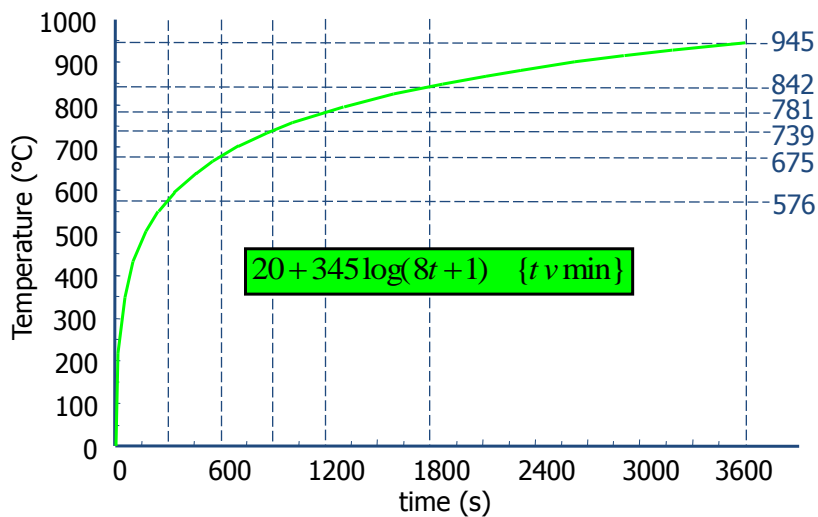
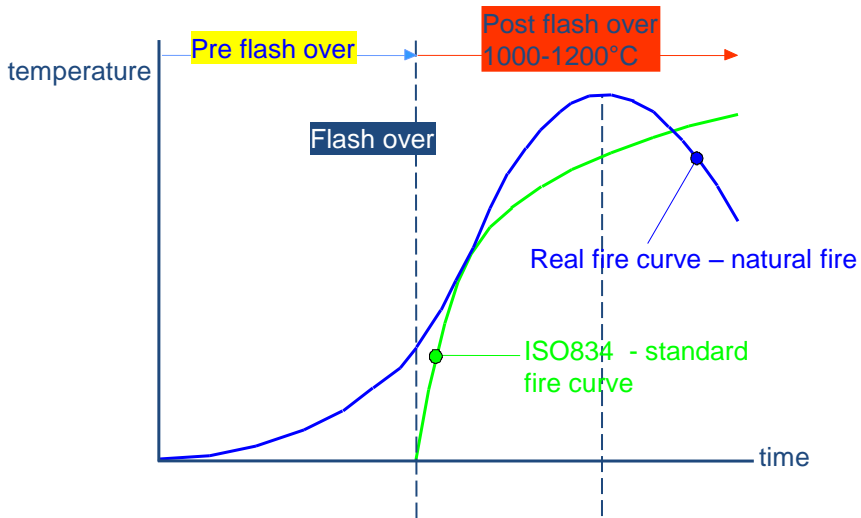


Analysis of passive fire protection measures in real fires –
Slovenian National Building and Civil Engineering Institute
- a short overview of a research work (sponsored by a
governmental grant)

Ales Jug

Fire curve – material testing – ISO 834





Industrial fire



Non fire rated door – non exposed side

Paper/wood commodity, REI 60 wall, non operating water supply system

Non fire rated door – exposed side



Hotel fire



Fire rated door – non exposed side

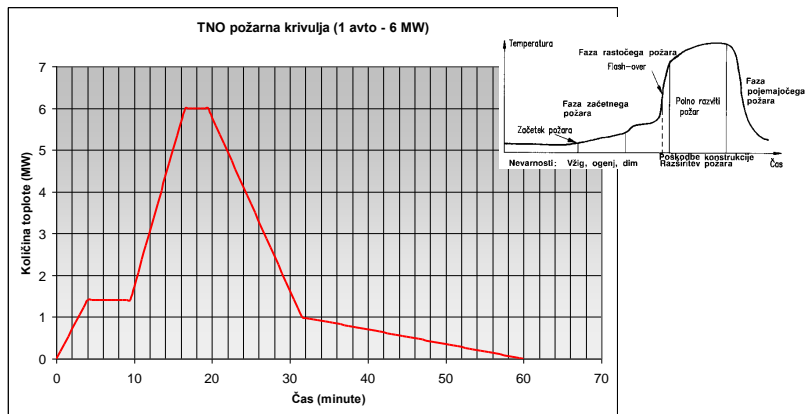
Hotel fitness room - REI 60 wall – EI 30 door



Fire rated door – exposed side

Underground car park fire

Arson – 1 car involved



REI 60 wall – EI 30 door



Fire rated door – non exposed side



Fire rated door – exposed side



REI 60 ceiling

Significant constructional damage

Mixed occupancy – business/residential



3 cars involved –
underground car park

Significant damage on a smoke
control duct – 30 minute fire
resistance



Shopping mall warehouse fire

REI 60 wall – EI 30 door



Fire rated door – non exposed side

Fire rated door – exposed side

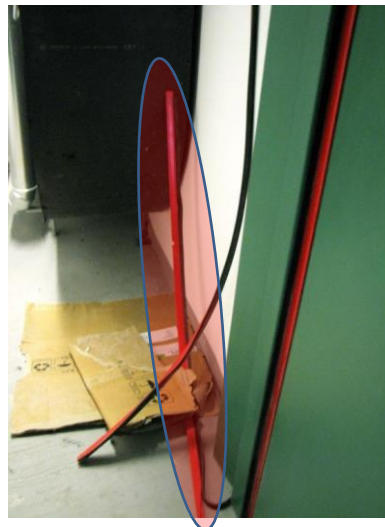
Problems



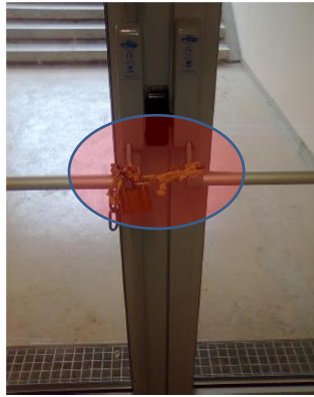
combustible gap filler on a fire rated glass



Inadequate lock on a fire rated door



improperly attached fire rated seal



Egress door



Fire rated door



Fire rated door