

Current European practice in structural fire engineering is tending more and more to acceptance of the benefits to be gained from performance-based approaches to fire-resistant design. These proceedings, from the Applications of Structural Fire Engineering conference, presents the state of the art in the development and application of both simple and advanced performance-based design methods for concrete, steel and timber structures. Internationally acknowledged research experts and specialists in design against fire are represented in these articles, offering an opportunity to share contemporary ideas and knowledge within both the background science and practical case studies. The spectrum of relevant research themes covered encompasses fire modelling, heat transfer to structural elements, numerical modelling of thermo-structural behaviour at elevated temperatures, structural fire testing at elemental and structural scales, the development of simplified design methods and studies based on the structural Eurocodes. Practical design case studies demonstrating the ways in which performance-based structural fire safety design methods have been applied to real projects, and the economic and safety implications of using these methods in place of the traditional prescriptive rules, are included.

 department of steel and timber structures

**Proceedings of International Conference  
Applications of Structural Fire Engineering  
Prague, 19–20 February 2009**

ISBN 978-80-01-04266-3



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**Ed. Wald F., Kallerová P., Chlouba J.**

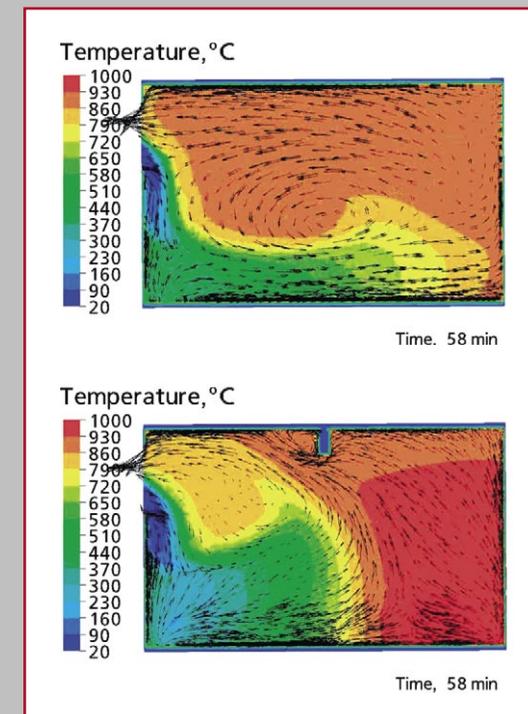
Print Pražská technika, Czech Technical University in Prague  
January 2009, 200 copies

APPLICATIONS OF STRUCTURAL FIRE ENGINEERING

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