

3G01: THERMAL AND STRUCTURAL RESPONSE OF A TWO-STORY, TWO-BAY COMPOSITE STEEL FRAME UNDER FIRE LOADING.

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There is an ongoing debate in the fire community about the range of applicability of the standard fire and Eurocode fire curves. In the context of your experiments, and given the realistic nature of the structure tested; how realistic was your fire source? Would you expect a real fire to develop as specified in your furnace?

**Reply by Kuldeep Prasad**

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In the large scale experiments, each compartment was heated with four oil fired burner nozzles. The nozzle operation was controlled such that the gas temperature would replicate that specified by the ISO 834 curve. Although the heating is different from that of a conventional fire, the objective was to create a database of experiments on real scale structures under a well specified fire loading.