THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED (1)/ APPROVAL EXTENDED (1)/ APPROVAL REFUSED (1)/ APPROVAL WITHDRAWN (1)/ PRODUCTION DEFINITIVELY DISCONTINUED (1) OF A LATERAL PROTECTION DEVICE (LPD) PURSUANT TO PART II OF REGULATION NO. 73.01

Approval No: 73R-011018

Extension No: 02

Reason(s) for extension: To cover:
1.) Introduction of new lateral section as an alternative to SG132, this item to be known as SG132'L'. Copy of extrusion drawing for SG32L attached
2.) This Extrusion to be offered with reduced Leg Spacing to allow for reduced thickness of section

1. Trade name or mark of LPD: Aalco Metals Ltd
2. Type of LPD: SG132, SG132L, SG105
3. Name and address of manufacturer:
   Aalco Metals Ltd
   Parkway House,
   Unit 6 Parkway Industrial Estate
   Pacific Avenue
   Wednesbury
   WS10 7WP
   United Kingdom
4. If applicable, name and address of manufacturer’s representative: Not Applicable
5. Characteristics of the LPD (dimensions and its links): See Manufacturer’s Documents
6. Test conducted on a rigid bench/on a vehicle/on a representative part of the vehicle: (1)

An executive agency of the Department for Transport
December 2017 Revision 6
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7. Position on the LPD of the points of application of the test forces: Front, centre of leg span, rear.

8. Vehicle category on which the LPD may be installed: N2, N3, O3, O4

9. Device submitted for approval on: As before (09 August 2012) and 11 June 2018

10. Technical service responsible for conducting approval tests: Vehicle Certification Agency

11. Date of report issued by that service: As before (09 August 2012) and 30 July 2018

12. Number of report issued by that service: As before (VSM251144) and VSU431922

13. Approval GRANTED/REFUSED/EXTENDED/WITHDRAWN: (1)

14. Position of approval mark on the LPD: On the rail, pillar and legs

15. Place: BRISTOL

16. Date: 14 NOVEMBER 2018

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: None

(1) Strike out what does not apply
AALCO Metals Ltd
Application for Extension to E11-73R-011018
Reason for Extension:

Job Number VSU 431922

1) Introduction of new lateral section as an alternative to SG132, this item to be known as SG132‘L’. Copy of extrusion drawing for SG32L attached
2) This Extrusion to be offered with reduced Leg Spacing to allow for reduced thickness of section

Refer to Kit Selection Table, Appendix 3A for Testing Dimensions
Information document for approval of lateral protection device (LPD) pursuant to Part II of Regulation No. 73

VCA Job No: VSU431922

0. GENERAL.

0.1 Make (trade name of manufacturer): Aalco Metals Ltd

0.2 Type & general commercial description(s): SG132, SG132L, SG105

0.5 Name & address of manufacturer: Aalco Metals Ltd
Parkway House
Unit 6 Parkway Industrial Estate
Pacific Avenue, Wednesbury,
West Midlands. WS10 7WP

0.7 In the case of components & separate technical units, location and method of affixing the EC approved mark:

On either end of the rails SG132, SG132L, SG105, on each SGP132 Pedestrian Pillar & on each leg SGL500 & SGL700

0.8 Name & Address of assembly plants:

Aalco Metals Ltd T/A The Metal Centre
Western Way, Wednesbury, WS10 7BW

Aalco Metals Ltd
Shelah Road, Halesowen, B63 3PH

0.9 Name & Address of Manufacturers Representative: N/A

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE DEVICE

1.5 Material used for side members: Aluminium Alloy 6063T6

2. VEHICLE CATAGORIES TO WHICH THE UNIT APPLIES

2.1 Catagories: N2, N3, O3, O4

9. BODYWORK

9.2 Materials used & method of construction: Minimum: 100mm x 50mm x 2.3mm Aluminium Alloy or Galvanised Steel Cross Member
9.3 Characteristics of Lateral Protection Device:


Other Components: EC-SG132, ABS End Cap, REC-SGP132ABS Cap, M8 x 25mm Cup Square Bolts c/w Nylock Nuts.

Annex:

- Technical drawings of Main Parts and Assembly (With material spec)
- Fitting Instructions
APPENDIX 1 – AALCO SIDEGUARD KIT 1

Installation guide

SG132 / MIS / SGL-700

Components list

MIS / SGL-700

SG132

SGL132/500

EC-SG132

REC-SGP132

M8 x 20 (4.8) ZP cup sq.hd. 13 Nm Maximum Torque

(All dimensions are shown in mm. Diagrams not to scale)
Assembly instructions

SG132 / MIS / SGL-700

Rails specified stock size length. User cut to length as required.

Min. Bearer
Galv = 2.0mm thick
Alu = 3.0mm thick

Front End View

Front Pillar/Cap x500mm for Twin Rail System

Rear End View

Legs supplied standard length. User cut to length as required

Refer to Components List for Details of Fixings / Torque

(All dimensions are shown in mm.
Diagrams not to scale)
APPENDIX 1 – AALCO SIDEGUARD KIT2

Installation guide

SG105 / MIS / SGL-700

Components list

MIS / SGL-700

SG105

SGP132/500

EC-SG105

REC-SGP132

M8 x 20 (4.8) ZP cup sq. hd. 13 Nm Maximum Torque

(All dimensions are shown in mm. Diagrams not to scale)
Assembly instructions

SG105 / MIS / SGL-700

Rails specified stock size length. User cut to length as required.

Min. Bearer
Galv = 2.0mm thick
Alu = 3.0mm thick

Front End View

Front Pillar/Cap x500mm for Twin Rail System

Rear End View
Legs supplied standard length. User cut to length as required

Refer to Components List for Details of Fixings / Torque

(All dimensions are shown in mm. Diagrams not to scale)
APPENDIX 1 – AALCO SIDEGUARD KIT 3

Installation guide

SG132 / MIS / TK / SGL-500

Components list

TK / SGL-500
MIS / SGL-500

SG132

EC-SG132

M8 x 20 (4.8) ZP
cup sq.hd. 13 Nm
Maximum Torque

SGP132/100

REC-SGP132

(All dimensions are shown in mm. Diagrams not to scale)
Assembly instructions

SG132 / MIS / TK / SGL-500

Rails specified stock size length. User cut to length as required.

Min. Bearer
Galv = 2.0mm thick
Alu = 3.0mm thick

Front End View

Front Pillar/Cap
x100mm for Single Rail System

Rear End View

Legs supplied standard length. User cut to length as required

Refer to Components List for Details of Fixings / Torque

(All dimensions are shown in mm. Diagrams not to scale)
Installation guide

SG105 / MIS / TK / SGL-500

Components list

TK / SGL-500
MIS / SGL-700

SG105

EC-SG105

SGP132/100

REC-SGP132

M8 x 20 (4.8) ZP cup sq. hd. 13 Nm Maximum Torque

(All dimensions are shown in mm. Diagrams not to scale)
Assembly instructions

SG105 / MIS / TK / SGL-500

Rails specified stock size length. User cut to length as required.

Min. Bearer
Galv = 2.0mm thick
Alu = 3.0mm thick

Front Pillar/Cap x100mm for Single Rail System

Rear End View
Legs supplied standard length. User cut to length as required

Refer to Components List for Details of Fixings / Torque

Front End View

(All dimensions are shown in mm. Diagrams not to scale)
# APPENDIX 3 – KIT SELECTION TABLE

<table>
<thead>
<tr>
<th>Kit no.</th>
<th>Leg</th>
<th>Rail</th>
<th>Max drop (mm)</th>
<th>Max leg spacing (mm)</th>
<th>Max front overhang (mm)</th>
<th>Max rear overhang (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
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<td></td>
<td></td>
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<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Leg</th>
<th>Rail</th>
<th>Max drop (mm)</th>
<th>Max leg spacing (mm)</th>
<th>Max front overhang (mm)</th>
<th>Max rear overhang (mm)</th>
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</thead>
<tbody>
<tr>
<td>SG105</td>
<td>SG132</td>
<td>500</td>
<td>3000</td>
<td>750</td>
<td>300</td>
</tr>
<tr>
<td>SG105</td>
<td>SG132</td>
<td>500</td>
<td>3000</td>
<td>750</td>
<td>300</td>
</tr>
<tr>
<td>SG105</td>
<td>SG132</td>
<td>500</td>
<td>3000</td>
<td>750</td>
<td>300</td>
</tr>
</tbody>
</table>
Technical Data and Specifications

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>LENGTH</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>OV 650-572</td>
<td>572</td>
<td>6x52.5=315</td>
<td>356</td>
<td>117</td>
</tr>
<tr>
<td>OV 650-732</td>
<td>732</td>
<td>8x52.5=420</td>
<td>456</td>
<td>176</td>
</tr>
</tbody>
</table>

FINISH ALTERNATIVES

C = ZINC COATED
P* = CATHODIC DIP COATING

*There is a min. order limit for this feature

ORDERING SYSTEM

LENGTH | FINISH
---|---
OV 650 - X - X
(EXAMPLE: OV 650-732-C)

PENDING EP PATENT APPLICATION NO EP 03102298.1

M.I.S. Products Limited
84 Manor Rise
Lichfield, Staffs., WS14 9RF
Tel: 07800 538661  Fax: 0870 762 0991
e-mail: sales@misproducts.co.uk
Portugal

"P" = 0.3 x 90°

Sapat: 0.301 Al Mg Si 0.5 - F22

Aras: 0.154

DESEN. 03/10/08

VERIF. PAULA C.

PRODU. C. QUAL. A4

Escalas: 1:1 2:1

14-Nov-18
Unspec. corner rounded 0.5mm

- Important Dimensions
- Check Point

Visible Surface — VS —

Painted Surface — PS — (Critical)
- PS — — — (Non-critical)

Unspec thickness: 1.3 mm

Thickness tolerance: ±0.30 mm

Visible surface perimeter: 162.9 mm

Approx. painted perimeter: - mm
## KIT SELECTION TABLE. (Configuration Table)
Appendix 3A

<table>
<thead>
<tr>
<th>Kit No</th>
<th>Leg</th>
<th>Rail (s)</th>
<th>Max Drop (mm)</th>
<th>Max Leg Spacing (mm)</th>
<th>Max Overhang Front (mm)</th>
<th>Max Overhang Rear (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>TAKLER 500</td>
<td>SG132 ‘L’ (Single)</td>
<td>500</td>
<td>2500</td>
<td>500</td>
<td>200</td>
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<tr>
<td>6</td>
<td>TAKLER 700</td>
<td>SG132 ‘L’ (Double)</td>
<td>700</td>
<td>2500</td>
<td>500</td>
<td>150</td>
</tr>
</tbody>
</table>

### Definitions:
- **Max Drop**: Max drop to bottom of lowest rail
- **Max Leg Spacing**: Maximum distance between legs, taken from center of each leg
- **Max Overhang Front**: Maximum distance to front of rail, including pedestrian kit, from center of nearest leg.
- **Max Overhang Rear**: Maximum distance to rear of rail from center of nearest leg.