

PROPOSAL FOR AMENDMENTS TO i-size REGULATION (CHILD RESTRAINT SYSTEM)

Note: The text reproduced below was prepared by the expert from CLEPA in order to better define bench foam used in this new regulation.

I. Proposal

Annex 6 –Description of the trolley:

- 3.1.5. the back and the seating shall be covered with polyurethane foam, the characteristics of which are given in Table 1. The dimensions of the cushion are given in Appendix 1 to this annex;

Table 1

Replace”

Density according to ISO 845 (kg/m ³)	[43]
Bearing strength according to ISO 2439B (N)	
p – 25 per cent	[125]
p – 40 per cent	[155]
Bearing strength factor according to ISO 3386 (kPa)	[4]
Elongation at rupture according to ISO 1798 (per cent)	[180]
Breaking strength according to ISO 1798 (kPa)	[100]
Compression set according to ISO 1856 (per cent)	[3]

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By new table1 :”

	Standard	Value	Unit
density	EN ISO 845	68-74	Kg/m3
Compression resistance	EN ISO 3386/1 (40% compression)	13	kPa
Indentation Load Deflection (ILD)	EN ISO 2439B (40% compression)	500 (+/15%)	N
Tensile strenght	EN ISO 1798	≥ 150	kPa
Ultimate Elongation	EN ISO 1798	≥ 120	%
Compression Set	EN ISO 1856 (22hr/50%/70°C)	≤ 3	%

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II. Justification

The current table 1 describes former R44 foam. The informal group decided to replace R44 bench by the one defined during the NPACS project. The new table 1 defines the NPACS foam which was used by several labs during the dynamic evaluation phase of this new regulation.
