Universal Booster Seat Gabarit Proposals Comparison with Child Restraint Systems

Why comparing CRS?

- During last IG CRS reference has repeatedly made to Britax Römer KidFix.
- Britax Römer Kidfix is included in the EUNCAP picklist based on the fact that it is a bestseller CRS in EU.
- As reported in IG CRS group for small vehicles e.g. Opel Adam, this seat is too large.
- There are ECE approved CRS for the same child sizes, which fit such small cars, e.g. Takata Picomino Maxi

Since CRS address different child sizes, as reference CRS position the fitment of Q10 dummy has been used for this comparison.
Britax Römer KidFix

Q10 position is fully extended

Takata Picomino Maxi

Q10 position is 1 notch below maximum extended

- Q10 sits very tight in both

Remember:
- ECE-TRANS-WP29-GRSP-2014-07e, Annex 8, Table 2: Q10 size target 17 Seating height (head tilted forward) < 748 +/- 9 mm
- ECE-TRANS-WP29-GRSP-2014-07e, Annex 18: Sitting height of child with Stature of 135 cm, 95% : 744 mm
Height

ISO N1042

Britax Römer KidFix
fully extended

ISO N1068

Takata Picomino Maxi
1 notch below maximum extended
Global Regulations & Certification

GME Product Regulations

GRSP-55-35

Height

Britax Römer KidFix
fully extended

Takata Picomino Maxi
1 notch below maximum extended

Seat Size measured
Fully Extended

fully extended: 850 mm

Q10 Position:
805 mm
fully extended: 820 mm

Correction, April 2015 (Details page 15)
Opel Adam

Britax Römer KidFix

Takata Picomino Maxi

max. extended = 850 mm = NOK

max. extended = 820 mm = OK

Fitment in vehicle is driven by:
- Extended height
- Width and form of the bottom (cushion) of the CRS
Next Pages:
Details on CRS Fitment into Gabarits
BRITAX RÖMER KID FIX in ISO N1042

All extended position

approx. 10mm overlapping

approx. 30mm overlapping
BRITAX RÖMER KID FIX in ISO 1068

All extended position

approx. 20mm overlapping

approx. 8mm overlapping

850

775
BRITAX RÖMER KID FIX in GRSP-55-35

All extended position

approx. 13mm overlapping

approx. 45mm overlapping
TAKATA PICOMINO MAXI in ISO N1042

Maxi is in Q10 position:
- 1 notch below maximum extended

approx. 18mm overlapping
approx. 22mm overlapping
approx. 27mm overlapping
TAKATA PICOMINO MAXI in ISO N1068

Maxi is in Q10 position:
- 1 notch below maximum extended

approx. 32mm overlapping
TAKATA PICOMINO MAXI in GRSP-55-35

Maxi is in Q10 position
- 1 notch below maximum extended

approx. 20mm overlapping
approx. 25mm overlapping
Next Pages: Details on CRS Size
Non extended

- For non extended both have same Size

Britax Römer KidFix

Takata Picomino Maxi
Fully extended

- For fully extended Britax is 30 mm higher
- Britax is 70 mm wider for cushion width
- Takata is 15 mm wider for width of side wings
- Britax is 5 mm wider for headrest width

Please Note: While picture shows Britax fully extended, Takata is shown in non extended position (Q3 position). In this Position the Takata seat has a width of 450 mm for the side wings. The width raises, when the seat is extended. For the Q10 position the width is 495 mm.
Takata has 10 mm more cushion depth
Cushion Height without (with) pressure*

- Britax has 37 mm more cushion height when measured without pressure.
- Britax has 18 mm more cushion height when measured with* pressure.

* Pressure = Weight of Q10