62nd Session of GRSP

EC E R129 Phase 3
Pierre CASTAING - UTAC CERAM
Summary

- History of Regulation ECE R129
- Phase 1 => Principles & Achievements
- Phase 2 => Principles & Achievements
- Phase 3 => Principles
- Phase 3 => Challenges
- Phase 3 => Achievement at date
- Next steps
### History of Regulation ECE R129

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2017/12/12 62nd GRSP
GRSP 62nd Session R129 documents

**Original version**

- ECE/TRANS/WP.29/GRSP/2017/31 (Supplement 7 to R129-00)
- ECE/TRANS/WP.29/GRSP/2017/34 (Supplement 7 to R129-00)
- ECE/TRANS/WP.29/GRSP/2017/44 (Supplement 7 to R129-00)

**01 Series**

- ECE/TRANS/WP.29/GRSP/2017/27 (Supplement 4 to R129-01)
- ECE/TRANS/WP.29/GRSP/2017/32 (Supplement 4 to R129-01)
- ECE/TRANS/WP.29/GRSP/2017/35 (Supplement 4 to R129-01)
- ECE/TRANS/WP.29/GRSP/2017/43 (Supplement 4 to R129-01)
- GRSP-62-22 (Supplement 5 to R129-01)

**02 Series**

- ECE/TRANS/WP.29/GRSP/2017/27 (Supplement 3 to R129-02)
- ECE/TRANS/WP.29/GRSP/2017/29 (Supplement 3 to R129-02)
- ECE/TRANS/WP.29/GRSP/2017/30 (Supplement 3 to R129-02)
- ECE/TRANS/WP.29/GRSP/2017/36 (Supplement 3 to R129-02)
- ECE/TRANS/WP.29/GRSP/2017/42 (Supplement 3 to R129-02)
- GRSP-62-21 (Supplement 4 to R129-02)

**03 Series**

- ECE/TRANS/WP.29/GRSP/2017/41 (03 series of amendments (Phase 3) to R129)
- ECE/TRANS/WP.29/GRSP/2017/27 to be included also in 03 Series if agreed
- ECE/TRANS/WP.29/GRSP/2017/30 to be included also in 03 Series if agreed
- ECE/TRANS/WP.29/GRSP/2017/36 to be included also in 03 Series if agreed
- GRSP-62-20 (Supplement 1 to R129-03)
Phase 1 => Principles & Achievements

Phase 1

i-Size

i-Size New Dummies & Performance Criteria & Test Bench Better Compatibility

Impact

Child size

Mandatory

0-15 Months

2017/12/12 62nd GRSP
Phase 2 => Principles & Achievements

Phase 2

Non-Integral Universal

Only for stature ≥ 1 meter

Side Impact Classification using child size i-Size

Booster Seat

Better Compatibility

i-Size Booster Seat

Performance Criteria

Bench Better Compatibility
Phase 3 => Principles

Phase 3

Universal Belted

Universal

Belted

0-15 M

Mandatory

Side Impact Classification using child size

New Dummies & Performance Criteria

Better Compatibility
Phase 3 => Challenges

Do we want to authorize combination of ECRS types?:
1. ISOFIX (including I-Size) & Universal Belted
2. Universal (I-Size Integral ISOFIX, I-Size Booster Seat, Universal Belted) & Specific to vehicle
3. Integral & Non-Integral
4. Rearward & Forward

Do we want to authorize the sales of ECRS “not ready for use”?:
5. Not permanently fixed
   - support leg
   - top tether
   - Shield
   - Backrest
   - Anti-rebound bar
   - ...

Do we want to authorize the use of “add-on” fixing points other than?:
6. ISOFIX anchorages with support leg or top tether for I-Size & ISOFIX products
7. Adult 3 points belt for Universal belted ECRS

Guiding principles
- Avoid misuse
- Avoid confusion for the parents
- Plug & Play system
1. **ISOFIX (including I-Size) & Universal Belted (integral)**
   - Only for Modular Integral ECRS if only one belt route on the module to be used as a stand alone product.

2. **Universal (i-Size Integral ISOFIX, i-Size Booster Seat, Universal Belted) & Specific to vehicle**
   - Only for extension of size range, beyond I-Size size range

3. **Integral & Non-Integral**
   - Only if there is a reversibility of the transformation (the integral restraint system of the child must stay on the ECRS)

4. **Rearward & Forward**
   - ISOFIX or Belted base associated with modules or rotating chair and for belted ECRS only one adult belt route by ECRS

5. **Not permanently fixed**
   - Support leg, Top tether, Backrest & Anti-rebound bar must be assembled when put to the market
   - Shield must be labelled

6. **“add-on” fixing points to ISOFIX anchorages system**
   - No possibility to use ISOFIX anchorage system and Adult safety belt simultaneously for Integral ECRS
   - The product must be type approved in the worst case condition (W/O “add-on”)

7. **“add-on” fixing points to adult 3 points belt for Universal belted ECRS**
   - Low tether anchorage are not yet defined
One belt route

- What is plug and play for belted integral ECRS?
- Try to found a common way to fix the ECRS on the vehicle by the adult safety belt
- Identify clearly the webbing paths for lap belt and diagonal belt

Icons for use on/near belt guide

Icons for use on installation label

A

B

C
Endorsement of Phase 3 by GRSP at its 62nd Session.

Found a new chairman for the IWG ECRS if needed.

Upgrade the current text to suppress any ambiguity for Type Approval Authorities and Technical Services.


Include provisions for booster cushions still in Regulation R44

Repeal the Regulation R44
Next steps

- Continue to study the possible authorised multi-configurations:
  - “One fit all” is perhaps not the best solution
Thank you for your attention

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