IFM – Institut für Fahrzeugtechnik und Mobilität





VO (EU) no. 2015/208 Anx. XIV

Requirements for the exterior and for accessories of the vehicle

VO (EU) Nr. 2015/208 Anh. XIV



- Overview
- Scope
- Requirements
- Special features
- Practical implementation

Overview







All vehicle classes acc. to CR (EU) no. 167/2013 have to meet the requirements!





Overview



- Exemptions are defined for certain tools on vehicles of the classes R and S.
- Different areas of application depending on the outer edge of the vehicle

Scope (1)

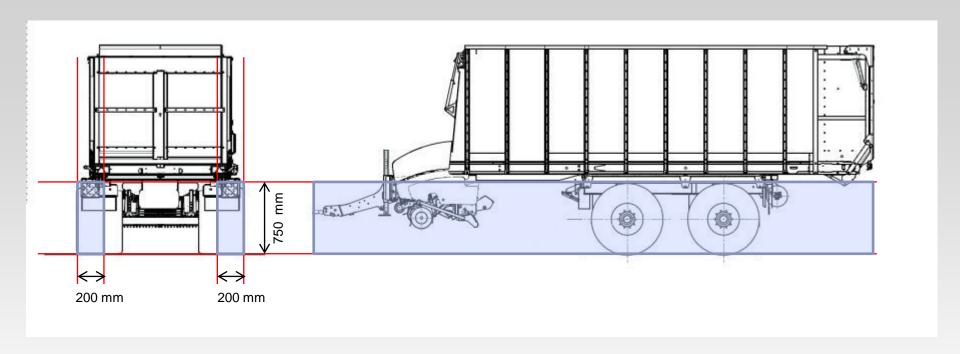


...concerns the following parts of the outer surface:

- "...those parts including the entire wheel and track... on the sides and in a height of less than 0.75 m which form the outer edge for each vertical plane perpendicular to the longitudinal axle....".
- "...<u>apart</u> of those parts wich are further than 200 mm away from the right and left outer edge in relation to the longitudinal axle ...".

Scope (1)





- Define outer edge
- Define height range
- Tyres, wheels and rims, axles etc. are assessed

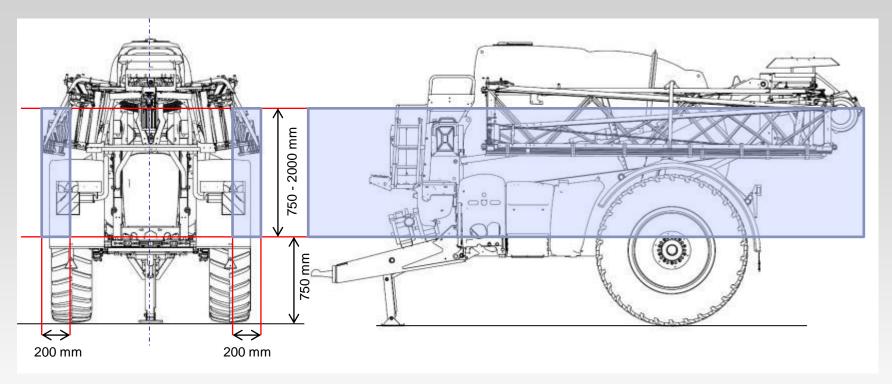
Scope (2)



- All parts on the sides in a height between 0.75 m and 2 m without:
- "...those parts which cannot be touched with a ball of a diameter of 100 mm when approaching horizontally in any plane perpendicular to the longitudinal axle; the deferment must not exceed 200 mm ...".
- "...the entire wheels and tracks...".

Scope (2)

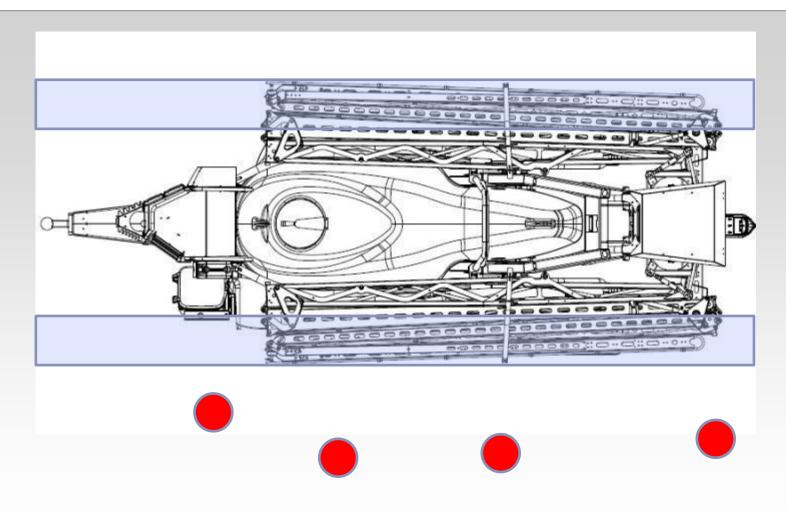




- Define outer edge
- Define height range
- Deferment of ball max. 200 mm
- Tyres, rims, axles, etc. are <u>not</u> assessed

Scope (2)





Requirements



- No protruding part of the outer area must have a rounding radius of less than 2.5 mm.
- This does not apply to parts which:
 - Protrude less than 5 mm. The outer edges of these parts must be chamfered.
 - Protrude less than 1.5 mm.
 - Have outer areas made of material of a hardness of less than 60 Shore A.

Requirements



- The outer areas of the vehicle must not have pointy or sharp parts facing outwards, rough surfaces or parts protruding outwards.
- No outwards pointing parts must be on the outer areas of the vehicle in which pedestrians, bicyclists of motor bike drivers could be caught.

Special features



- Selection of test vehicle:
 - largest tyre diameter
 - narrowest track
 - loaden vehicle
 - worst case for vehicles with leveling suspension, etc.

Special features



- The following parts are exempt:
 - Tyre pressure tester
 - Anti-slip device which can be attached to the wheels
 - Rear-view mirrors
 - Direction indicators on the side
 - End-outline marker lamp
 - Position lamp and tail light
 - Parking lights

Special features



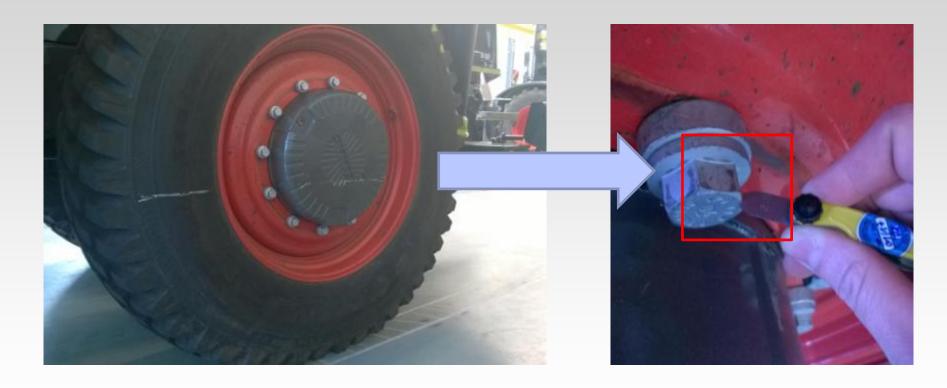
 Exemption for unprotected tools on vehicles of classes R and S, if they are folded shut for street transport and if they are assigned to directive 2006/42/EC.





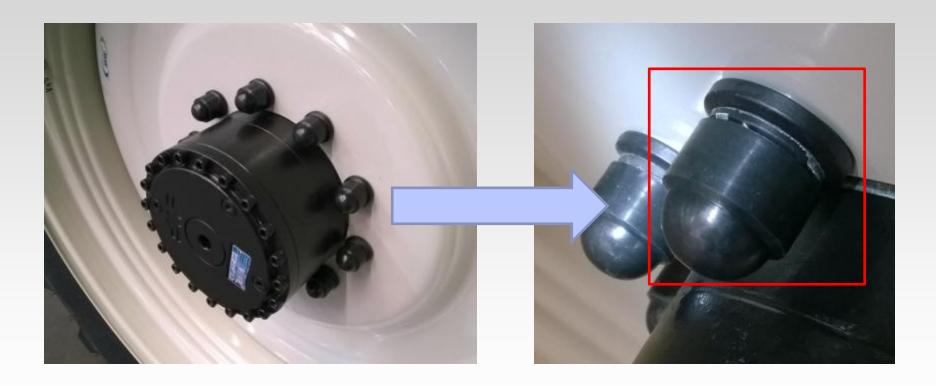


Problem: wheel bolts / wheel nuts



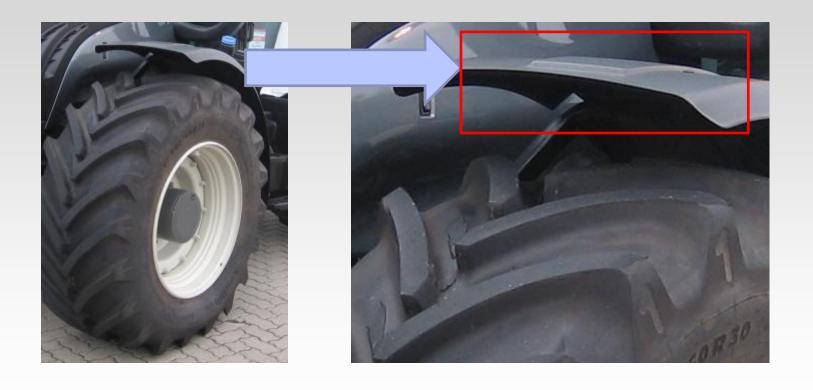


Solution: Wheel bolt/ wheel nut



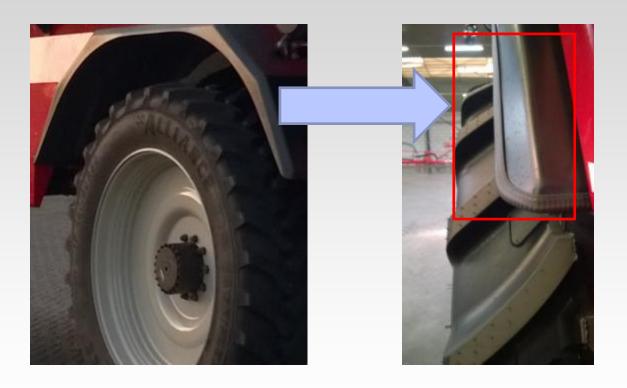


Problem: Mudguards





Solution: Mudguards





Problem: Steps

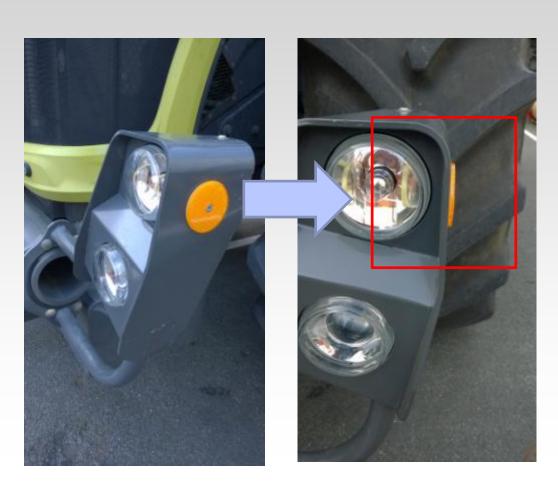




We are working on the problem of roughness!



Problem: Side reflectors



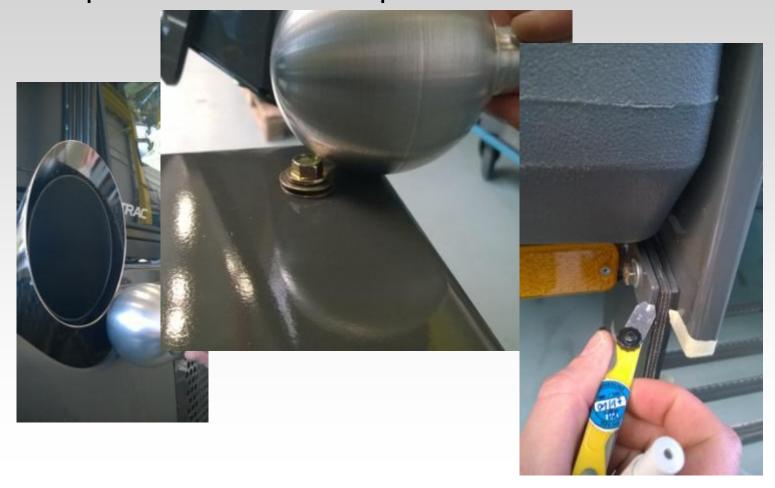
Reflectors are not exempt!

We are in discussion with the authorities!





Further problems with the implementation:





Further problems with the implementation:





Thank you for listening



Thomas Ameling

TÜV NORD Mobilität

IFM - Gesamtfahrzeug Fachgebiet Sonderfahrzeuge, Nutzfahrzeuge, Krafträder Am TÜV 1 30519 Hannover

Tel.: +49 511 9986 1254 TAmeling@tuev-nord.de