## EXPERIMENTAL RESEARCH ON T-STUBS UNDER ELEVATED TEMPERATURES

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## Abstract

Bolted end plate connections are widely used in multi-storey steel frame structures. Their design is based on the component method, which evaluates the behaviour of the basic components through equivalent T-stubs, to model the tension zone that constitutes the most relevant source of deformability. The paper presents the results of an experimental research on bolted T-stubs, tested under elevated temperatures, in normal and high strain rate loading conditions. The influence of the loading rate on the resistance and ductility of the T-stubs subjected to elevated temperatures is emphasized.

Keywords: bolted connections, T-stubs, elevated temperatures, strain rate

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