



Inspection Report No.

ATS-SM-IR-129-09275

Inspection concerning vehicles / components with regard to:

Uniform provision concerning
Enhanced Child Restraint Systems

performed according to

ECE Regulation No. 129

as last amended by

03 series of amendments

of the Economic Commission for Europe

Approval status	
ECE	Number of approval
	E57*129R03/08*0055*00

Inspection Report No.: ATS-SM-IR-129-09275

Of: 02/01/2024



Type: PHENIX 023-01

Manufacturer:



0. General information

0.1. Make (trade name of manufacturer):



0.2. Type: PHENIX 023-01

0.2.1. Variant(s): Not applicable

0.2.2. Commercial description: BUBU II, BUBU, MINI, MINI II, MIKO, MIKO II PUPIL, PUPIL II, RENO, RENO II, WIKING, WIKING II, AROSO, VIVITO, VIVITO II

0.3. Name and address of manufacturer:



0.3.1. Name and address of manufacturer's authorized representative: Not applicable

0.3.2. Production plant(s) address(es): ul. Północna 1, 26-600, Radom, Polska

0.4. No. of the information document: 03/2023 Date: October 2023

0.5. Position of the approval mark: Sticker pasted on the ECRS. See Information Document No. 3/2023

0.6. Vehicle category(ies): Vehicle category with i-Size and Universal seating positions
(or, if not applicable, vehicle categories which the component(s) is (are) suitable for):

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Type: PHENIX 023-01

Manufacturer: [REDACTED]

1. Tested system

1.1. Description of the test system

- 1.1.1 Make: PHENIX
- 1.1.2 Type: PHENIX 023-01
- 1.1.3 Variant / Version: Not applicable
- 1.1.4 Place of marking: See the Information Document No. 3/2023
- 1.1.5 Main characteristics

Category(ies) : Universal booster cushion

ECRS class: Non-Integral

Size Range: 135-150 cm

Maximum occupant mass for i-Size: Not Applicable

ECRS orientation: Forward facing

Anti-rotation device: Not Applicable

Child Restraint Mode: Adult three-point safety belt

Locking-off device type: Not Applicable

Type of retractor: Not Applicable

Belt type: Adult three-point safety belt

Other features: Chair assembly / impact shield

Installation Methods: ~~Rearward facing~~ / Three-point adult safety belt

Backrest positions: Not Applicable

Declaration on toxicity: See information document

Declaration on flammability: See information document

Instruction for use of ECRS in the vehicle: See information document

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Type: PHENIX 023-01

Manufacturer: [REDACTED]

2. Test records

2.1. Equipment for measuring and testing: Used equipment fulfill all requirements of the ECE Regulation No. 129.03

2.2. Conformity with the technical sheet and attached drawings: SI / YES ☒ NO / NO ☐ NR / NA ☐

2.3. Test results

Para.	Parameter	Complies
Clause 4. Markings		
4.1.	ECRS is marked of manufacturer's name, initials or trade mark:	Fulfills
4.2.	ECRS is clear and indelible marked with year of production:	Fulfills
4.3.	Orientation, size range, maximum occupant mass, webbing path, and visibility of these marking.	Fulfills
4.4.	ECRS is permanently attached the warning label of "Airbag" for rearward facing:	Not Applicable
4.5.	ECRS is permanently attached the warning label of no forward-facing for child less than 15 months:	Not Applicable
4.6.	Webbing path	
4.6.1	The adult safety-belt route markings shall be placed on all belt guides and lock off devices. The adult safety-belt route markings shall be at least the width of the adult webbing path.	Fulfills
4.6.2	The correct webbing path indication for Non-integral ECRS	Fulfills
4.6.3	The correct webbing path indication for integral belted ECRS	Not Applicable
4.7.	Marking for integral ECRS including ISOFIX connections attachments	
4.7.1.	for i-Size ECRS, the i-Size Logo shall permanently visible.	Not Applicable
4.7.2.	For Specific Vehicle ISOFIX ECRS, the ISOFIX logo and user instruction label shall permanently visible.	Not Applicable
4.7.3.	An international approval mark	Not Applicable

	If ECRS containing modules, approval module mark shall be permanently attached on ISOFIX base:	Not Applicable
4.7.4.	If ECRS containing modules, module mark shall be permanently attached on the module:	Not Applicable
4.8.	Marking for non-integral ECRS	
4.8.1.	for i-Size booster seat ECRS, the i-Size booster seat user instruction label shall permanently visible:	Not Applicable
4.8.2.	for Specific vehicle booster seat ECRS, the Specific vehicle booster seat user instruction label shall permanently visible:	Not Applicable
4.8.3	for Universal booster cushion ECRS, the user instruction label shall permanently visible:	Fulfills
4.8.4	for specific vehicle booster cushion ECRS, the user instruction label shall permanently visible:	Not Applicable
4.8.5.	Label for size limit for booster cushion ECRS.	Fulfills
4.9.	Marking for ECRS with an impact shield	Not Applicable
4.10.	Any removable insert shall have permanently attached label to indicate the brand, model and size range of ECRS.	Not Applicable
4.11	A Booster seat that converts to a Booster cushion by a removable backrest, shall have a permanently attached label on the backrest, to indicate the brand and model of the ECRS.	Not Applicable
4.12	ECRS shall have a permanently attached label to inform the user of the appropriate method of restraint of the child over the entire stature range declared by the manufacturer.	Fulfills
4.13	Marking for Integral Belted Enhanced Child Restraint System.	Not Applicable
4.14	Additional markings	Not Applicable

6.	General specifications		
6.1.	Positioning and securing on the vehicle		Fulfills
6.1.1.	Positioning and instructions		Fulfills
6.1.2.	Securing of Integral ECRS		
6.1.2.1.	i-Size		Not Applicable
6.1.2.2.	Specific Vehicle ISOFIX		Not Applicable
6.1.2.3.	Universal Belted		Not Applicable
6.1.2.4.	Specific Vehicle Belted		Not Applicable
6.1.2.5	For Belted integral ECRS: Only one belt route and main load bearing contact point		Not Applicable
	Measurement from Cr to load bearing point (≥150 mm)	Left (mm)	Not Applicable
		Right (mm)	Not Applicable
6.1.2.6	Belt remaining on spool (mm) (applicable to Belted Enhanced Child Restraint Systems) (≥150mm)		Not Applicable
6.1.2.7.	Rearward facing ECRS (up to 83 cm as a minimum)		Not Applicable
	Forward facing ECRS (not below 76 cm)		Not Applicable
	Convertible seat in its rearward facing configuration (up to 83 cm)		Not Applicable
6.1.2.8.	An infant-carrier shall be designed to accommodate up to 87 cm as a maximum stature		Not Applicable
6.1.3.	Securing of Non-Integral ECRS		
6.1.3.1	i- Size booster seat and Universal booster cushion		Fulfills
6.1.3.2.	Specific vehicle booster seat and specific vehicle booster cushion		Not Applicable
6.1.3.3.	Booster seat size range		Not Applicable
6.1.3.4.	Measurement from Cr to load bearing	Left (mm)	230

	point (≥ 150 mm)	Right (mm)	230
6.1.3.5.	Securing on the test bench, standard safety belt	Fulfills	
6.1.3.6.	Booster cushion dimensional verification (child head is at or above a horizontal plane at 770 mm vertically from the CR axis when seated on the test bench)	Fulfills; 847 mm	
6.2.	Configuration of the ECRS		
6.2.1.	Configuration requirements	Fulfills	
6.2.1.1.	Required protection	Fulfills	
6.2.1.2.	Easy and quick installation and removal	Fulfills	
6.2.1.3.	Reclined position	Not Applicable	
6.2.1.4.	Buckle position when smallest & largest dummies are installed (Applicable to integral forward-facing ECRS)	Not Applicable	
6.2.1.5.	Angle α and β measured with smallest & largest dummies ($\geq 10^\circ$)	Q10	Left α : 72,10° Right β : 75,40°
6.2.1.6.	Shoulder straps position	Fulfills	
6.2.1.7.	Straps adjusted to avoid discomfort or danger	Fulfills	
6.2.1.8.	Lap strap adjustment	Fulfills	
6.2.1.9.	Lap strap during dynamic test	Fulfills	
6.2.1.10.	Dynamic test with conditioning	Fulfills	
6.2.2.	Design requirements		
6.2.2.1.	Sharp edges (to vehicle parts or occupant)	Fulfills	
6.2.2.2.	Rigid parts sharp edges (to straps)	Fulfills	
6.2.2.3.	Separable parts	Not Applicable	
6.2.2.4.	Special needs restraint	Not Applicable	

6.2.2.5.	Child Restraint System size range use	Fulfills (135-150 cm)
6.2.2.6.	Inflatable elements	Not Applicable
6.3.	ECRS specification	
6.3.1.	Material	Fulfills. See Information Document No. 03/2023
6.3.1.1.	Toxicity in conformity with EN 71-3:2019 – Received declaration	Not Applicable (size range above 100 cm)
6.3.1.2.	Flammability in conformity with EN 71-2:2011 – Received declaration	Fulfills. See Information Document No. 03/2023
6.3.2.	General characteristics	Fulfills.
6.3.2.1	Internal geometric characteristics	Conform / not conform See Appendix 2
6.3.2.2	External dimensions	Fulfills.
6.3.2.3	Mass (Integral ECRS)	
	The mass of an integral ISOFIX Enhanced Child Restraint System (including inserts) combined with the mass of the largest child intended to use the Enhanced Child Restraint System shall not exceed 33 kg.	Not Applicable
	For module systems the combined mass of the module & base shall be recorded.	Not Applicable
6.3.3.	ISOFIX attachments	Not Applicable
6.3.3.1	Type	Not Applicable
6.3.3.2	Dimensions	Not Applicable
6.3.3.3	Partial latching indication	Not Applicable
6.3.4.	ISOFIX ECRS top tether strap specifications	Not Applicable
6.3.4.1	The top tether connector shall be ISOFIX top tether hook as shown in Figure 3(c), or similar devices that fit within the envelope given by Figure 3(c) of regulation.	Not Applicable
6.3.4.2	The ISOFIX top tether strap shall be supported by webbing (or its equivalent), having a provision for adjustment and release of tension.	Not Applicable

6.3.4.2.1	ISOFIX Top tether strap length ISOFIX Enhanced Child Restraint System top tether strap length shall be at least 2,000 mm.	Not Applicable
6.3.4.2.2	The ISOFIX top tether strap or the ISOFIX Enhanced Child Restraint System shall be equipped with a device that will indicate that all slack has been removed from the strap. The device may be part of an adjustment and tension relieving device.	Not Applicable
6.3.4.2.3	Engagement dimensions for ISOFIX top tether hooks are shown in Figure 3(c).	Not Applicable
6.3.5.	i-Size ECRS support-leg and support-leg foot requirements	Not Applicable
6.3.5.1	Support-leg and support-leg foot geometrical requirements	Not Applicable
6.3.5.1.	The support leg, including its attachment to the Enhanced child restraint systems and the support-leg foot shall lie completely within the support leg dimension assessment volume (see also figures 1 and 2 of annex 19 of this Regulation), which is defined as follows:	Not Applicable
6.3.5.1.(a)	In width by two planes parallel to the X'-Z' plane separated by 200 mm, and centred around the origin; and	Not Applicable
6.3.5.1.(b)	In length by two planes parallel to the Z'-Y' plane and positioned at distances of 585 mm and 695 mm forward of the origin along the X' axis; and -> Distances in X	Not Applicable
6.3.5.1.(c)	In height by a plane parallel to the X'-Y' plane, positioned at a distance of 70 mm above the origin and measured perpendicular to the X'-Y' plane. Rigid, non-adjustable parts of the support leg shall not extend beyond a plane parallel to the X'-Y' plane, positioned at a distance of 285 mm below the origin and perpendicular to the X'-Y' plane. -> Height in Z	Not Applicable
6.3.5.1	The support-leg may protrude the support-leg dimension assessment volume, providing it remains within the volume of the relevant CRF. If a gauge or fixture is used to verify the required dimensions, instead of recording precise measurements, verification photos of the physical check shall be provided	Not Applicable
6.3.5.2	Where incremental adjustment is provided, the step between two locked positions shall not exceed 20 mm.	Not Applicable

6.3.5.2	The support leg foot assessment volume is defined as follows:	Not Applicable
6.3.5.2. (a)	In width by two planes parallel to the X'-Z' plane, separated by 200 mm, and centred around the origin; and	Not Applicable
6.3.5.2. (b)	In length by two planes parallel to the Z'-Y' plane and positioned at distances of 585 mm and 695 mm forward of the origin along the X' axis; and -> Distances in X	Not Applicable
6.3.5.2 (c)	In height by two planes parallel to the X'-Y' plane positioned at distances of 285 mm and 540 mm below the origin along the X' axis. -> Height in Z	Not Applicable
6.3.5.1	Support-leg and support-leg foot geometrical requirements	Not Applicable
6.3.5.2	It shall be permissible for the support-leg to be adjustable beyond the height limits in the Z' direction (as indicated by key 6 in Figure 3 of Annex 19), providing that no parts extend beyond the limiting planes in the X' and Y' directions.	Not Applicable
6.3.5.3	Support-leg foot dimensions	Not Applicable
6.3.5.3.	The dimensions of the support-leg foot shall meet the following requirements:	Not Applicable
6.3.5.3. (a)	Minimum support-leg contact surface shall be 2,500 mm ² , measured as a projected surface 10 mm above the lower edge of the support-leg foot (see Figure 3(d));	Not Applicable
6.3.5.3. (b)	Minimum outside dimensions shall be 30 mm in the X' and Y' directions, with maximum dimensions being limited by the support-leg foot assessment volume;	Not Applicable
6.3.5.3. (c)	Minimum radius of the edges of the support-leg foot shall be 3.2 mm.	Not Applicable
	If a gauge or fixture is used to verify the required dimensions, instead of recording precise measurements, verification photos of the physical check shall be provided	Not Applicable
6.4.	Control of marking	Fulfills
6.4.1.	Control of marking is according to paragraph 4.	Fulfills
6.5.	Control of instructions on installation and the instructions for use	

