UNECE regulation 58 rev. 3

Improving safety – by stricter rules for the transportation industry





UNECE R58 applies to

- RUPDs to be fitted to vehicles categories M, N and O
- 2. The installation on vehicles (M, N, O) of RUPDs which have been type approved
- 3. Vehicles (M, N, O) equipped with an RUPD which has not been separately approved or so designed and/or equipped that its component parts can be regarded as totally or partially fulfilling the function of the RUPD



General requirements

"...constructed and/or equipped as to offer effective protection over their whole width against underrunning of vehicles..."

Measures according to R58.02





3 main types of RUPDs

FIXED / DETACHABLE

FOLDABLE

SLIDING / ADJUSTABLE









New rules apply from 2019

What does it mean for:

- The transportation industry?
- The bodybuilders / fitters?
- The fleet owners / managers?
- RUPD manufacturers?







The changes

- Lower ground clearance
- Shorter rear overhang
- Increased test forces
- Heavier structural dimensions
- Stricter and more fair test set-up



Withstanding increased impact forces

Applies to:

- Construction design
- Structural dimensions
- Testing and validation







- A. RUP beam under test
- B. RUP support brackets under test
- C. Frame, part of test bench
- D. Rigid foundation, part of the test bench

Stricter and more fair test set-up

- More stringent requirements on calculation based
 approval
- Calculation shall be validated against physical tests
- Clearer text to force all manufacturers to account for the total maximum deformation



Longitudinal position – new rules





Profile height – new rules



≥ 120 mm

≥ 100 mm (M, N1, N2 below 8 tonnes)









Ground clearance – exemption

If a departure angle of 8 degrees can not be reached a ground clearance of up to 550 mm can be accepted.



Two critical dates

The new rules are coming into force by:

2019 Sept 01

for new type-approved vehicles



for newly registered vehicles



Industry impact

BODYBUILDER / FITTER

- Fewer suppliers
- Increased vehicle weight
- New certifications required

FLEET OWNER / MANAGER

- Increased vehicle cost
- Increased vehicle weight
- Fewer suppliers
- Varied fleet due to
 non-compliance
- Strategy for fleet replacement

MECHANIC / TECHNICIAN

- New mounting routines
- Risk of greater damage to
 vehicle chassis (from impact)



Thank you!

