Transmitted by the expert from Germany

Informal document No. GRE-62-37 (62nd GRE, 6 – 9 October 2009, agenda item 4(c))

Agenda item 4(c)

Regulation No. 48 (Installation of lighting and light – signalling devices

Clarifications on installation requirements

Paragraph 6.21

CONSPICUITY MARKINGS

Basic document TRANS/WP.29/GRE/2009/69





Objectives of this proposal

General Problems

Detailed Questions





The European Directive for

the Whole Vehicle Type Approval (WVTA) is intended to extend the application to

all categories of vehicles, and also

to single vehicle approval.





That means:

All vehicles which were been excluded before or which are seen as matter for the national authorities, shall now meet all technical requirements as requested by the WVTA!



As from 10 July 2011,

EU Member States will issue certificates of conformity for new vehicles regarding lighting installation

only if the vehicle complies with Regulation No. 48

In addition, such requirements may also be introduced by other Contracting Parties.





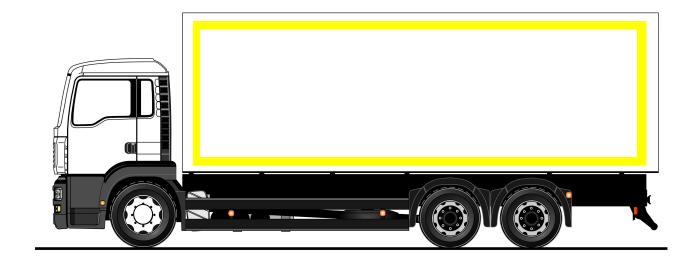
To make it clear

The proposal of Germany do not tough vehicles which could at which the installation is possible without any problem or which could be constructed or designed in such a way that it makes no problem.









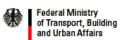






The majority of the vehicles which are covered by paragraph 6.21 in R 48 have no problems to fulfil these requirements!





This proposal is intended to solve problems for vehicles for which

it is impossible, due to the

- -shape,
- -structure,
- -design or

Required or caused

by the use and/or operational necessities!!

- -operational requirements
- of the vehicle, to comply with all or part of the requirements



Similar situation ...

under run protection!

e.g. Directive 2000/40/EC

- 1.3. The requirements of this Directive do not apply to:
- 1.3.1. off-road vehicles of categories N2 and N3;
- 1.3.2. vehicles such that their use is incompatible with the provisions of front under run protection.

Or

e.g. ECE-R 73

Paragraph 8 **Derogations**





Dispute between the question

"impossible" or "impractical"

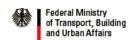
And

"bad engineering"



100 m



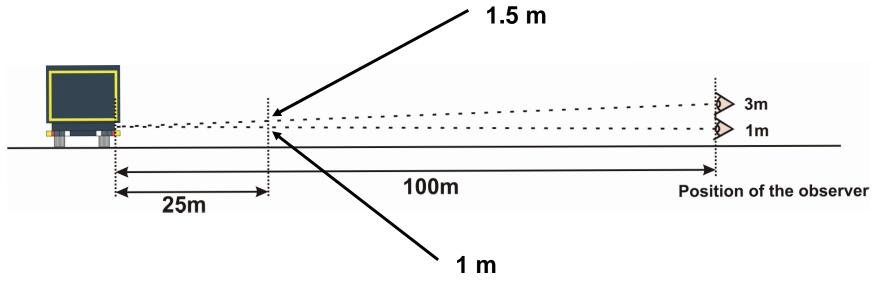


Conspicuity Marking is a device intended to increase the conspicuity of a Vehicle in a far distance of more than 100m.

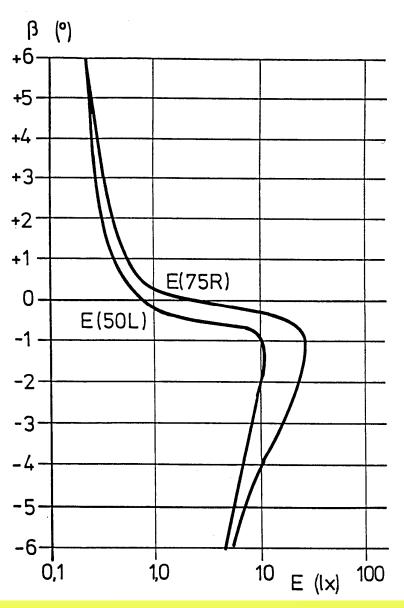












Characteristic light distribution of a low beam lamp projected on a screen at 25 m with vertical cuts through the ECE measuring point B50L and E50L shown as E (50L) and the ECE measuring point 75R shown as E (75R) as defined e.g. in the ECE-Regulation 112.



Mounting Height





If possible,

other mounting positions must determined for the specific material by additional tests!











Non flat surfaces



Non flat surfaces ...

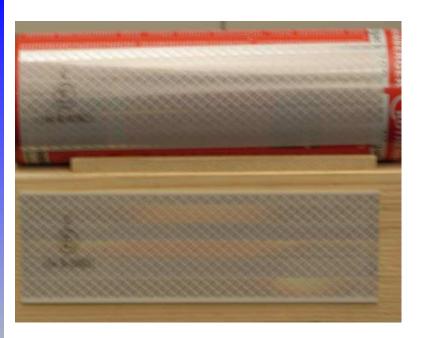


If possible,

the mounting on a non flat surface must determined for the specific material by additional tests!







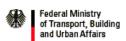
Simple demonstration ...

Non flat surfaces









Durability

Statement of materials manufacturer:

The <u>warranty</u> for materials on rigid parts is nearly three times longer than for materials on flexible surfaces!





Customs Requirements

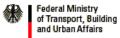




But also some vehicles are completely covered by tarpaulins and curtains ...







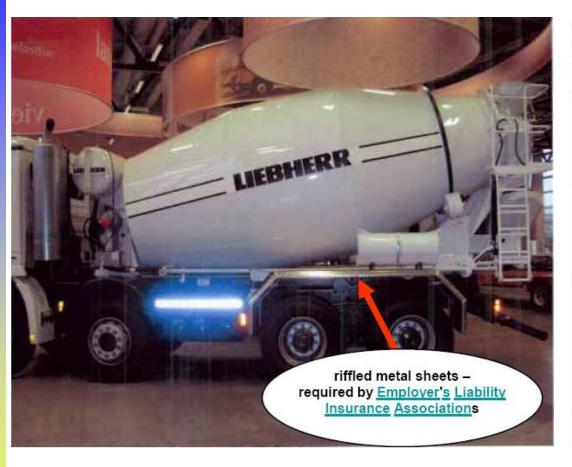
Difficult vehicles ...









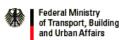






Problems in practise ...













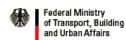


The rear part inclusive the rear under run protection device is completely in the mud!

Retro-reflective marking material will be destroyed!

High temperature ...





Vehicles for the transport of substances with high temperature, e.g. bitumen











Heater! Range 100° to 300°





Alternative retro -reflectors ...





















Question

ECE – R 70 plates ...









Alternative application of Regulation 70 plates







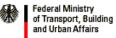


Alternative application of Regulation 70 plates









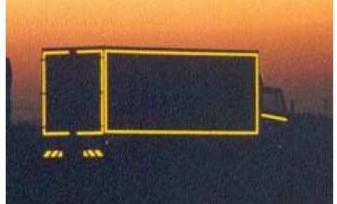






Following the contour

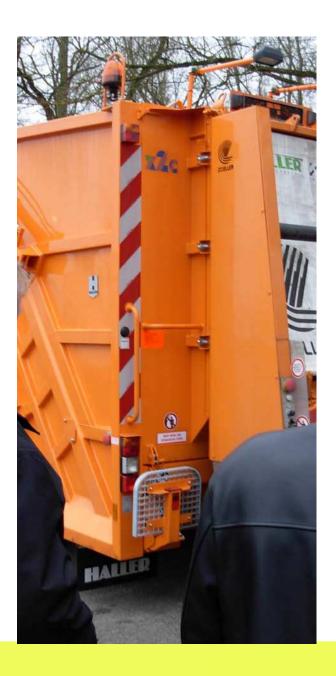










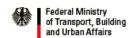


Possible conflicts
with national requirements
for municipal vehicles must
be solved national!

Question

Load



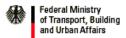
















Thank you very much For your attention and your patience



