



TAMPERE UNIVERSITY OF TECHNOLOGY
Faculty of business and built environment, Department of structural engineering
Research Centre of Metal Structures, Seinäjoki, Hämeenlinna, Tampere, Finland

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Euroopan unioni
Euroopan aluekehitysrahasto

COST IFER WP4. Benchmark studies

CAR FIRES WITH SPRINKLERS: A STUDY ON THE EUROCODE FOR SPRINKLERS

Mikko Partanen, Markku Heinisuo, TUT, Finland

Solution strategy (details in ASFE paper and report of TUT).

Tests in BRE, 2009.

Method: Eurocode reduction (EC) for sprinklers with car fires.

Validation

Verification

Our FDS model.

Results:

1. EC is OK for the first car. Does not take into account the fact that other cars do not ignite => conservative for longer periods of fire.
2. Car fire models comprehensively validated world wide.
3. => Car fires can be put to EC: Subject for WP6.