

Case Studies – Technical Checklist

- To make sure the Case Studies give sufficient technical detail it was suggested to develop a checklist on what to include in the Case Studies.
- This list is meant to be guidance only to help the authors to make sure that all important points are covered.

Checklist – Overview

1. Setting the scene
2. Design Approach
3. Design Fire
4. Technical Detail
5. Approvals
6. The Reality
7. Closure

Checklist – Setting the Scene

1. Abstract
2. General building description
(Location, usage, sizes, unusual features)
3. On what part of the project was fire engineering used and the purpose of choosing a fire engineered approach?
(this can be generally structure, smoke movement and egress or any combination of the three)
4. Regulatory requirements for the fire engineered part of the project

Checklist – Design Approach

5. Assessment strategy
(list the steps undertaken in the detailed assessment)
6. Performance / assessment criteria
(explain at when design situation is deemed to have failed)

Checklist – Design Fire

7. Considered design fire scenarios
(list the fire scenarios, which were considered and ruled out on the way to select the design fire and explain why)
8. Selected design fires
(Description of the design fire including Time-HRR or Time-Temperature curves – discuss applicability of the selected design fire for the considered scenario)

Checklist – Technical Detail

9. Description of the smoke or heat transfer analysis
10. Thermal response of structure or behaviour of escaping people
11. Mechanical response of structure

Checklist – Approvals

12. Description of the process and the challenges of the approval by the stakeholders
(tell the storey how the project got approved and what problems/questions occurred)

Checklist – The Reality

13. Communication and checks of the fire engineered solution from report to construction site
14. Consideration of the consequences of the chosen solution on the whole lifecycle of the building
(are there any ongoing management or maintenance requirements caused by the fire engineered solution?)

Checklist – Closure

15. Conclusion
16. References

How to find the Checklist



COST Integrated Fire Engineering and Response
COST action network number 700904 in domain Transport and Urban Development

Action information
COST Action network number 700904 in domain Transport and Urban Development
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Time schedule/Key activities

- 2014 February 18-20, Meeting
- 2014 October 11-20, Meeting
- 2015 February 18-21, Prague Conference
- 2015 October 11-20, Meeting
- 2016 April 20-22, Ljubljana Conference
- 2016 April 20-22, Ljubljana Meeting
- 2016 February, (last meeting)
- 2015 October 18-20, Open Meeting, please send your Abstract to your WG Chairman
- 2015 April 20, Prague, Conference and WG meetings
- 2016 September 14, Report WG meeting, Trieste
- 2016 July 3-5, Barcelona workshop
- 2016 March 29-30, Business Q&A of results
<http://www.cost.eu>

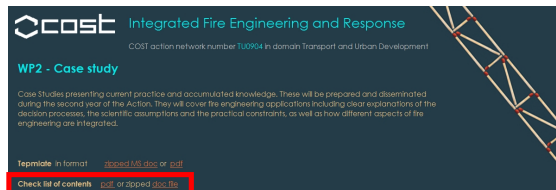
Working groups

- WG1 Fire behaviour and life cycle
- WG2 Structural Safety
- WG3 Integration Group

Worked packages

- WP1 Fire
- WP2 Case studies
- WP3 Safety and investigations
- WP4 Structural Safety
- WP5 Dissemination

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WP2 - Case study

Case Studies presenting current practice and accumulated knowledge. These will be prepared and disseminated during the second year of the Action. They will cover fire engineering applications including clear explanations of the decision processes, the scientific assumptions and the practical constraints, as well as how different aspects of the engineering are integrated.

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