

TEST REPORT

Concerning the approval of Lateral protection devices (LPD) as a separate technical unit (Part II) in accordance with Regulation 73.01

Test report number : **RDW-73R-0094514**

- 0.1. Make of the lateral protection device : Tilbox
- 0.2. Type of the lateral protection device : Toolbox Tilbox, Toolbox Europa
- 0.4. Intended category of the vehicle : O3, O4 And N2, N3
- 0.5. Name and address of the manufacturer : F. Tilburgs Metaal B.V.
John F. Kennedylaan 5
5555XC Valkenswaard,
The Netherlands

General : The Lateral protection devices complies with the requirements laid down in:
- Part II of above-mentioned Regulation.
See documentation: E4*73R01/02*0071*02


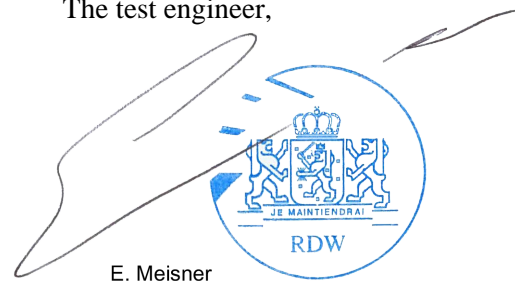
Tests : The tests/calculations have been carried out in accordance with Part II of the above-mentioned Regulation.
See page 2 to 4.

Conclusion : The type of Lateral protection devices complies with the requirements and there are no objections to granting the approval under the above-mentioned Regulation.

Tests conducted on : 29 June 2020

By : E. Meisner

Zoetermeer, 04 November 2020,
The test engineer,



E. Meisner

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List of attached documentation

Subject	Number of pages
R73 Quality mark	23

Reason for testing

New worst-case test to cover all possible configurations in the Tilsmart configurator

Used test equipment/calculation program

Item	Identification number (make and type)	Calibration papers available
		yes/not checked
		yes/not checked
		yes/not checked
		yes/not checked
		yes/not checked

Remarks

Physical tests have been performed on all supports and some of the boxes, larger and smaller, they show that the calculation is reliable to use on all sizes of boxes. See attached R73 Quality mark



General information

Make and type of the LPD	Tilbox Toolbox Europe
Intended Vehicle category	O3, O4 And N2, N3
Test conducted by	E. Meisner
Place	Valkenswaard, The Netherlands
Date	29 June 2020

Part II Approval of lateral protection devices (LPD)

14. Requirements

- 14.1. The outer surface of the LPD shall be smooth, and so far as possible continuous from front to rear; : pass/~~fail~~
 Adjacent parts may however overlap provided that the overlapping edge faces rearwards or downwards, or a gap of not more than 25 mm measured longitudinally may be left, provided that the rearward part does not protrude outboard of the forward part; : pass/~~fail~~/N/A
 Domed heads of bolts or rivets may protrude beyond the surface to a distance not exceeding 10 mm and other parts may protrude to the same extent provided that they are smooth and similarly rounded; : pass/~~fail~~/N/A
 All external edges and corners that may be contacted by a sphere of 100 mm diameter shall be rounded with a radius not less than 2.5 mm; : pass/~~fail~~
 those protruding less than 5 mm shall have blunted outward facing edges. : pass/~~fail~~/N/A
- 14.2. LPD may consist of a continuous flat surface, or of one or more horizontal rails, or a combination of surface and rails; when rails are used they shall be not more than 300 mm apart and not less than: : pass/~~fail~~
 the surface is flat, always higher than 100 mm
 a) 50 mm high in the case of LPD for vehicles of categories N2 and O3; : pass/~~fail~~/N/A
 b) 100 mm high and essentially flat in the case of LPD for vehicles of categories for N3 and O4. : pass/~~fail~~/N/A
 Combinations of surfaces and rails shall form a practically continuous LPD subject, however, to the provisions of paragraph 14.1. : pass/~~fail~~/N/A
- 14.3. The forward edge shall consist of a continuous vertical member extending over the whole height of the device; : pass/~~fail~~
 the LPD shall not be used as a forward edge
 the outer and forward faces of this member shall measure at least 50 mm rearwards and be turned 100 mm inwards or have a minimum radius of 50 mm in the case of vehicles of categories N2 and O3 : pass/~~fail~~/N/A
 and at least 100 mm rearwards and be turned 100 mm inwards or a minimum radius of 100 mm in the case of vehicles of categories N3 and O4. : pass/~~fail~~/N/A



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- 14.4. LPD shall be essentially rigid and, except as regards the parts listed in paragraph 14.5., made of metal or any other suitable material. : pass/~~fail~~
LPD shall be considered suitable if they are capable of withstanding a horizontal static force of 1 kN applied perpendicularly to any part of their external surface by the centre of a ram the face of which is circular and flat, with a diameter of 220 mm ± 10 mm, : pass/~~fail~~
If the deflection of the device under load measured at the centre of the ram is then not more than:
a) 30 mm over the rearmost 250 mm of the device; : pass/~~fail~~
and 6,55 mm
Calculated
Worst case, with supports in the middle.
See page 14
b) 150 mm over the remainder of the device : pass/~~fail~~
20,18 mm
18,18 + 2,00 mm
Worst case box with worst case supports, See page 11 t/m 15
- At the request of the manufacturer, compliance with this requirement may be demonstrated by calculation. The validity of the calculation method shall be established to the satisfaction of the Technical Service. : Combination of calculation and test to prove the calculation
- 14.5. Components permanently fixed to the vehicle, e.g. spare wheels, battery box, air tanks, fuel tanks, lamps, reflectors and tool boxes may be incorporated in a device, provided that they meet the dimensional requirements of this part. : pass/~~fail~~/N/A
at all times the surface is smooth and continuous
- 14.6. LPD may be so designed to have several positions at the side of the vehicle. In this event, there must be a guaranteed method of securing them in their normal operating position so that any unintentional change of position is precluded. The force applied by the operator to vary the position of the device shall not exceed 40 daN. : pass/~~fail~~/N/A

