

FISMO TEAM

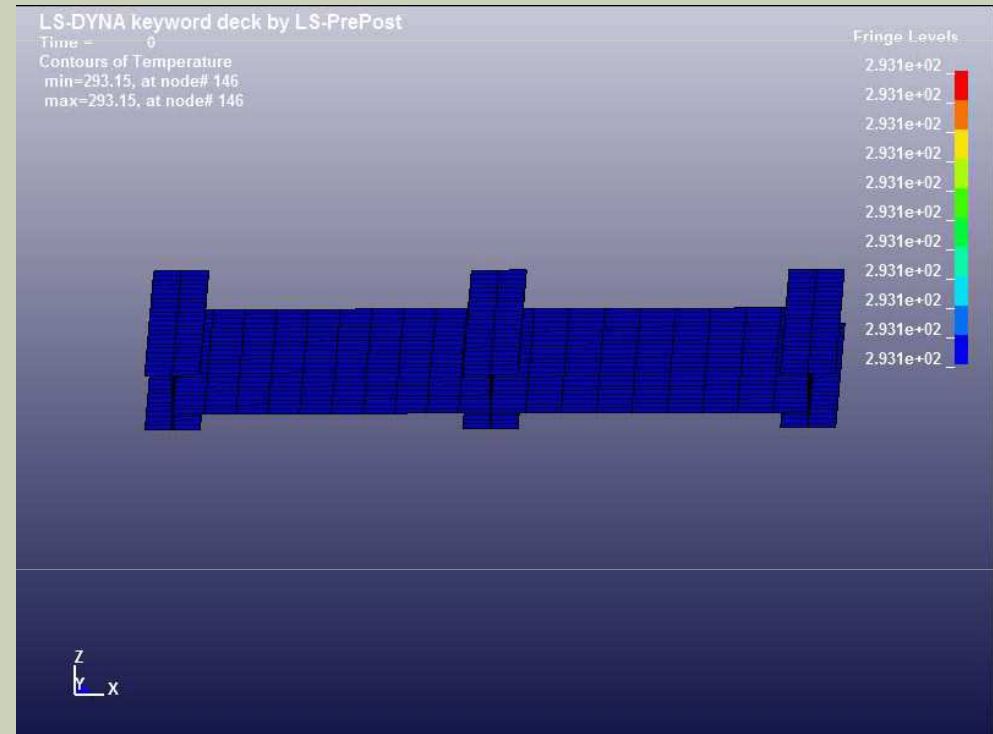
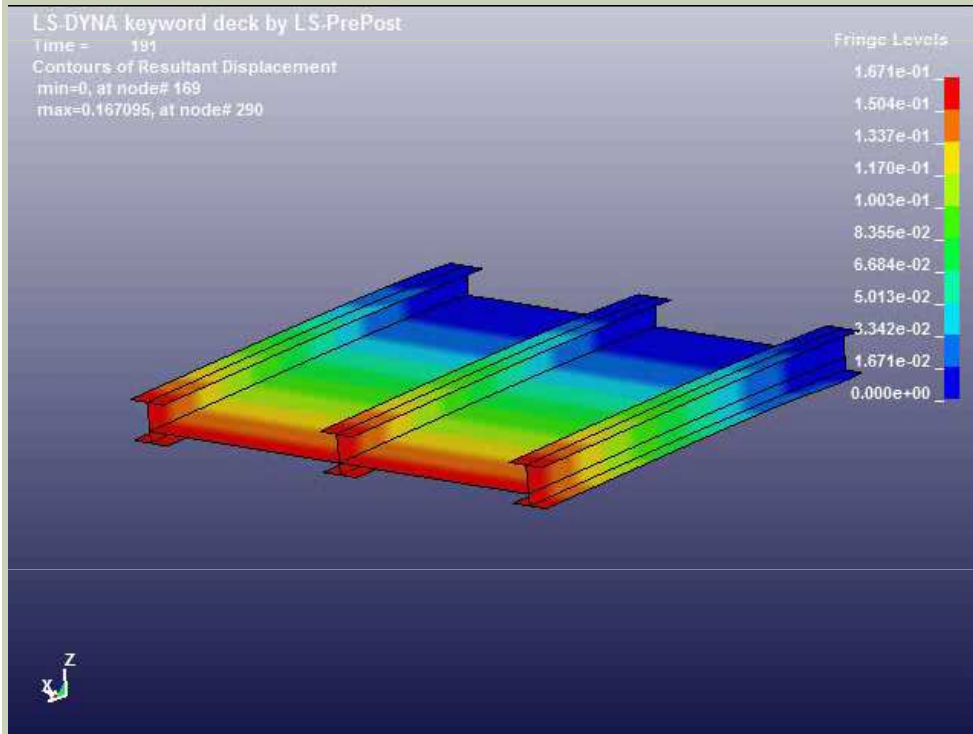
G 1.3

The team:
Egle Rackauskaite
Neno Toric
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ASET

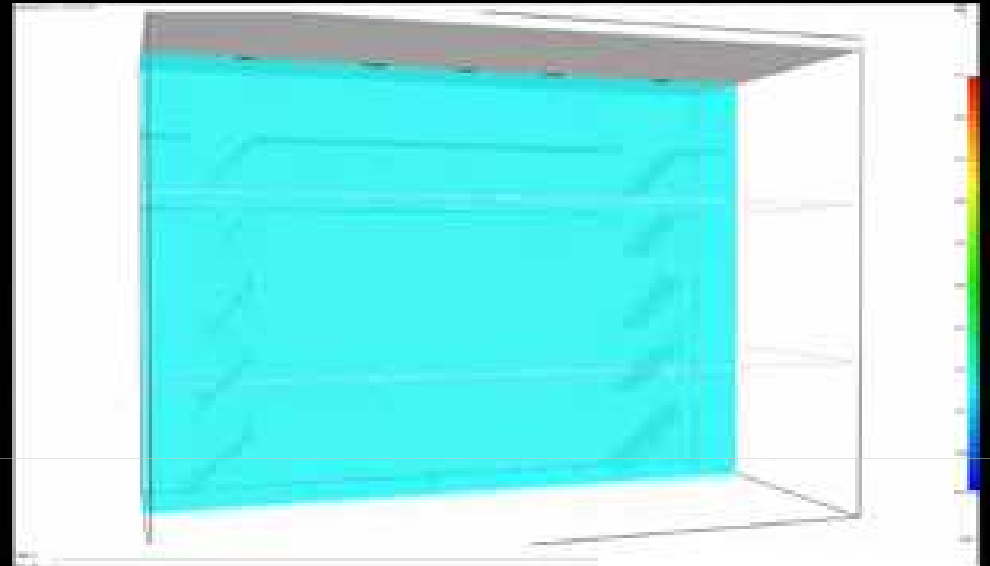
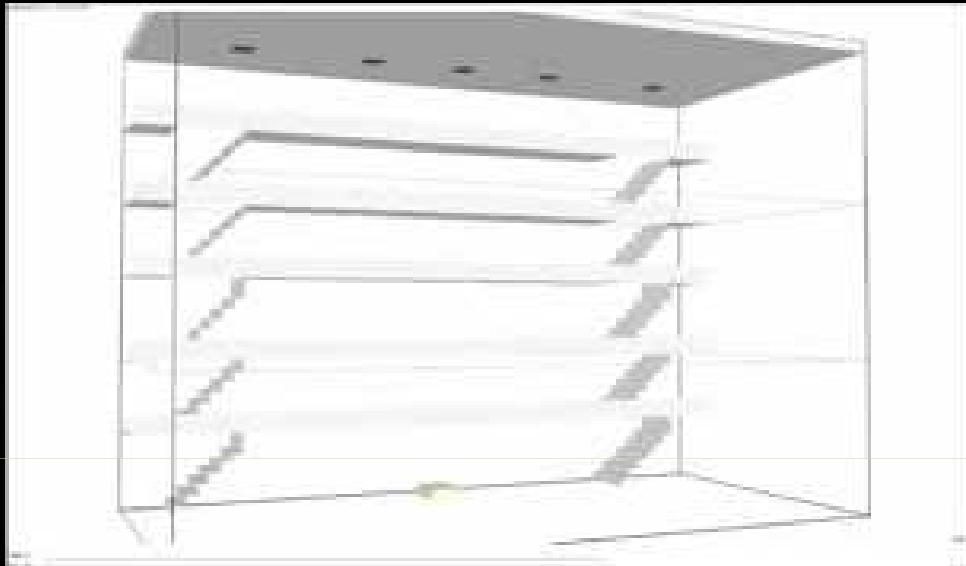
STRUCTURAL MODELLING



Fire resistance: 33 min
Max deflection: 167 mm

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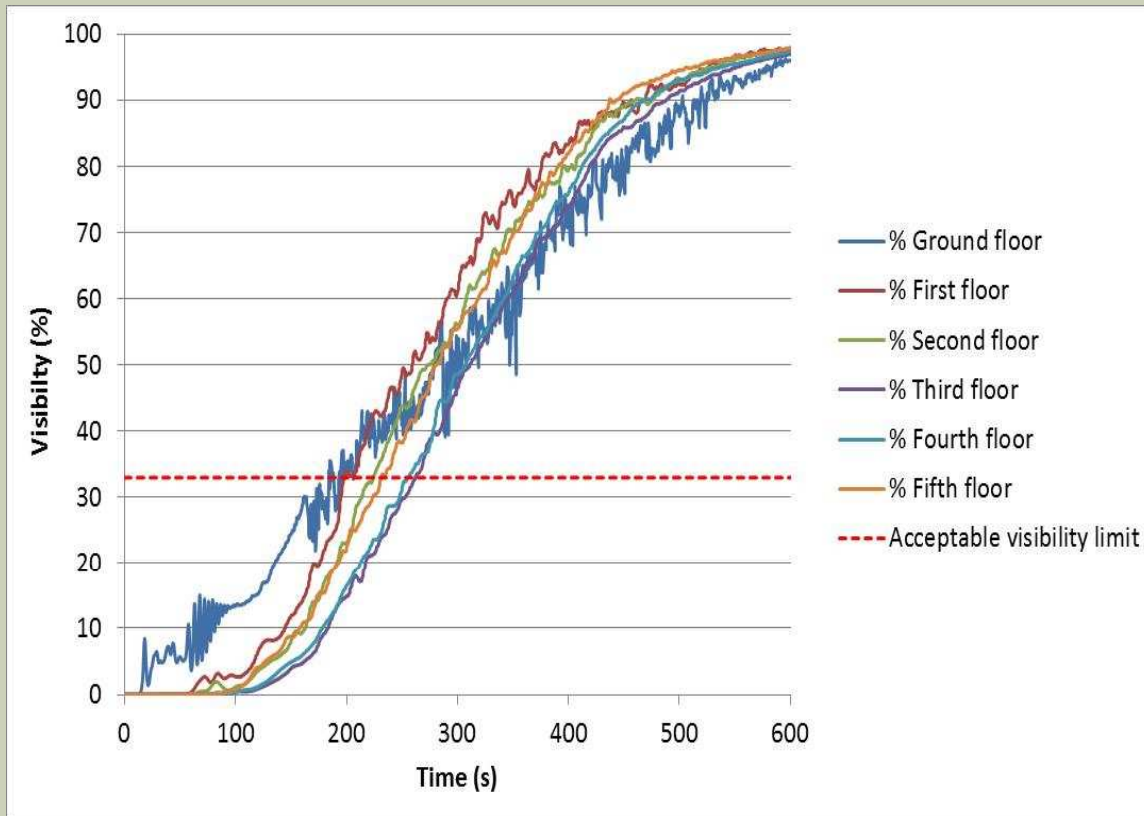
FIRE MODELLING



First floor visibility: 3.33 min
Ground floor temperature: 30-50 C

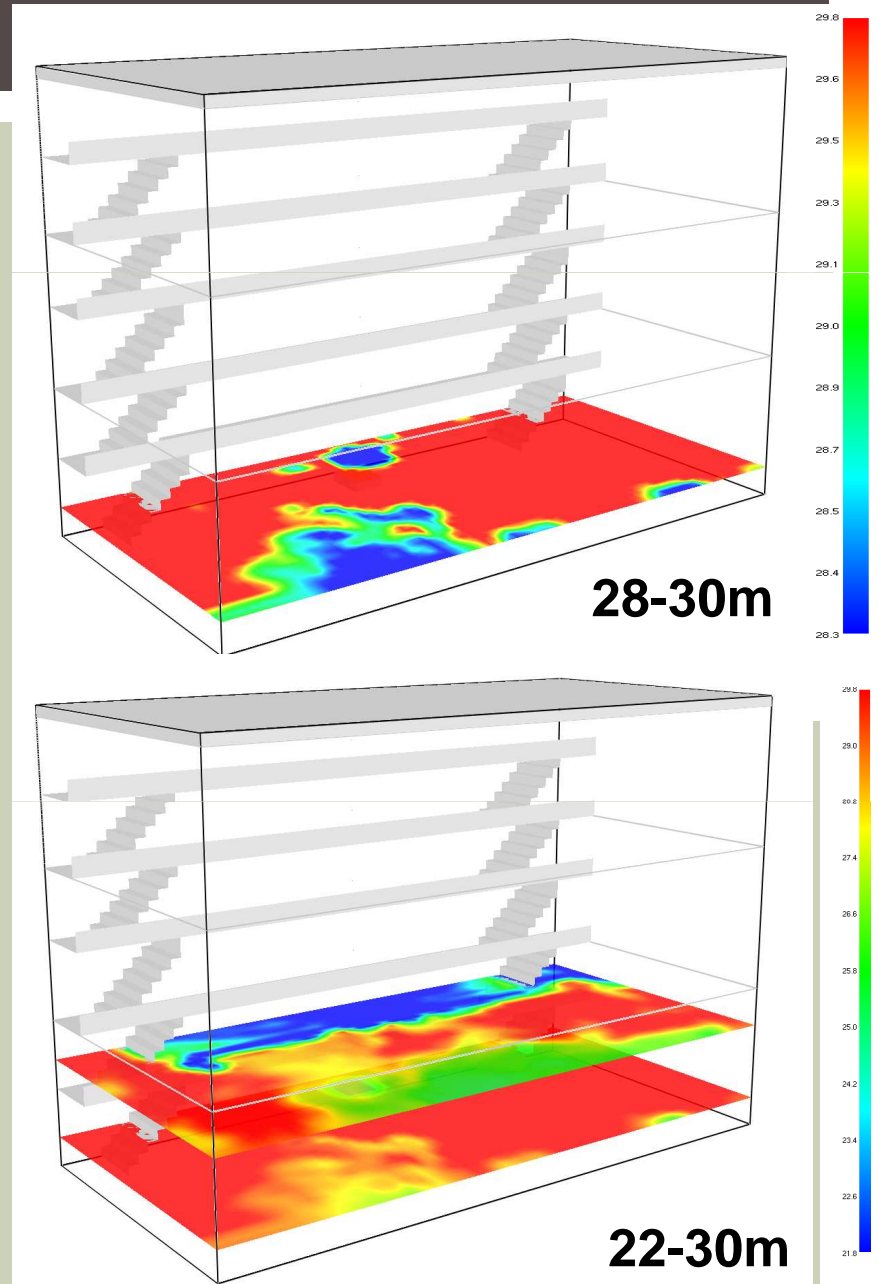
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FIRE MODELLING



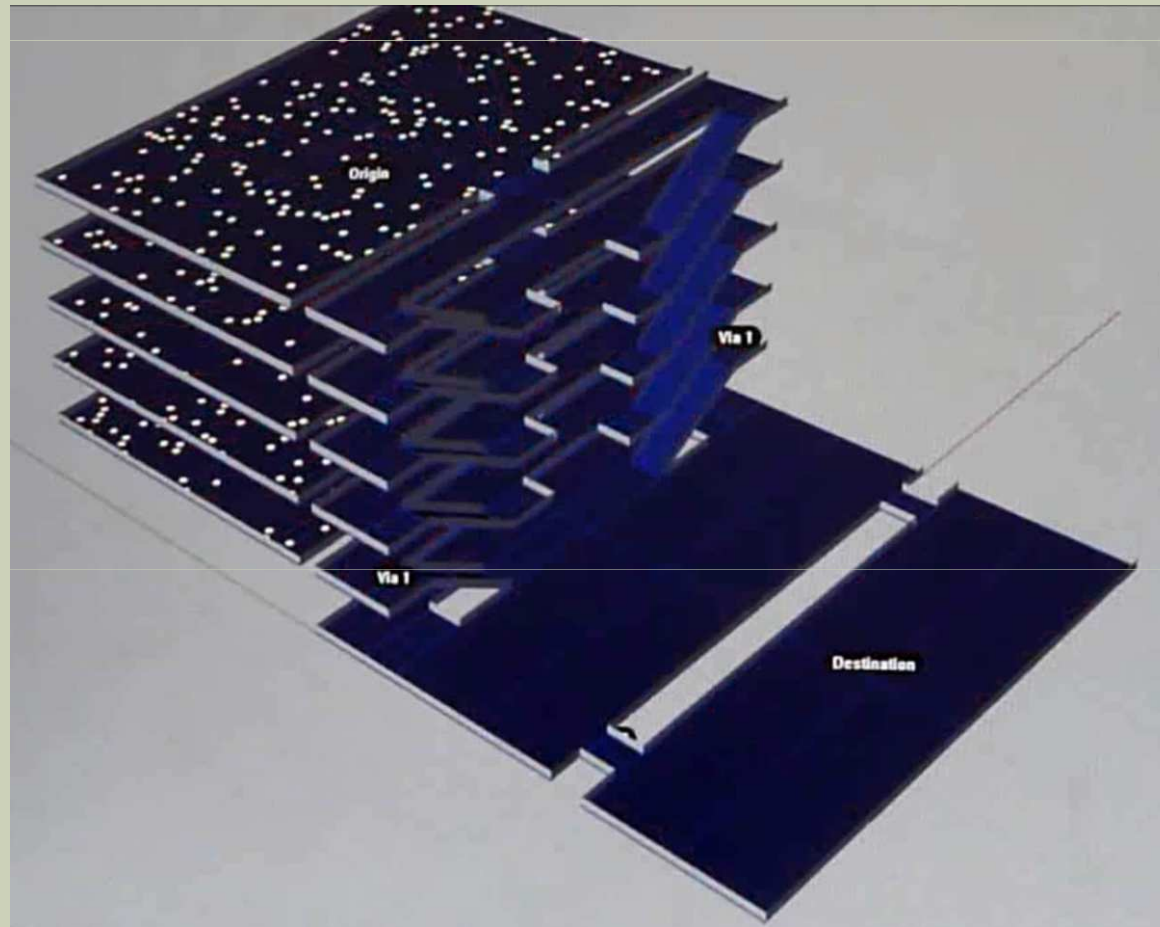
Visibility distribution

10 min



RSET

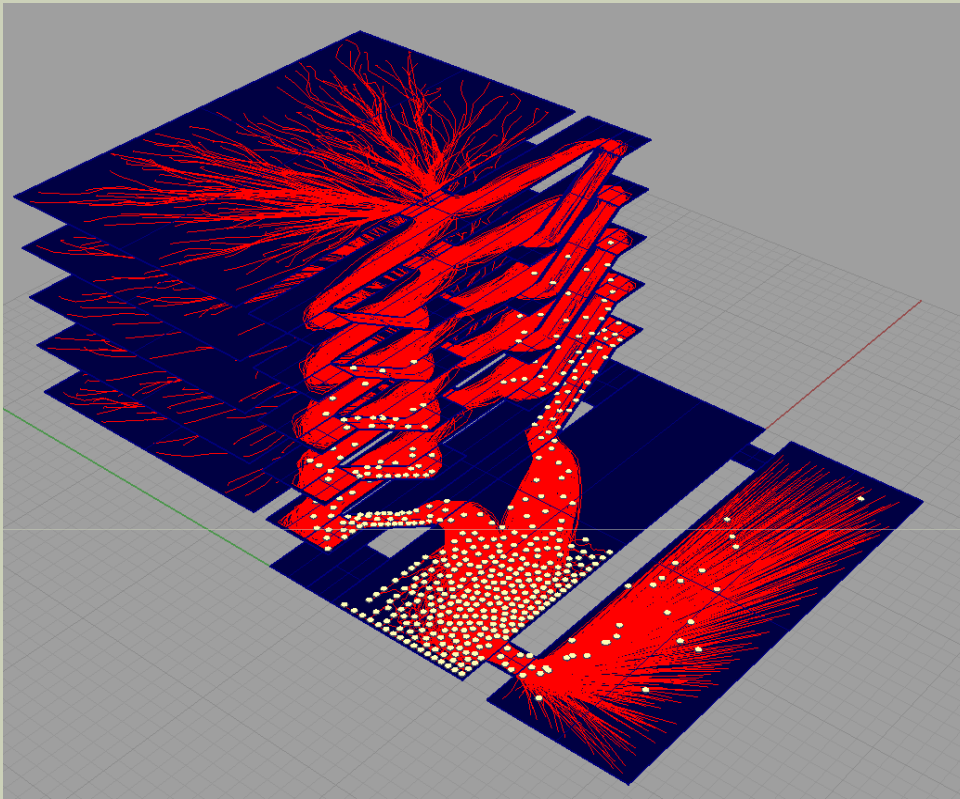
EVACUATION MODELLING



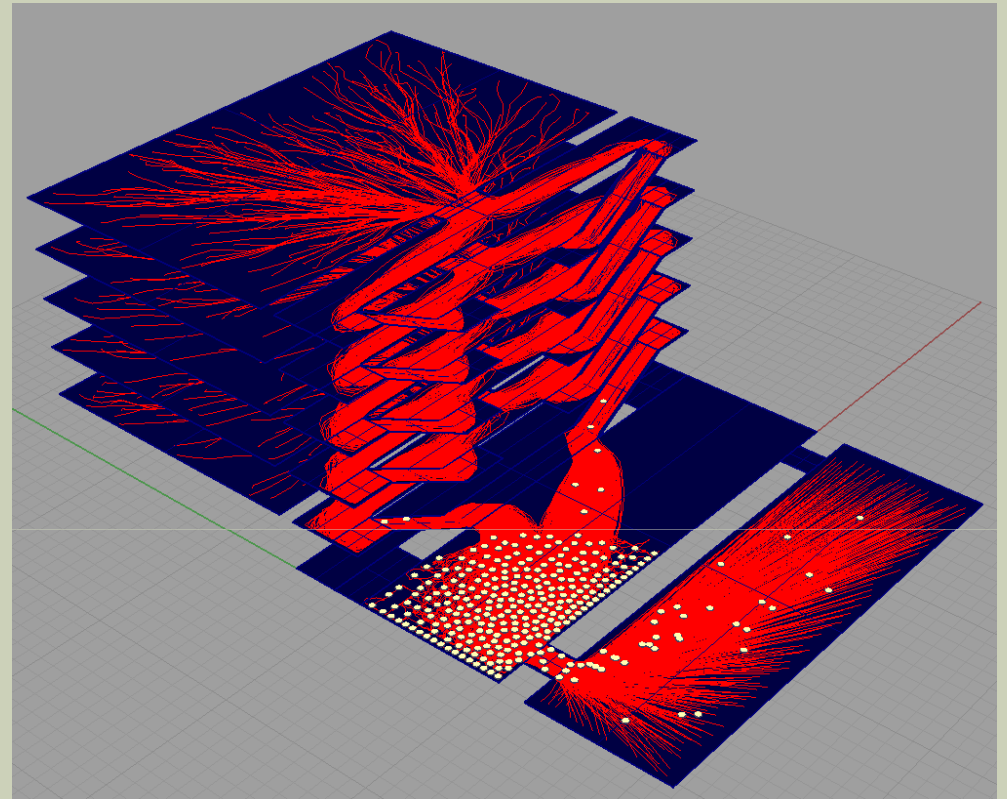
Evac time: 7 min 18 s

RSET

EVACUATION MODELLING



04:13 Two floors evacuated



05:16 Maximum hall occupancy

ASET vs. RSET

ASET time

Structural response: 33 min

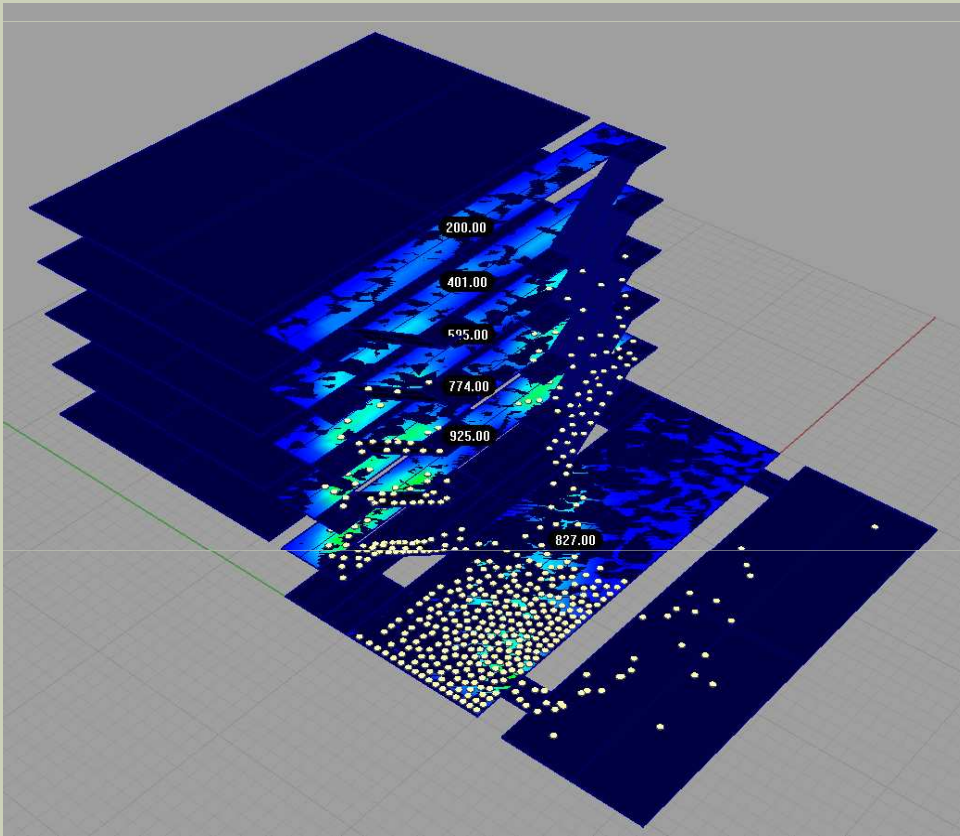
Fire modelling: 10 min

RSET time

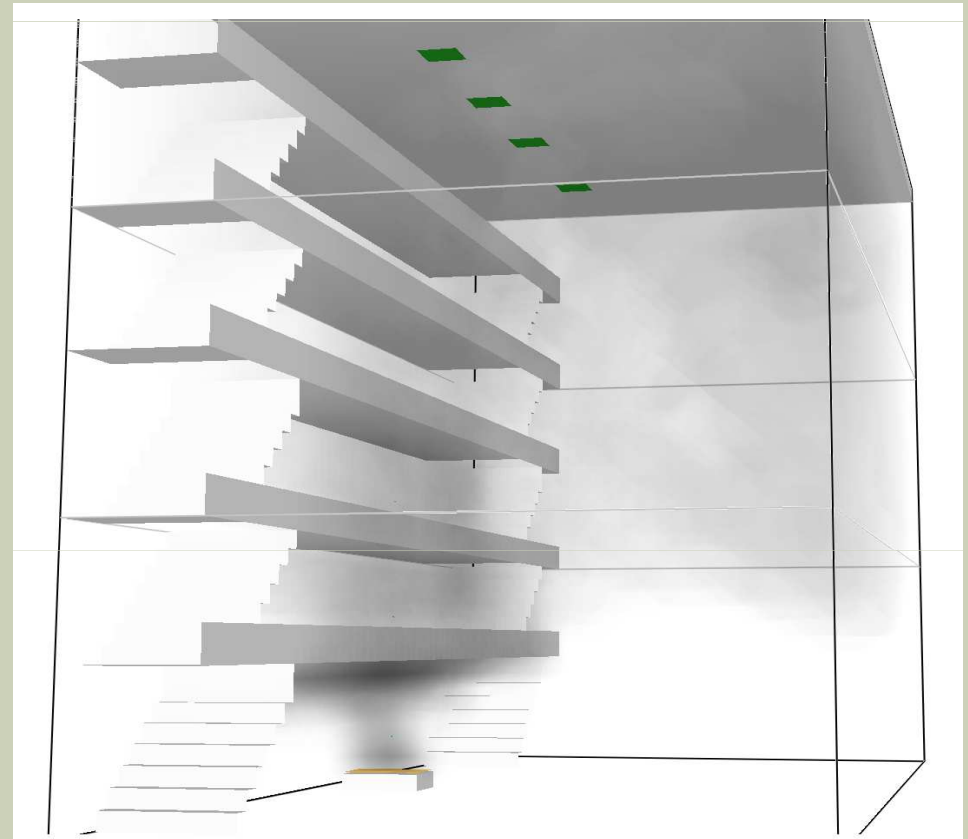
Evacuation: 7 min 18 s

RSET

SAFETY FACTOR



04:13 Two floors evacuated



4 min 13 s plot

POSSIBLE RECOMMENDATIONS

- Increase the number\width of exit points
- Smoke curtains – ground floor
- High sensitivity sprinklers – ground floor

