

EUROPEAN NEW CAR ASSESSMENT PROGRAMME

Technical Bulletin

Child Restraint Systems for Installation Checks

Version 5.0.1

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Title	Child Restraint Systems for Installation Checks		
Version	5.0.1		
Document Number	TB012		
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Date	7 th February 2022		
Related Documents	Euro NCAP Child Occupant Protection Protocol		
Status	Information		
Application Date	1 st January 2023		

1. Introduction

From 2013 onwards, Euro NCAP has used a selection of popular Child Restraint Systems (CRS) to assess the vehicle's ability to safely and correctly accommodate child restraints. This list contains a sample of widely available, well performing child seats that represent most common types of products available on the European market. The list will be checked annually and updated if seats are no longer available on the market. Each update will occur at the start of the year preceding the year of application.

Euro NCAP does not assess or rate the child seats individually, and although the child restraint systems on the installation list are generally recommended, there are other seats available on the market that provide equal protection.

1.1 Definitions

R129 child statures

45-75 cm: Birth to approx. 12 months 45-105 cm: Birth to approx. 4 years 61-105 cm: approx. 4 months to 4 years 76-105 cm: approx. 15 months to 4 years 100-135 cm: approx. 4 years to 8 years 100-150 cm: approx. 4 years to 12 years

R129 CRS definitions

i-Size universal ISOFIX i-Size booster seat specific vehicle ISOFIX specific vehicle booster seat Universal Belted Specific vehicle Belted Universal booster cushion Specific vehicle booster cushion

2. Child Restraint Systems for Installation Checks

2.1 CRS for Installation Assessment

The CRS to be used in the installation assessment are detailed below. Each CRS will be installed using the installation mode detailed.

CRS	Approval	Description & installation		
1	R129	Universal Belted	B	ISO R2
Maxi-Cosi Pebble		Belt mounted, integral infant carrier		
360	40cm-83cm	Rearward facing		
		Approval No: 030063		
2	R129	i-Size booster seat	B	ISO B2
Britax Römer		Belt mounted booster seat		
Kidfix i-Size	100cm-	8 th adjustment position up from bottom,	135cm	
	150cm	lowest position is #1	stature	
-		Approval No: E1 129R03/04 0061 01		
3	R129	Specific vehicle booster seat	B	Exceeding
Cybex Solution Z	100	Belt mounted, without linear side impact	1 50	ISO B3
i-Fix	100cm-	protection	150cm	
	150cm	Highest adjustment position	stature	
		Approval No: 030036		
4	R129	Specific vehicle booster seat	B I	ISO B3
Cybex Solution Z	K127	ISOFIX mounted, without linear side	D1	150 D5
i-Fix	100cm-	impact protection	135cm	
1-1 IX	150cm	8 th adjustment position up from bottom,	stature	
	150011	lowest position is #1	statute	
		lowest position is #1		
		Approval No: 030036		
5	R129	Specific vehicle booster seat	B I	Exceeding
Cybex Solution Z		ISOFIX mounted, without linear side		ISO B3
i-Fix	100cm-	impact protection	150cm	
	150cm	Highest adjustment position	stature	
	D100	Approval No: 030036	* *	
6	R129	i-Size universal ISOFIX	_IL_	ISO R2
Maxi-Cosi	10	ISOFIX mounted with support leg		
Pearl 360 &	40cm-	Rearward facing		
FamilyFix 360	105cm			
base		Approval No: 030062		
7	R129	i-Size universal ISOFIX	_IL_	ISO F2X
Maxi-Cosi		ISOFIX mounted with support leg		
Pearl 360 &	>15m &	Forward facing		
FamilyFix 360	76cm-	1. 1. 1. 020052		
base	105cm	Approval No: 030062	T T	
8	R129	i-Size universal ISOFIX	_IL_	ISO R2
BeSafe iZi Kid	<i>c</i> 1	ISOFIX mounted with support leg, without		
X3 i-Size	61cm-	SIP+		
(:7: V: 1 VO ' O'	105cm	Rearward facing		
(iZi Kid X2 i-Size	<10.01	Ammound No. 120D 000002		
may also be used)	≤18.0kg	Approval No: 129R-000002		

9	R129	i-Size universal ISOFIX	_ I _ S	ISO F2X
Britax Römer		ISOFIX mounted with top-tether		
Trifix ² i-size	76cm-	Forward facing		
	105cm			
		Approval No: 129R-010015		
10	R129	i-Size universal ISOFIX	B I	ISO B2
BeSafe iZi Flex		ISOFIX mounted		
FIX i-Size	100cm-	Height adjustment set up from the bottom	135cm	
	135cm	with five complete rotations of the	stature	
		adjustment, lowest position is #1.		
		Approval No: 129R-02-000017		

3. Child Restraint Systems for Dynamic Testing

For both child dummies, the requirements detailed in the Euro NCAP COP Assessment protocol, Section 3.1.3 relating to stature, CRS adjustment and integrated CRS must be followed.

3.1 Q6 Dummy

- 3.1.1 The Q6 dummy will be placed in a forward facing CRS only, rearward facing CRS are NOT accepted.
- 3.1.2 The vehicle manufacturer may recommend a CRS for the Q6.
- 3.1.3 Any belt guides, such as SecureGuard, shall only be used providing there is clear information in the vehicle handbook instructing the user to install the CRS with the guide.
- 3.1.4 Any additional adjustments, such as side impact extensions, shall only be used providing there is clear information in the vehicle handbook instructing the user of their use and required position.
- 3.1.5 Where the vehicle manufacturer does not recommend a FWF CRS for a six year old child, the front MPDB and Side AE-MDB impacts will be performed with the Q6 dummy seated in a CRS chosen by the Secretariat from Section 2 (above). It will be installed using the ISOFIX anchorages and adult belt.
- 3.1.6 Where the vehicle offers no ISOFIX anchorages, the Q6 dummy will be seated in a CRS chosen by the Secretariat from Section 2 (above) installed using the adult belt only.

3.2 Q10 Dummy

- 3.2.1 The vehicle manufacturer may recommend a booster cushion for a ten year old child (either stand-alone or as part of a booster seat with detachable backrest).
- 3.2.2 Where the vehicle manufacturer recommends to the public the use of the high back version, the tests will be performed with either the booster cushion only (backrest removed) or a booster cushion from the list below.
- 3.2.3 Any belt guides, such as the SecureGuard, shall only be used providing there is clear information in the vehicle handbook instructing the user to install the CRS with the guide.
- 3.2.4 Any additional adjustments, such as side impact extensions, shall only be used providing there is clear information in the vehicle handbook instructing the user of their use and required position.
- 3.2.5 Where the vehicle manufacturer does not recommend booster cushion, the front MPDB and Side MDB impacts will be performed with the Q10 dummy seated on a booster cushion (only) selected from the list below by the vehicle manufacturer, where no selection is made the Secretariat will choose at random.
- 3.2.6 Q10 Dummy CRS

If a CRS in the list below is fitted with a shoulder belt position guide or clip, it must NOT be used under any circumstance.

• Graco Booster Basic – approval number E11-0444165

The adjustable arm rest shall be positioned to the highest position.

• Nania/OSANN UP - approval number ECE R44: E2 – 049047

• Peg Perego Viaggio 2-3 Shuttle – approval number ECE R44.04: E24 - 0000256

4. Additional Information

4.1 CRS Manufacturer Contacts

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