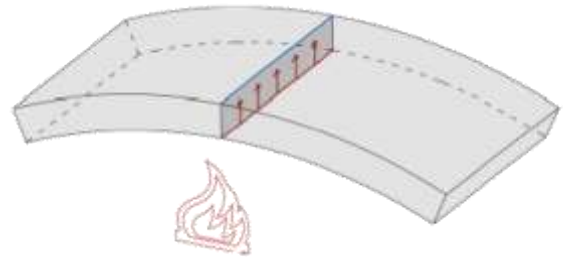




Thursday 5th September at 18:00 hrs

The Institution of Civil Engineers, Telford Theatre,
One Great George Street, Westminster, London SW1P 3AA

Evaluation of the bearing capacity of fibre reinforced concrete sections under fire exposure



Presenter: PhD. Fabio Di Carlo, University of Rome "Tor Vergata "

The presentation will look at evaluation of the bearing capacity of fibre reinforced concrete (FRC) sections, without any traditional steel reinforcement, subjected to different values of the fire duration. The presentation will also provide an approach to define bending moment–axial force interaction envelopes, through an analytical model based on the direct integration of the hot or residual mechanical properties of the material, throughout the member cross section. Finally, a parametric survey, specifically related to tunnel segments, with different geometries and FRC materials will also be shared to highlight the worst (or better) scenarios.

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