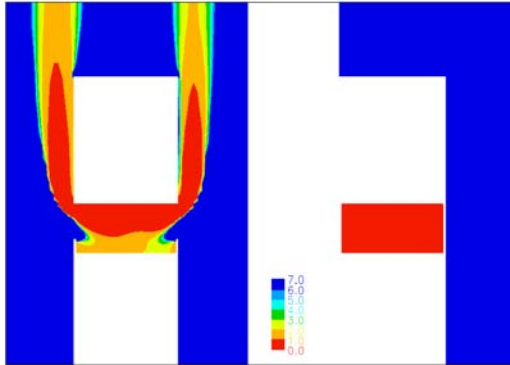




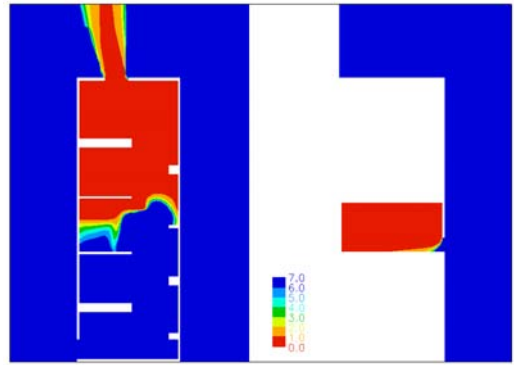
Smoke Ventilation of Common Access
Areas of Flats and Maisonettes
Appendix Eiii – Selected 'visibility distance'
contours for CFD 'corridor & lobby'
scenarios; 1 MW fire and 0.5 m dwelling,
lobby & stair door openings

The authors of this report are employed by BRE. The work reported herein was carried out under a Contract placed by the ODPM. Any views expressed are not necessarily those of the ODPM.

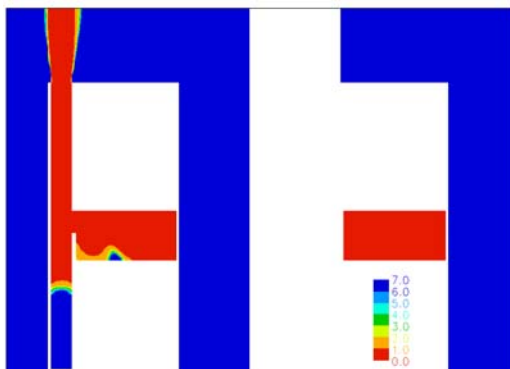
bre



Lobby: L: 1.5m high-level wall vent
R: 1.5m high-level wall vent
Mean temp in occupied space = 36°C



Stair: Top and bottom vent

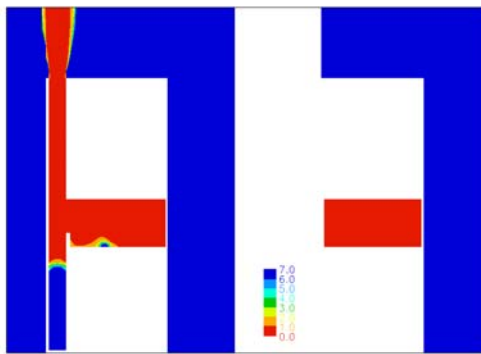


Lobby: L: Natural closed-base, 1m² shaft
(1 m² high-level vent to lobby)
R: No vent
Mean temp in occupied space = 50°C

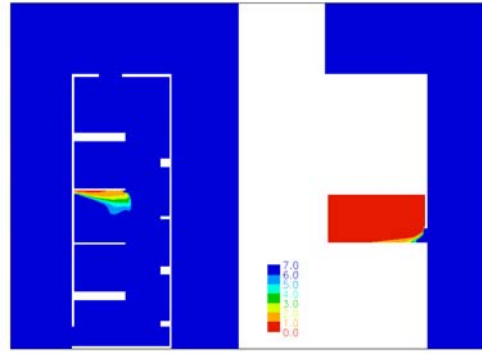
NO SMOKE IN STAIR

Stair: Top and bottom vent

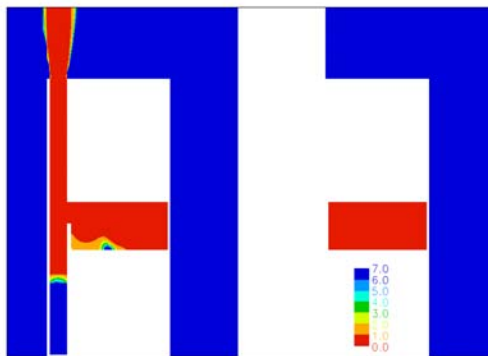




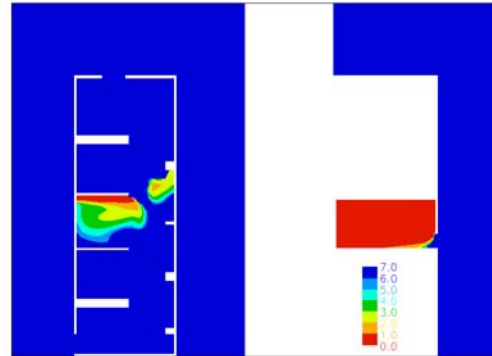
Lobby: L: Natural closed-base, **0.75m²** shaft
 (1.3 m² high-level vent to lobby)
 R: No vent
Mean temp in occupied space = 53°C



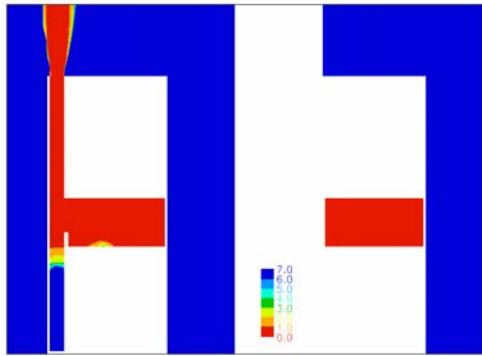
Stair: Top and bottom vent



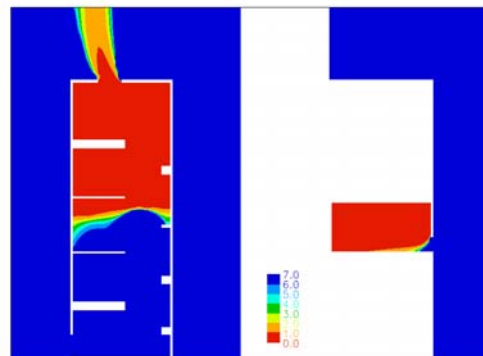
Lobby: L: Natural closed-base, **0.75m²** shaft
 (0.85 m² high-level vent to lobby)
 R: No vent
Mean temp in occupied space = 48°C



Stair: Top and bottom vent



Lobby: L: Natural closed-base, 0.5m^2 shaft
(1 m^2 high-level vent to lobby)
R: No vent
Mean temp in occupied space = 53°C



Stair: Top and bottom vent