Raising Standards for Consumers

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Some findings in recent testing of R44 approved CRS.

Do we want to encourage such solutions in R129 approved ECRS?
Combined Isofix- and belt installation

Group 0+ / 1, semi-universal FWF and RWF
- 2x2 Isofix connectors
- Manufacturer’s instruction: Isofix always together with car seat belt
  (= confusing for consumers)

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Combined Isofix- and belt installation

Suggest for R129:
*Prohibit mandatory supplementary belt installation to integral harness ECRS that are Isofix installed*
Poor patch

Seat broke from base in belted mode (frontal impact)

Manufacturer's solution:
Seat and base connected by tether (loose accessory)

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Suggest for R129:

Don’t allow loose parts that influence crash-test performances positively but are likely not to be (correctly) used by consumers in practise.
Seat can be used in 5 (!) different ways:

- **Integral:**
  - RWF, installed with car belt.
  - FWF (9–18kg) Isofix & Top Tether
  - FWF (9–18kg) installed with car belt
  - FWF (15–25kg) car belt installation + top tether, child in integral harness

- **Non integral:**
  - FWF (15–25kg) non-integral (no harness, child + seat secured with car belt).

*Complicated: misuse risk*
One size fits all: Group 0/1/2/3 CRS

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One size fits all: Group 0/1/2/3 CRS

Misuse risk:
- Several installation modes, applying loose part (wedge) and two different red coloured belt routes
- Not straightforward belt routes

Bulky

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One size fits all: Group 0/1/2/3 CRS

Suggest for R129:
- Allow only one red and one blue belt route
- No ‘kits’
Loose belt clips

Likely to be cut off / not used.
Suggest for R129:
• not allow non-integrated belt clips.

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Loose belt clips

Group 0+

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https://www.youtube.com/watch?v=KP7ZMgK-8z4

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• **RWF:**
  - <18kg: car seat belt
  - <25kg: plus extra fixing belt

• **FWF:** 9-25kg,
  - 9-18kg: car seat belt
  - 9-25kg: plus Top Tether
• For RWF base (‘Basis’) and wedge (‘Keil’) must be attached.
• For kids 15-25kg shoulder pads must be replaced by longer rubber shoulder pads (‘Schulterpolster’)
• RWF installation with fixing belt (‘Befestigungsgurt’) requires car front seat to attach.
• For FWF for kids 15-25 kg a ‘Safe Stop’ (load limiter) must be installed in the harness.
Summing up: Keep it simple!

- Prohibit mandatory combined belt + Isofix installation of integral harness ECRS
- Don’t allow
  - Loose parts that optimise tests performances positively but are unlikely to be (correctly) used by consumers in practise.
  - Non integrated belt clips
- Limit number of:
  - installation modes
  - belt routes
Thank you

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