Sleeper coaches

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Sleeper coaches in Denmark: brief history
2 serious accidents in 2004
Tightened requirements
Restraint system for horizontal use
How about a safety bag?
Testing the safety bag
Parachute-type belt
International rules on sleeper coaches

- Upright position (as seat): existing regulations must be complied with (seat, seat belts and anchorages)

- Horizontal position:
  - Comfortable restraint system must be provided.
  - Similar strength requirements to normal seats.

- The restraint system itself: how do we test it? Do we need a special dummy and test procedure?
Thank you for your attention!