

# DAIMLER

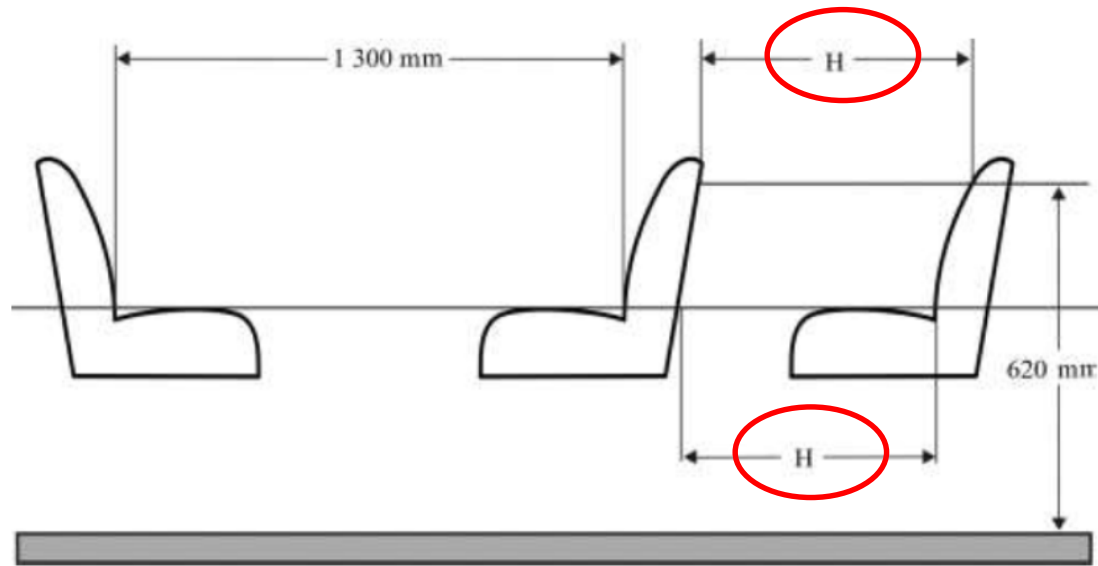
Child Restraint Systems (CRS) in Buses & Coaches  
Possible influence on number of seating places

Informal Group STCBC

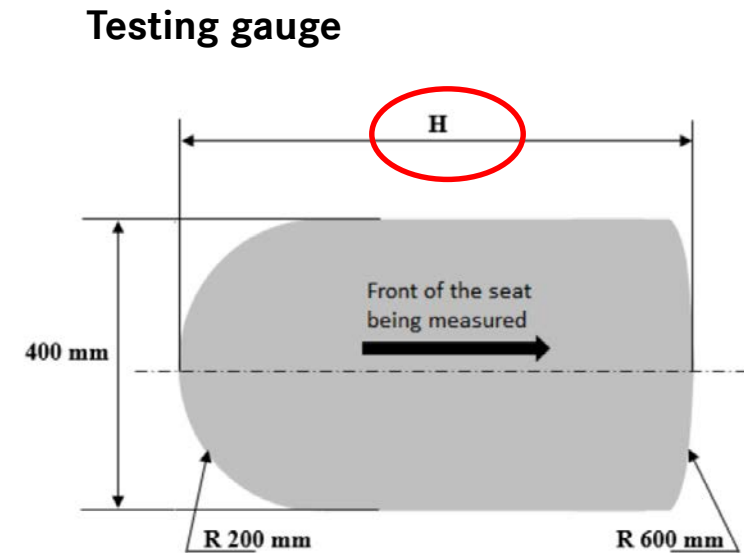
Michael Becker, 28.10.2020



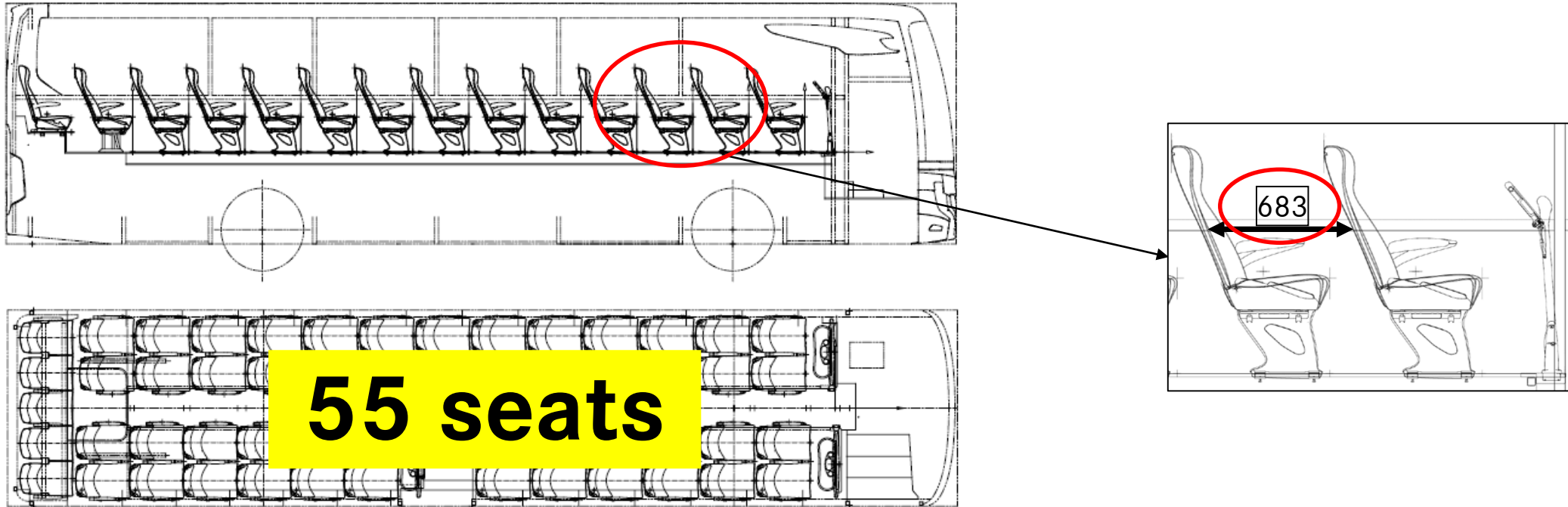
# UN R 107 requires a minimum seat spacing of 680 mm for classes II and III (Annex 3, para 7.7.8.4)



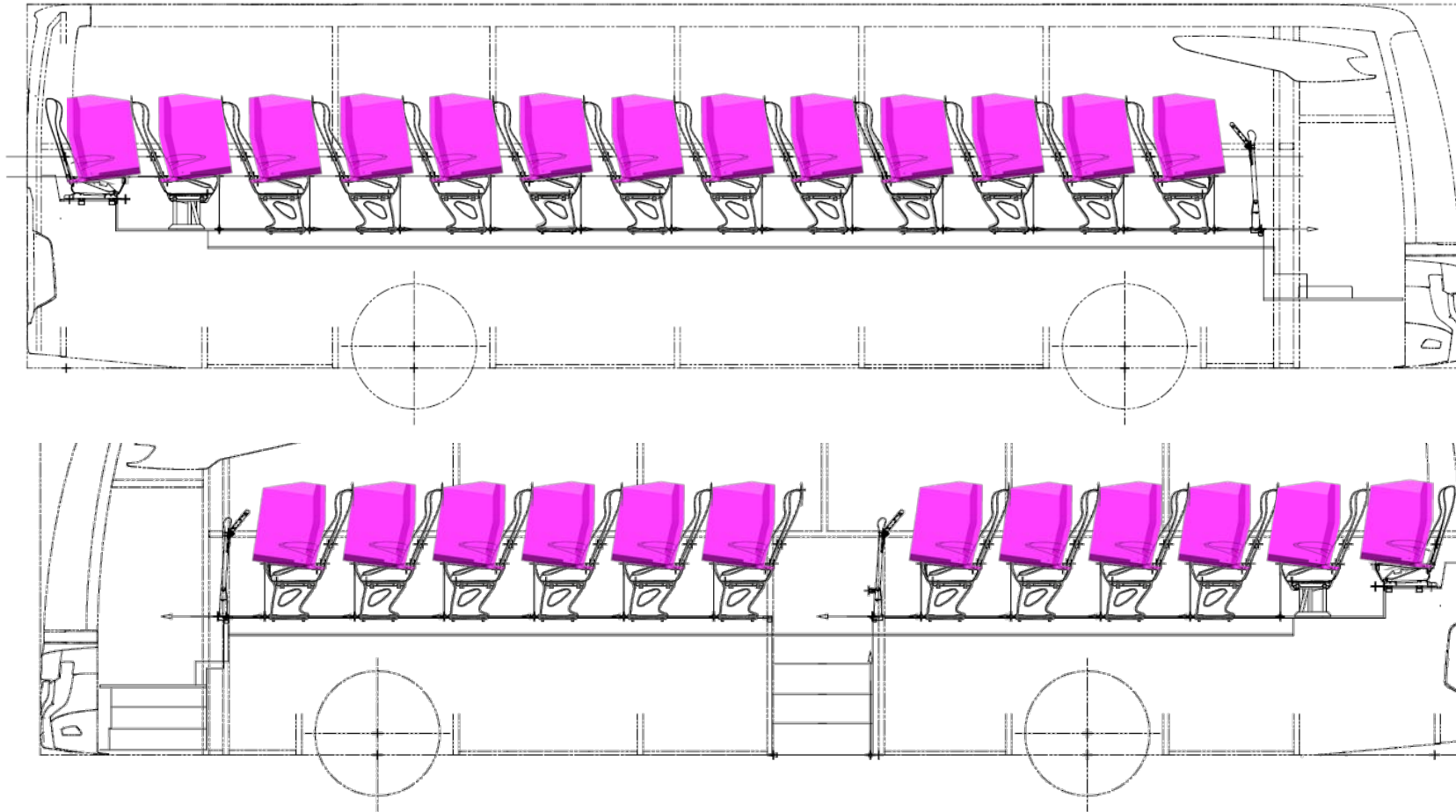
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Classes I, A and B	650 mm
Classes II and III	680 mm



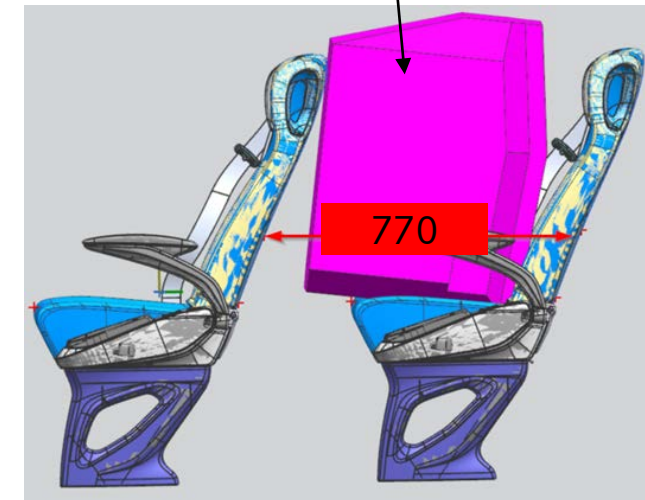
**A standard seat layout for a 12,3 m coach offers 55 seats based on the required minimum seat spacing**



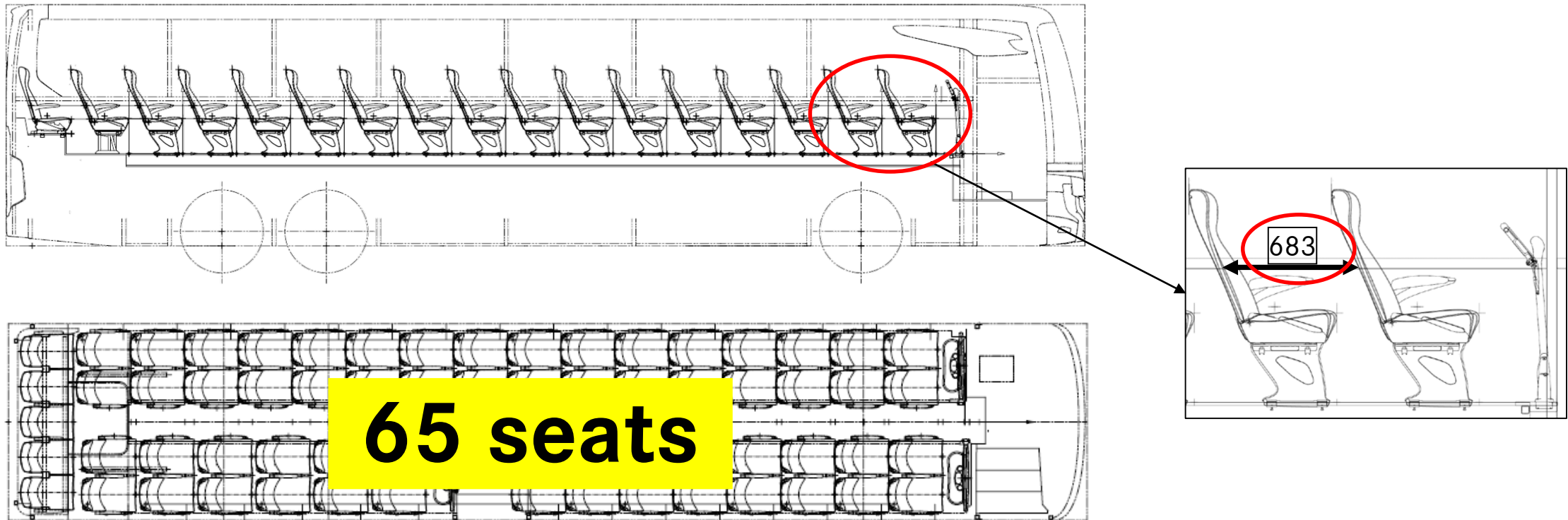
# Covering UN R 16 envelope dimensions of CRS will increase the seat spacing to 770 mm and will lead to a loss of 4 seats in the vehicle



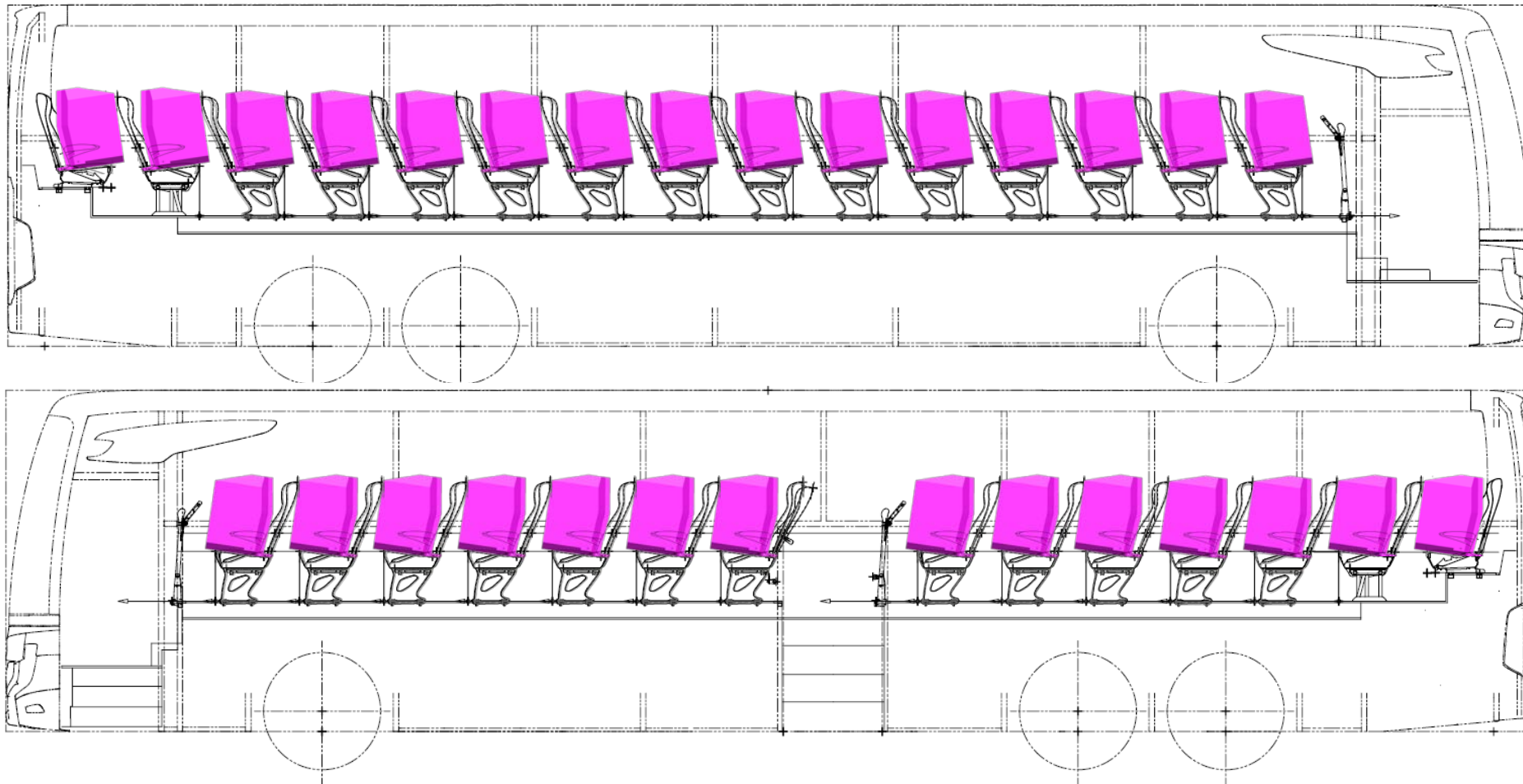
ECE-R 16/07 Annex17  
CRS envelope dimensions  
ISOFIX SIZE CLASS A



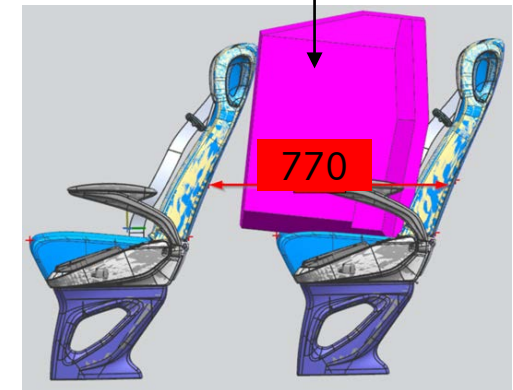
# A standard seat layout for a 13,1 m coach offers 65 seats based on the required minimum seat spacing



# Covering UN R 16 envelope dimensions of CRS will increase the seat spacing to 770 mm and will lead to a loss of 6 seats in the vehicle



ECE-R 16/07  
Annex 17  
CRS envelope  
dimensions ISOFIX  
SIZE CLASS A



**Covering current requirements of testing gauges for CRS has significant influence on the number of seats that can be fitted to the vehicle.**

**Open questions:**

- **Number of places in the vehicle to be covered?**
- **Type of testing gauge to be covered?**