

Reliability of fire compartmentation

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A probabilistic approach to fire safety

Introduction

In most building codes, the fire safety requirements are prescriptive. These requirements provide for each building function general measures to reach a sufficient level of fire safety. Tailor-made fire safety solutions are not possible with prescriptive requirements. Therefore, project-specific characteristics should be taken into account. That is possible with a performance based approach with a natural fire concept.

A performance based approach is difficult to link to the building code, although this is necessary to determine whether or not the performance based approach meets the required public safety level. A link to the building code is only possible with a performance based approach in risk subsystems, related to the building code:

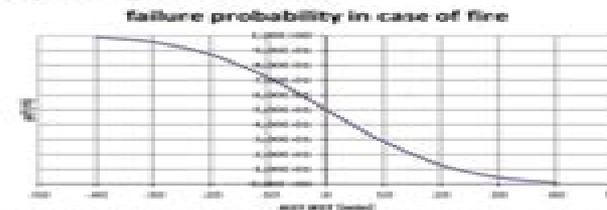
- Safe environment
- Safe building (load bearing structure)
- Safe compartmentation (spread of fire and smoke)
- Safe escape and attack routes

In each risk subsystem it is possible to compare RST (required safe time) and AST (available safe time). The assessment on fire safety is positive (safe) as long as $AST > RST$. However, in a natural fire, based on project-specific building and fuel characteristics, there are a lot of uncertain boundary conditions (stochastic parameters). Taking into account those uncertainties, a safe time interval (ST) between AST and RST is needed: $AST > RST + ST$.

Reliability of fire resistant walls

For the risk subsystem 'compartmentation' the thermal load by a natural fire can be translated in an equivalent duration according to the standard fire curve. The equivalent fire duration is the RST and has to be compared to the AST, the fire resistance (EI) of the separation constructions of the fire compartment according to the standard fire curve.

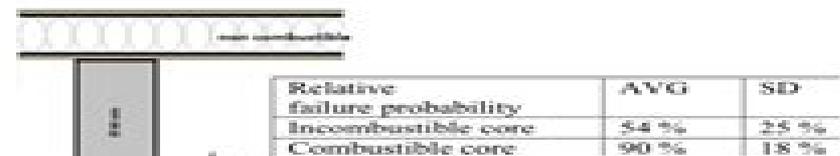
The results of a probabilistic approach, taking into account the uncertainties in stochastic boundary conditions, show that the failure probability of a 30 min. fire resistant 'ideal' separation construction of a compartment with a fire load of 30 kg/m² whitewood equivalent (pinewood: 19 MJ/kg) may be higher than 50%.



Example of the failure distribution for a separation construction of a small compartment of 100 m², with a fire load density of 570 MJ/m². The RST appears to be 33 min. With a 30 min fire resistant separation construction (AST) the AST-RST interval is -3 min. The corresponding failure probability of the separation construction is 57%. A 60 min fire resistant separation constructions reduce the failure probability to 6%.

Influence of adjoining constructions

The influence of the façade on the fire resistance of a compartmentwall is estimated by different expertpanels in the Netherlands and the UK. During expertclasses the audience assessed 16 details of lightweight façades connected to compartment walls and compartment floors. In total, over 150 expert opinions were gathered. The influence of a lightweight façade on the fire resistance of a compartmentwall is significant, according to these experts.



Example of the relative failure probability by a flanking construction (façade) of a compartment wall, horizontal cross section.

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