

IG on Child Restraints Systems

Dynamic test - Side Impact

Test bench

- Sled test
 - Fixed door in rearward or forward facing position
 - Sliding ECE-R 44 test bench
 - Sliding CRS fixation

Test procedure

- Pulse according to ISO
 - Delta-v 25 km/h
 - Delta-v corridor (acceleration 10 to 14 g)

IG on Child Restraints Systems

Dynamic test - Side Impact

Test set-up

- Door position
 - Distance “X” between centre of head and door still to evaluate
 - Angle “ α ” between door and centre line of CRS still to evaluate

- Door dimension and surface
 - Height 500 mm above CR-point
 - Upper edge horizontal
 - Lower and rearward edge in such a way that test bench keeps sliding
 - Rigid door padded according ISO

IG on Child Restraints Systems

Dynamic test - Side Impact

Test set-up

- ECE-R 44 test bench
 - sliding in sled direction (250 mm or to be defined)
 - parallel with sled direction
 - sled mass defined (today existing sleds +x kg)
- CRS fixation for belt and ISOFIX anchorage as well
 - sliding in sled direction (200 mm or to be defined)

IG on Child Restraints Systems

Dynamic test - Side Impact

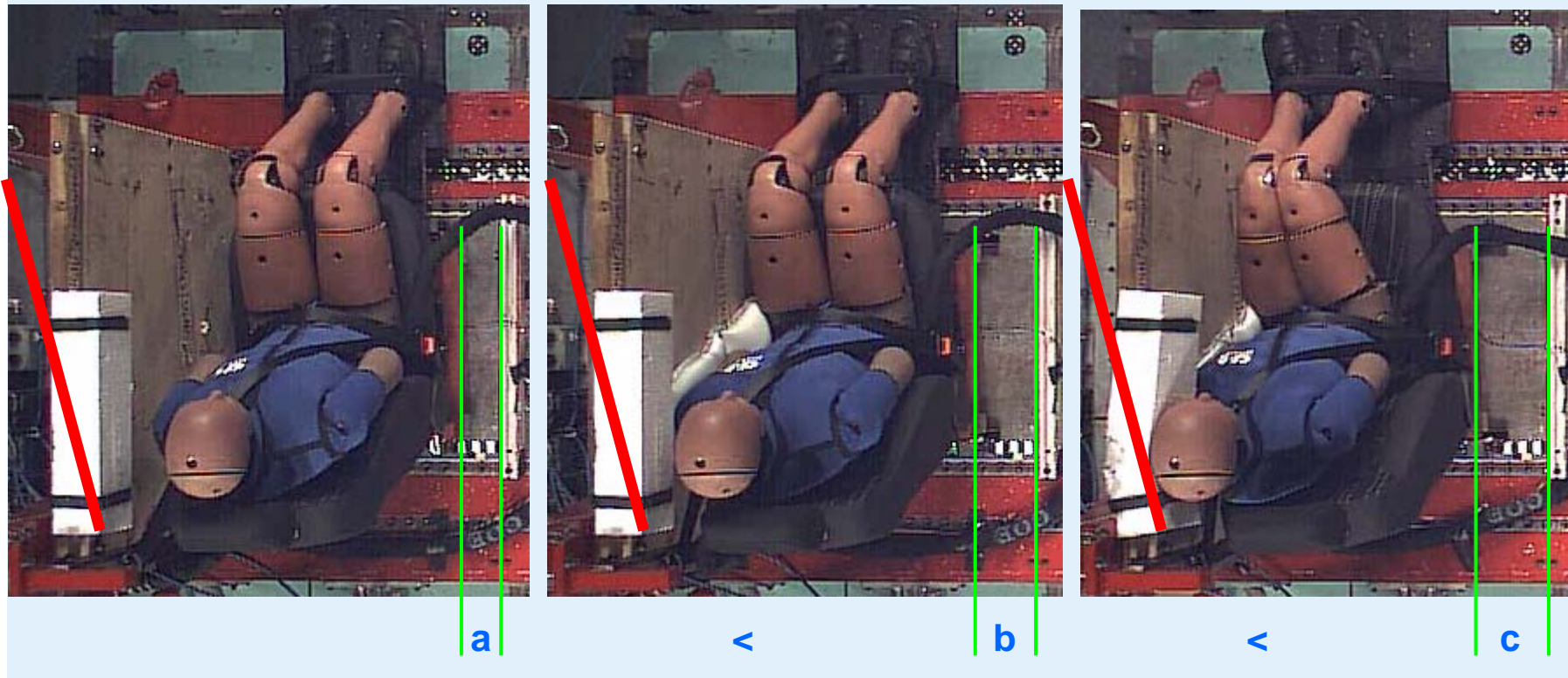


Source: Recaro GmbH & Co. KG



IG on Child Restraints Systems

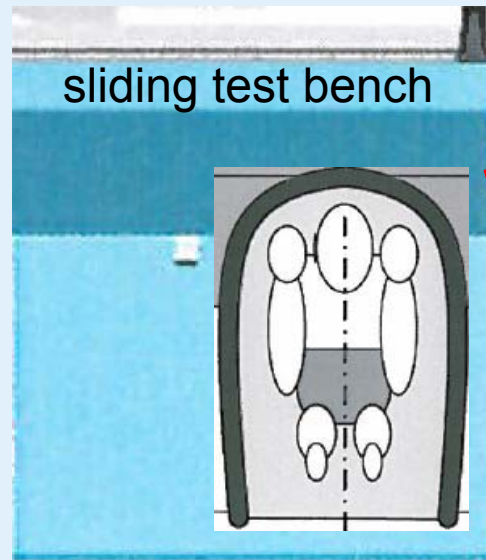
Dynamic test - Side Impact



IG on Child Restraints Systems

Dynamic test - Side Impact

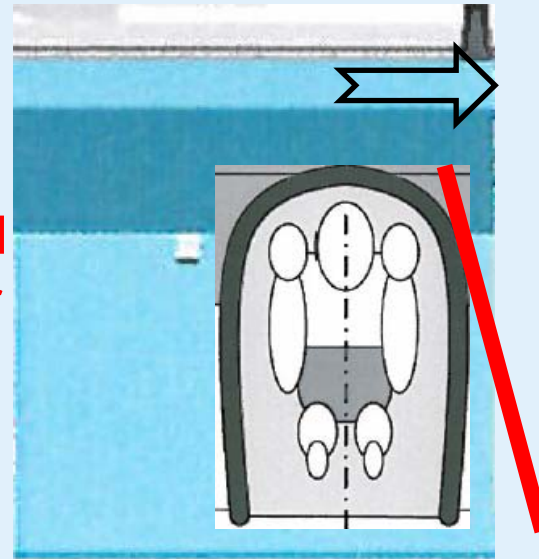
starting position



sliding CRS fixation

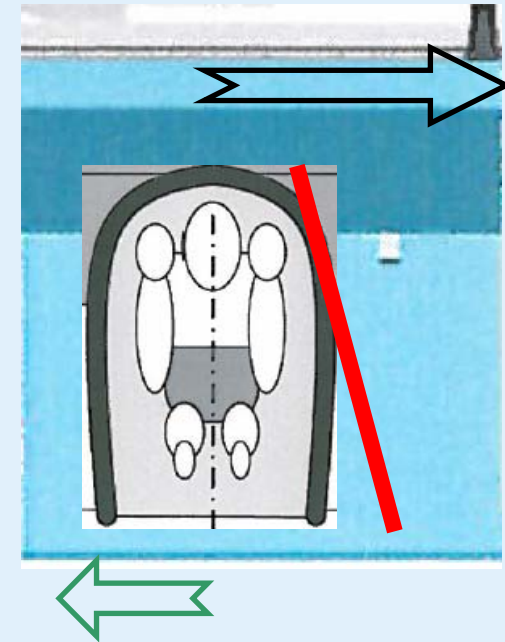
fixed door

first contact

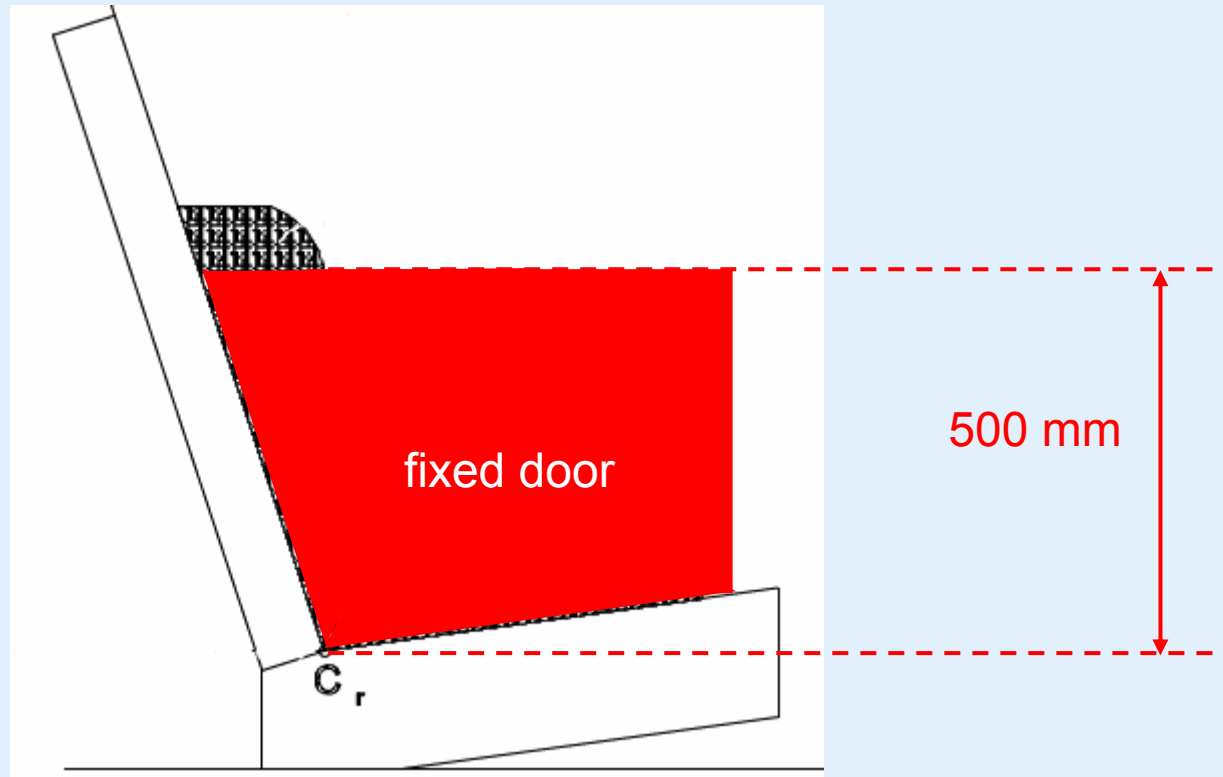


start of CRS sliding

max. intrusion

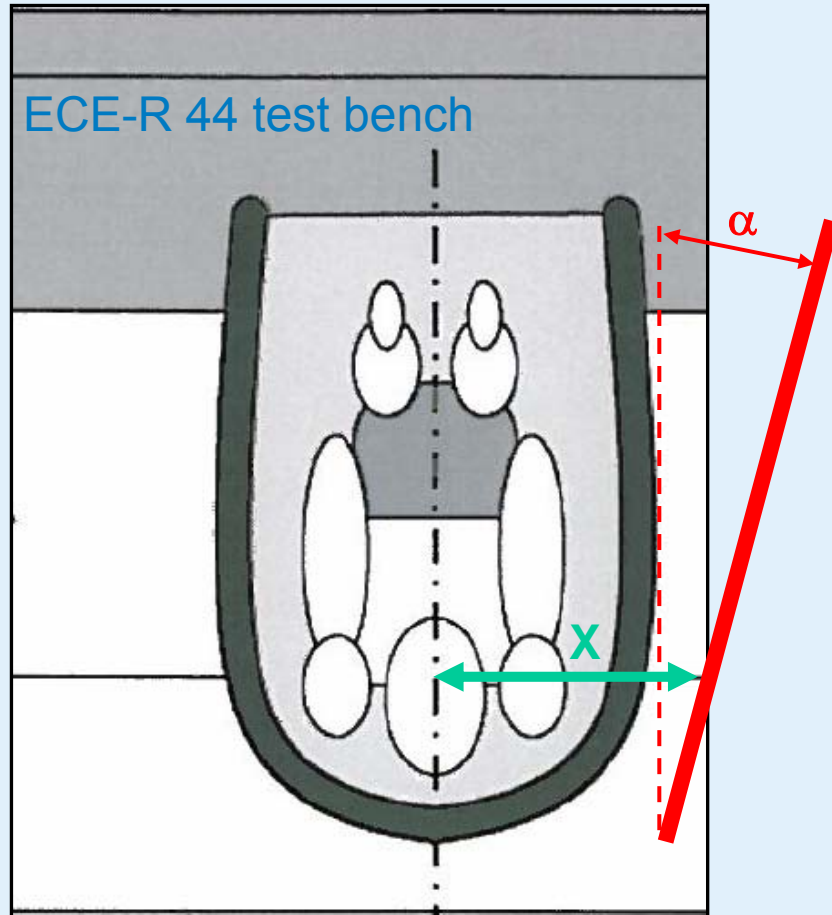


IG on Child Restraints Systems



IG on Child Restraints Systems

rearward facing



forward facing

