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.
Global Regulations & Certification

GME Product Regulations

Britax Römer KidFix

Q10 position is **fully extended**

Takata Picomino Maxi

Q10 position is **1 notch below maximum extended**

Remember:
- ECE-TRANS-WP29-GRSP-2014-07e, Annex 8, Table 2: **Q10 size target**
  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

June 2014
Height

ISO N1042

Britax Römer KidFix
fully extended

ISO N1068

Takata Picomino Maxi
1 notch below maximum extended
**Height**

**GRSP-55-35**

**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*
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

approx. 10mm overlapping

approx. 30mm overlapping

All extended position
BRITAX RÖMER KID FIX in ISO 1068

approx. 20mm overlapping

approx. 8mm overlapping

All extended position
BRITAX RÖMER KID FIX in GRSP-55-35

approx. 13mm overlapping

approx. 45mm overlapping

All extended position
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
Next Pages: Details on CRS Size
Non extended

- For non extended both have same size.
For fully extended Britax is 30 mm higher

- Britax is 70 mm wider for cushion width
- Britax is 30 mm wider for width of side wings
- Britax is 5 mm wider for headrest width
Cushion Depth

- 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.