Submitted by the expert from CLEPA

Informal document **GRSP-57-07-Rev.1**
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agenda item 7)

Proposal for Supplement 6 to the 06 series of amendments to Regulation No. 16 (Safety-belts)

The text reproduced below was prepared by the expert from CLEPA .The modifications to the current text of the Regulation are marked in bold or strikethrough characters

I. Proposal

Paragraph 8.3.6., amend to read*:*

"8.3.6. Any i-Size seating position shall allow the installation of the ISOFIX child restraint fixtures "ISO/F2X" (B1), "ISO/R2" (D), **"L1" (F) or "L2" (G)** and the support leg installation assessment volume as defined in Appendix 2 to Annex 17.

Deleted: and

The support leg installation assessment volume is characterized as follows (see also Annex 17, Appendix 2, Figures 8 and 9, to this Regulation):

(a) Lateral limitation:

By two planes parallel to and 100 mm apart from the median longitudinal plane of the child restraint fixture installed in the respective seating position;

(b) Forward limitation:

By a plane perpendicular to the plane given by the child restraint fixture bottom surface and perpendicular to the median longitudinal plane of the child restraint fixture, 695 mm apart from the plane passing through the centerlines of the ISOFIX lower anchorages and being perpendicular to the CRF bottom surface;

(c) Rearward limitation:

(i) Above the level of the bottom surface of the child restraint fixture by the front surface of the child restraint fixture, and

(ii) Below the level of the bottom surface of the child restraint fixture by a plane perpendicular to the plane given by the child restraint fixture bottom surface and perpendicular to the median longitudinal plane of the child restraint fixture, 585 mm apart from the plane passing through the centerlines of the ISOFIX lower anchorages and being perpendicular to the CRF bottom surface;

(d) Height limitation:

(i) Above the level of the bottom surface of the child restraint fixture by a plane which is parallel to the child restraint bottom surface and 85 mm above this surface, and

(ii) Below the level of the bottom surface of the child restraint fixture by the upper surface of the vehicle floor (incl. trim, carpet, foam, etc.).

The pitch angle used for the geometrical assessment above shall be as measured in paragraph 5.2.3.4. of Regulation No. 14.

There shall be no interference between the support leg installation assessment volume and any vehicle part.

Compliance with this requirement can be proven by a physical test or computer simulation or representative drawings."

Annex 17 – Appendix 2,

Paragraph 4, amend to read:

"4. ISOFIX child restraint system size classes and fixtures

A – ISO/F3: Full-Height Forward Facing toddler CRS

B – ISO/F2: Reduced-Height Forward Facing toddler CRS

B1 – ISO/F2X: Reduced-Height Forward Facing toddler CRS

C – ISO/R3: Full-Size Rearward Facing toddler CRS

D – ISO/R2: Reduced-Size Rearward Facing toddler CRS

E – ISO/R1: Rearward Facing infant CRS

F – ~~ISO/~~ **L1**~~:~~ Left Lateral Facing position CRS (carry-cot)

G – ~~ISO/~~ **L2**~~:~~ Right Lateral Facing position CRS (carry-cot)

The fixtures below shall be constructed with a mass between 5 and 15 kg and shall be of suitable durability and stiffness to satisfy the functional requirements.

Mass group	*ISOFIX size class*	*Fixture (CRF)*
0 – up to 10 kg	F	~~ISO/~~ **L1**
	G	~~ISO/~~ **L2**
	E	ISO/R1
0+ - up to 13 kg	C	ISO/R3
	D	ISO/R2
	E	ISO/R1
Section 1.02I - 9 to 18 kg	A	ISO/F3
	B	ISO/F2
	B1	ISO/ F2X
	C	ISO/R3
	D	ISO/R2

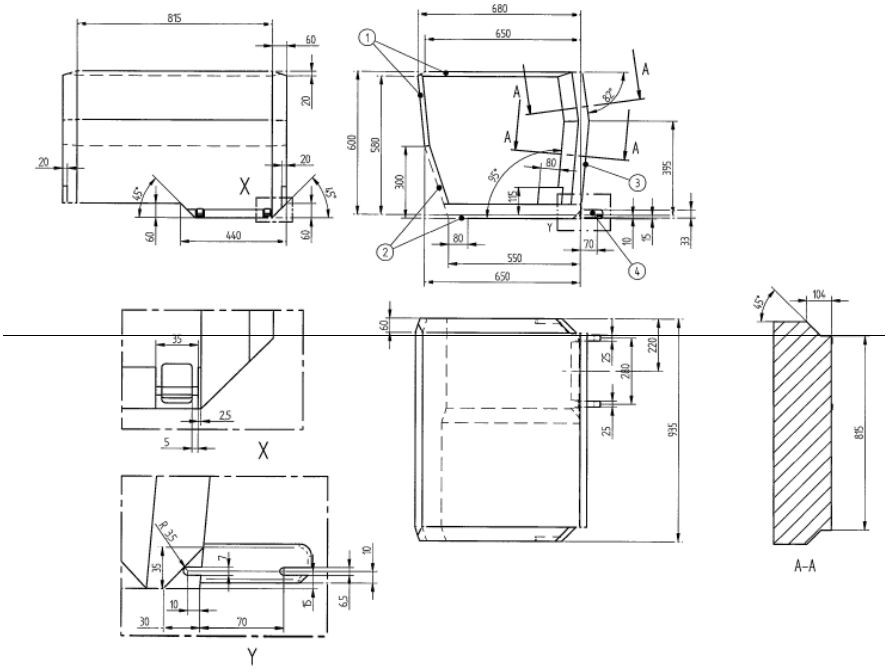
"

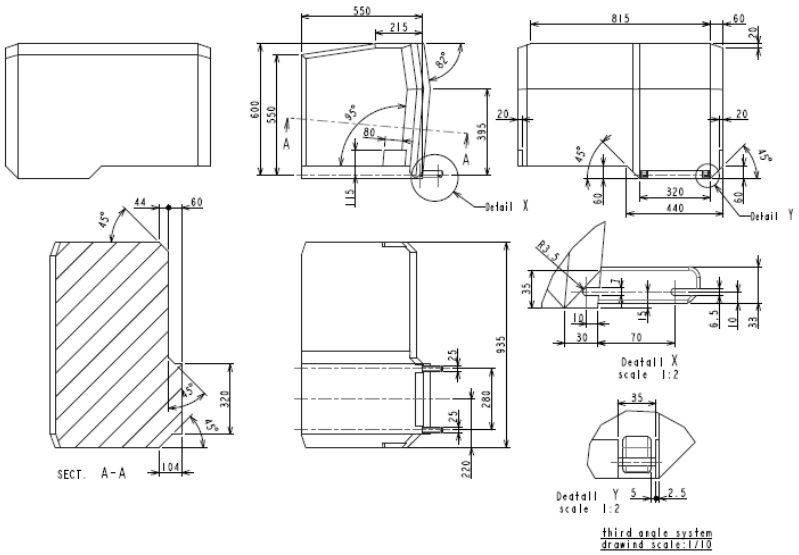
Paragraph 4.7., amend to read:

"4.7. Lateral facing child restraint systems envelope

Figure 7

Envelope dimensions for lateral facing position CRS – ~~ISO/~~ L1- ISOFIX SIZE CLASS F or symmetrically opposite – ~~ISO/~~ L2 – ISOFIX CLASS G





Key

1 Limits in the rearward and upwards directions
2 Dashed line marks area where a support leg, or similar, of a specific vehicle CRS is allowed to protrude.
3 The backwards limitation (to the right in the figure) is given by the forward-facing envelope in Figure 2
4 Further specifications of the connector area are given in ISO 13216-1, Figures 2 and 3.

Annex 17 – Appendix 3, Table 2, amend to read:

Table 2
Table of vehicle handbook information on ISOFIX child restraint systems installation suitability for various ISOFIX positions

Mass Group	*Size class*	*Fixture*	*Vehicle ISOFIX positions*					
			Front passenger	*Rear outboard*	*Rear centre*	*Intermediate outboard*	*Intermediate centre*	*Other sites*
Carrycot	F	~~ISO~~/L1						
	G	~~ISO~~/L2						
		(1)						
0 – up to 10 Kg	E	ISO/R1						
		(1)						
0+ – up to 13 kg	E	ISO/R1						
	D	ISO/R2						
	C	ISO/R3						
		(1)						
I – 9 to 18 kg	D	ISO/R2						
	C	ISO/R3						
	B	ISO/F2						
	B1	ISO/F2X						
	A	ISO/F3						
		(1)						
I I – 15 to 25 kg		(1)						
III – 22 to 36 kg		(1)						

(1) = For the CRS which do not carry the ISO/~~XX~~ size class identification (A to G), for the applicable mass group, the car manufacturer shall indicate the vehicle specific ISOFIX child restraint system(s) recommended for each position.

Key of letters to be inserted in the above table

IUF = Suitable for ISOFIX forward child restraints systems of universal category approved for use in the mass group

IL = Suitable for particular ISOFIX child restraint systems (CRS) given in the attached list. These ISOFIX CRS are those of the "specific vehicle", "restricted" or "semi-universal" categories.

X = ISOFIX position not suitable for ISOFIX child restraint systems in this mass group and/or this size class.

II. Justification

1. Completion of missing Integral fixtures for Regulation 129. Full explanations are referred to GRSP-57-09.