

RESPONSE FROM AUTHORS – ON FIRE DEVELOPMENT IN DOUBLE DECKER BUSES

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It is interesting to receive such constructive comments. The main objective of this project is to study smoke filling in a bus model with small fire. Therefore, indoor aerodynamics induced by a pre-flashover fire was focused on. Flashover fire was not included in our tests. The model framework was welded with angle iron with steel sheets of 0.5 to 0.7 mm thick riveted on. To observe smoke movement, several steel plates were replaced by glass panels. Therefore, burning a flashover fire would destroy the model.

Burning a real-size bus with flashover will give heat release rate of over 10 MW. A 1/10 scale model might not be having 1 MW as seen from references [1]. This part will be studied if there is further financial support.

Finally, thermocouples in the tests were: K type, bare, diameter 0.5 mm.

REFERENCES

1. R.D. Peacock, P.A. Reneke, R.W. Bukowski and V. Babrauskas. "Defining flashover for fire hazard calculations", *Fire Safety Journal*, Vol. 32, No. 4, pp. 331-345 (1999).