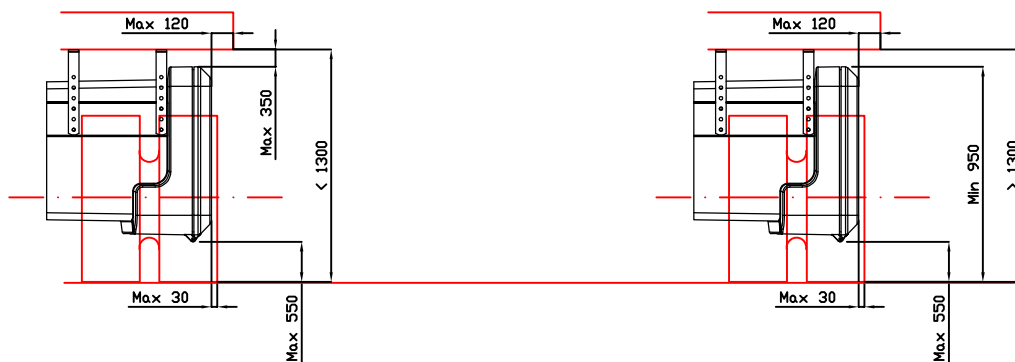
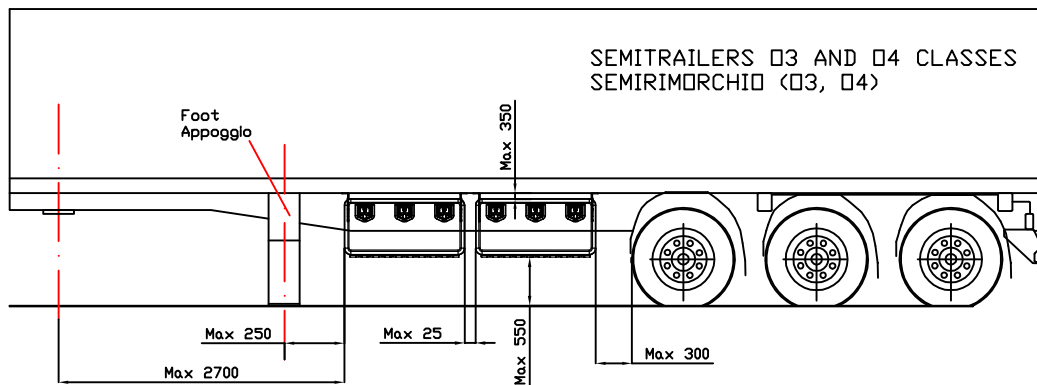
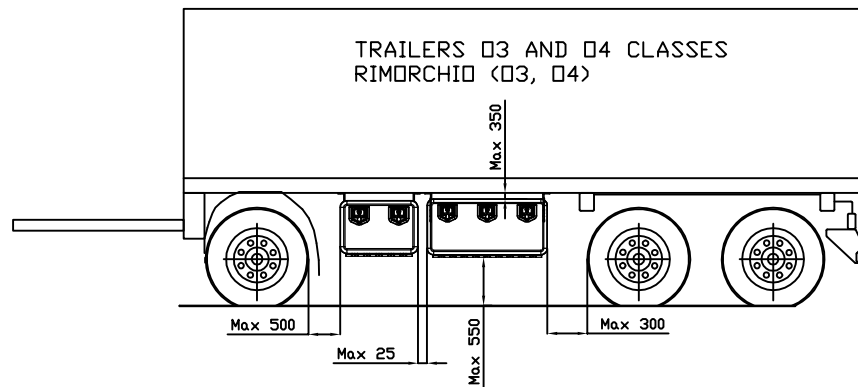
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The products object of conformity to the 89/297 directive are : toolboxes (all showed sizes) and fire extinguisher boxes.

APPENDIX of INFORMATION DOCUMENT
No. XSV000144

Reason for Test	1) Change of manufacturer's address 2) Addition of new codes: JUST 81108 - 81109 – 81110; ARKA 81204, 81206, 81208 and STRIKE 82500 – 82501 3) Change of WELVET series codes 81005 and 81009 into ARKA series codes 81205 and 81209 4) Update of drawing 'Approval number position on each type of boxes' of Information Document 5) Update of approval number format as per 1958 Agreement Rev. 3 6) Update of fixing type codes in the Information Document 7) Addition of drawing '81100 – MONTAGGIO STAFF. ORIZZONTALE' to the Information Document 8) Addition of drawing '81105 – MONTAGGIO STAFF. ORIZZONTALE' to the Information Document 9) Update of drawings for code 81105 in the Information Document
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MANUFACTURER DETAILS	
Manufacturer's Name	DAKEN S.p.A.
Manufacturer's Address	Via Raffaele Bovio, 32 70126 Bari (BA) - Italy
Model Type & description	family 8xxxx, Tool boxes and Fire Extinguisher Boxes incorporated into a Lateral Protection Device
Category	LPD for Vehicle Type N2 & N3, O3 & O4

Updated configuration table of the Family

Typology of Box	Series	Product Code	Fixing Type										
			Vertical	Horizontal									
TOOL BOXES	WELVET	81000	88401	88402	88410	88411	88412						
		81002											
		81004	88401	88402	88420	88421	88422						
		81006											
		81008											
	JUST	81100	88401	88402	88441	88410	88411	88412					
		81102											
		81105	88401	88402	88441	88420	88421	88422					
		81104											
		81106											
		81108											
	81110	88401	88402	88441	88410	88411	88412						
	81109												
	ARKA	81204	88401	88402	88420	88421	88422						
		81205											
		81206											
81208													
81209													
FIRE EXTINGUISHER BOXES	ADAMANT 6/9 KG	82000			88500	88501	88502						
		82010											
		82020											
		82030											
	ADAMANT 6 KG	82040			88500	88501	88502						
		82050											
		82060											
	82070	REGON 6 KG	82170			88501	88502						
	82120							REGON 9 KG	82130			88501	88502
	82180												
	82190	REGON 12 KG	82190			88501	88502						
	82500												
	82501	STRIKE 6 KG	82501			88501	88502						
	85100												
	85101	DUAL	85101										

Remarks:

Codes 82120, 82180, 82010, 82020, 82030, 82040, 82050, 82070, and 85101 have only different color or internal components, but identical external cover respect the respectively Codes 82130, 82190, 82000, 82060 and 85100 tested as representatives.



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Inspection/Test Report: Approval / Extension Without Test

Legislation

UNECE Regulation No(s) 73 series 01 supplement 1

Test Details

Reason for Test Report:

~~New approval~~ / Extension of approval / ~~Report only~~

Reasons of Extension: To cover

- 1) Change of manufacturer's address
- 2) Addition of new codes: JUST 81108 - 81109 - 81110; ARKA 81204, 81206, 81208 and STRIKE 82500 - 82501
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- 9) Update of drawings for code 81105 in the Information Document

Manufacturer Details

Name and Address:

DAKEN S.p.A.
Via Raffaele Bovio, 32 70126 Bari (BA) - Italy

Type:

Family 8xxxx

Commercial Description:

Tool boxes and Fire Extinguisher Boxes incorporated into a Lateral Protection Device

Category:

N2, N3, O3 & O4



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Conclusion

The above mentioned vehicle / engine / component was assessed in accordance with the above mentioned legislation and was found to comply in all respects. This report relates only to the items tested.

Witness Engineer/Test Engineer
Signature:

Name: Francesco Barbierato
Position: Type Approval Engineer
Date: 03 October 2019

List of Annexes

Annex	No of Pages	Subject
-	-	-

Issue Record

See complete records at the Test report ref. MSR353798 issued on 31 October 2016

Worst Case Rationale / Justification for Approval without Test*

Considering the Declaration of the Manufacturer received about this Extension, no new tests are performed on the new Article Codes and the changed Article Codes are covered by the precedent correlated Codes as explained in the declaration attached to the update of the Information Document, dated 18 October 2019.

All new Article Codes, as declared by the Manufacturer, have the same material characteristics referred to the already approved Worst Case code: they have dimensions and structures similar to the referred Article Code, but with a more streamlined design.

Addition of new codes: JUST 81108 - 81109 and 81110, plus ARKA 81204 – 81206 – 81208, plus STRIKE 82500 and 82501.

Change of WELVET series codes 81005 and 81009 into ARKA series codes 81205 and 81209
Update of approval number format as per 1958 Agreement Rev.3

The list of the Worst Case LPD remains the same, with the representative models of the Family 8xxxx as Tool boxes and Fire Boxes incorporated into a Lateral Protection Device, as referred in the Test Report MSR353798.

All representative Codes remain the same identified in Test report MSR353798 issued on 31 October 2016, because the different length is less than the diameter of the disc requested for deflection test (diameter 220mm); the deflection value measured on the representative codes are less than 50% of the admissible deflection of 30mm.

**Include references to any derogation footnotes for special purpose or small-series vehicles, and cross-references to any applicable test reports or approvals that demonstrate compliance of the type, with explanation of how they relate to this vehicle / engine / component.*

Note: Include information on variants and versions this report covers, as applicable



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Manufacturer's Documentation

Manufacturer's documentation is complete and reflects the agreed specification for the vehicle / engine / component tested and covers all variants and versions agreed in the worst case rationale. Information document uploaded to job folder and identified by job number.

Yes



Vehicle Certification Agency
1 The Eastgate Office Centre
Eastgate Road
Bristol
BS5 6XX
United Kingdom
Telephone: +44 (0) 117 951 5151
Fax: +44 (0) 117 952 4103
Email: enquiries@vca.gov.uk
www.dft.gov.uk/vca/

TEST REPORT: LATERAL PROTECTION (SIDE GUARDS)

ECE Regulation 73.01

REPORT/JOB NUMBER: **MSR353798**

TEST DETAILS

Location of Test Z.I. Jesce, Via Appia Antica km 13, 100
75100 Matera (MT) - Italy
Date of Test 16 March 2016
VCA Representative(s) Francesco Barbierato
Manufacturer's Representative(s) Luca Corrado
Reason for Test New approval

MANUFACTURER DETAILS

Manufacturer's Name DAKEN S.p.A.
Manufacturer's Address Via Bormida, 37 70022 Altamura (BA) – ITALY
Model Type & description family 8xxxx, Tool boxes and Fire Extinguisher Boxes
incorporated into a Lateral Protection Device
Category LPD for Vehicle Type N2 & N3, O3 & O4

CONCLUSION

The above mentioned vehicle/component was tested in accordance with ECE Regulation 73.01 and was found to comply in all respects

Signature: 
Name: Francesco Barbierato
Position: Type Approval Engineer
Date: 31 October 2016

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1	3	Test results
2	2	Photographic section



TEST REPORT: LATERAL PROTECTION (SIDE GUARDS)

ECE Regulation 73.01

TEST SPECIFICATION AND WORST CASE RATIONALE

At following the list of the Worst Case LPD tested as representative models of the family 8xxxx as Tool boxes and Fire Boxes incorporated into a Lateral Protection Device:

- Art. Code 81000 Velvet - Tool Box PP-PA6, 410x348x340 mm (external dim.);
- Art. Code 81002 Velvet - Tool Box PP-PA6, 480x400x400 mm (external dim.);
- Art. Code 81004 Velvet - Tool Box PP-PA6, 630x450x480 mm (external dim.);
- Art. Code 81006 Velvet - Tool Box PP-PA6, 830x500x470 mm (external dim.);
- Art. Code 81008 Velvet - Tool Box PP-PA6, 1030x500x480 mm (external dim.);
- Art. Code 81009 Velvet - Tool Box PP-PA6, 1250x524x500 mm (external dim.);
- Art. Code 81100 Just - Tool Box PP-PA6, 500x350x300 mm (external dim.);
- Art. Code 81104 Just - Tool Box PP-PA6, 600x415x460 mm (external dim.);
- Art. Code 81106 Just - Tool Box PP-PA6, 750x350x450 mm (external dim.);
- Art. Code 82000 Adamant - Fire Box PP-PA6-PC, 675x310x250 mm (external dim.);
- Art. Code 82060 Adamant - Fire Box PP-PA6-PC, 611x310x250 mm (external dim.);
- Art. Code 82170 Regon - Fire Box PP-PA6-PC, 620x335x240 mm (external dim.);
- Art. Code 85100 Dual - Fire Box PP-PA6-PC, 616x735x270 mm (external dim.);

See each detailed drawings in the Information Document.

Included in the Information Document are present other drawings covered by this report but not object of the test:

81005; 81102; 81105; 82040, 82050, 82070; 82130; 82190.

However, in general we can consider all other subcategories listed above are covered by the test results of this report:

- 8100x subcategory of Tool Box named "Velvet";
- 8110x subcategory of Tool Box named "Just";
- 820xx subcategory of Fire Box named "Adamant";
- 821xx subcategory of Fire Box named "Regon";
- 85xxx subcategory of Dual Fire Box named "Dual"

The following codes are considered included also the drawings are not present in the Information document:

82020, 82030, 82010 like covered by the test on 82000

82120, 82180 like covered by the test on 82170

85101 like covered by the test on 85100

Tests required

- according with Part II, par. 14.4 (a)

COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

Materials and depth present in the tested samples are the same used in production and checked in all drawings



TEST REPORT: LATERAL PROTECTION (SIDE GUARDS)

ECE Regulation 73.01

TEST REQUIREMENTS

Complies
Yes/NA

Item 1.1 Vehicle Type: N2, N3, O3 & O4

Vehicles, Part I with lateral protection, Part II Lateral protection Device, Part III Installation of an approved or partially approved device to a vehicle.

*Part I & III.
3.1.1.1 &
3.1.1.2*

Vehicle is equipped with a specific device, OR the sides of the vehicle are so designed that component parts can be regarded as replacing the side guards

NA

*Part I & III.
12.1 & 15.1*

Side guards do not increase overall vehicle width.

NA

Distance of main part of outer surface inboard from outermost plane of vehicle (limit < 150mm) mm

NA

Max distance or rearmost 250mm of side guard inboard from outermost edge of rear tyres (excluding bulging closes to the ground) limit < 30mm mm

NA

*Part I & II. 12.2
& 14.1*

Outer surface of side guard is smooth and flat.

NA

Outer surface is continuous from front to rear except for gaps (< 25mm) and/or overlapping edges face rearwards or downwards.

NA

Gaps between adjacent parts are < 25mm and rearward part does not protrude out board of forward part.

NA

Protruding heads of bolts and/or rivets are domed and do not protrude more than 10mm.

NA

Other protruding parts are smooth and rounded and so do not protrude more than 10mm

NA

All external edges and corners have a minimum radii of 2.5mm.

NA

*Part I & II. 12.3
& 14.2*

Side guard consists of:
continuous flat surface
OR one or more horizontal rails
OR combination of above

NA
Yes
Yes



TEST REPORT: LATERAL PROTECTION (SIDE GUARDS)

ECE Regulation 73.01

Rails are not more than 300mm apart and :
 > 50mm high (N₂ and O₃)
 > 100mm high (N₃ and O₄)

Yes
Yes

Motor Vehicle / Drawbar :

*Part I & III,
12.4.1.1 &
15.2.1.1*

Longitudinal distance of forward edge of side guard to rear of rearmost part of tyre on wheel immediately forward of the guard mm

NA

(Limit < 300mm Motor vehicle, < 500mm Drawbar trailer)

NA

Motor vehicle:

*Part I & III,
12.4.3 &
15.2.3*

Dimension above falls within cab or falls behind cab but has been extended to meet cab according to paragraph 12.4.4. & 15.2.4.

NA

Guard meets cab panels and, if necessary, is turned in through an angle not exceeding 45° OR on suspended / tilt cab, gap between front edge of guard and cab panel is < 100mm (in which case 12.4.2 and 15.2.2 does not apply)

NA

*Part I & Part III
12.4.4 and
15.2.4*

At the manufacturers option where the 300mm dimension referred to in 12.4.1.1 & 15.2.1.1 falls behind the cab and the device extends forward to within 100mm of the cab then the provisions of 12.4.3 and 15.2.3 may be met

NA

Semi-Trailer

*Part I & Part III,
12.4.1.3 &
15.2.1.3*

Longitudinal distance of forward edge of side guard to the rear of the transverse plane of the supporting legs, if fitted (limit 250mm) mm

NA

Longitudinal distance of front edge of side guard to centre of kingpin (in rearmost position) limit 2700mm mm

NA

*Part I & Part III,
12.4.2 and
15.2.2*

Where forward edge of side guard lies in otherwise open space, edge consists of continuously vertical member extending over whole height of guard

NA

Outer edge of member measures at least 50mm rearward (N₂, O₃) or 100mm rearward (N₃, O₄) and is turned 100mm inwards.

NA



TEST REPORT: LATERAL PROTECTION (SIDE GUARDS)

ECE Regulation 73.01

<i>Part I & Part III, 12.5 and 15.3</i>	Longitudinal distance of rearward edge of side guard to forward of foremost part of tyre on wheel immediately rearward of the guard (limit 300mm)	mm	NA
<i>Part I and Part III, 12.8 and 15.6</i>	Height of lower edge of guard above ground (limit 550mm)	mm	NA
<i>Part I and Part III, 12.9 and 15.7</i>	The upper edge shall not be more than 350mm below the structure of the vehicle, cut or contacted by a vertical plane tangential to the outer surface of the tyres, except in the following cases.		NA
<i>Part I & Part III, 12.9.1 and 15.7.1</i>	Where the plane in (12.9 & 15.7) does not cut the vehicle structure, then the upper edge shall be level with the load carrying platform, or 950mm from the ground whichever is less.		NA
<i>Part I & Part III 12.9.2 and 15.7.2</i>	Where the plane (in 12.9 & 15.7) cuts the vehicle structure at a level more than 1.3m above the ground: upper edge is not less than 950mm above the ground.		NA
<i>Part I & Part III, 12.9.3 & 4, and 15.7.3 & 4</i>	<i>Note: On vehicles designed and constructed to carry a container or demountable body, or a crane, the container or body is considered as part of the vehicle and the upper edge of the guard is determined in accordance with paragraphs 12.9.1 & 2. and 15.7.1. & 2.</i>		NA
<i>Part I, Part II and Part III, 12.10, 14.4 & 15.8</i>	Side guard is rigid, securely mounted and made of metal or suitable material.		Yes
<i>Part I, Part II and Part III, 12.11, 14.5 and 15.9</i>	Components incorporated in the side guards and permanently fixed, e.g. battery box, air tanks, fuel tanks, lamps, reflectors, spare wheels and tool boxes meet the dimensional requirements.		Yes
<i>Part I & Part III, 12.12 and 15.10</i>	Brake, air or hydraulic pipes are not attached to side guard.		NA

APPLIED FORCE TEST

<i>Part I & Part II, 12.10 & 14.4</i>	Face of ram in circular and flat with a diameter of 220mm +/- 10mm		Yes
	Centre of ram is aligned perpendicularly with the external surface		Yes



TEST REPORT: LATERAL PROTECTION (SIDE GUARDS)

ECE Regulation 73.01

of the guard.

Maximum deflection under horizontal static force of 1kN:

Yes

Over rearmost 250mm (limit 30mm)

mm

Yes

Over remainder of guard (limit 150mm)

mm

NA

CALCULATIONS

*Part I & Part II,
12.10 & 14.4*

Strength calculations show that the device complies with the requirements of these sections.

NA

*Part I & Part II,
12.13 & 14.6*

Force required to vary the position of the device does not exceed 40daN., when LPD is designed to have several positions of use.

NA

APPROVAL

*Part I & Part
III, 5.1.4 &
5.3.4*

Approval mark is conspicuous and in a readily accessible location on the vehicle.

NA

*5.1.6 & 7, and
5.3.6 & 7*

Approval mark is legible and indelible, close to or on the vehicle data plate affixed by the manufacturer

NA

Part II, 5.2.4.

Approval mark is affixed, conspicuously and in a readily accessible location to the main components of the LPD.

Yes

5.2.5

Approval mark is legible and indelible.

Yes

Remarks (if applicable): not applicable

