

Fire performance of escape route doors in cultural heritage buildings – a state-of-the-art review

Many older apartment houses have original stairwell doors of cultural heritage value. The stairwell doors are critical elements to prevent fire spread and to keep evacuation routes safe, so their function and condition are important to the level of fire protection in the building.

Purpose and objectives

The purpose of this report was to get an overview of the state-of-the-art of fire performance of old timber doors and their weaknesses as presented in Norwegian reports and fire tests; of guidelines used for upgrading, and of laws and regulations relevant to the upgrading of existing doors.

Conclusion and proposal for future work

There is a need for documentation of the fire performance of upgraded old door leaves. A test plan for fire tests should be set up. New fire tests should provide a basis for the preparation of such documentation. The documentation should be useable to establish "pre-accepted" solutions or to create a template or set of criteria which fire consultants can use as a framework for designing more individual solutions, in accordance with the fire legislation and to current building regulations.

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You may find the full report here:

www.researchgate.net/project/FRIC-P43-Fire-safety-measures-for-dwellings



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