Putting Booster Cushions into R129
PHASE II INCLUSIONS

• Meeting 61 CLEPA received a clear statement on the scope of the work in Phase III.

• The original terms of reference of the Informal Group required Phase II to extend Regulation No. 129 to non-integral child restraints.
  – In order to progress the work the priority was given to booster seats only.
  – This left non-integral shield systems and booster cushions to be addressed

• The Chair concluded Phase III was intended for belt-attached integral systems and welcomed proposals to amend Phases I and II for non-integral shields and for booster cushions.
**Booster Cushions**

1. **Compatibility**
   - Reference to ISO B2 fixture

2. **Provision of equivalent protection to the child in side impact, as is provided to the adult**
   - Placing child head height into the region of the 150cm tall female adult

3. **Minimising the inappropriate use of Booster Cushions**
   - Minimum child height requirement >125cm
**Booster cushions**

- **Height Check**
  - Booster cushion to put child’s head to the height of HIII 5th percentile female
  - Dynamic testing provides upper head limit
  - Build on Dorel procedure in CRS-47-09e
  - Simplify equipment for procedure
  - Assessment with Q6 dummy on test bench (or equivalent structure).
Seated height of 5\textsuperscript{th} percentile child with stature 125cm is 63 cm

Seated height of Q6 is 60 cm

Need 3 cm compensation, where Q6 is shorter
SIMPLE ASSESSMENT WITH Q6 ATD

HILL 5th

77 cm

3cm spacer
• Booster to require child min height of 125 cm
• Child on booster cushion to sit as minimum at HIII 5th percentile female height
• Child benefits from the same protection provided to the adult (no side impact test on cushion in R129)
• Q6 can be used on the test bench to assess minimum height of booster cushion
• Child maximum height controlled during dynamic testing