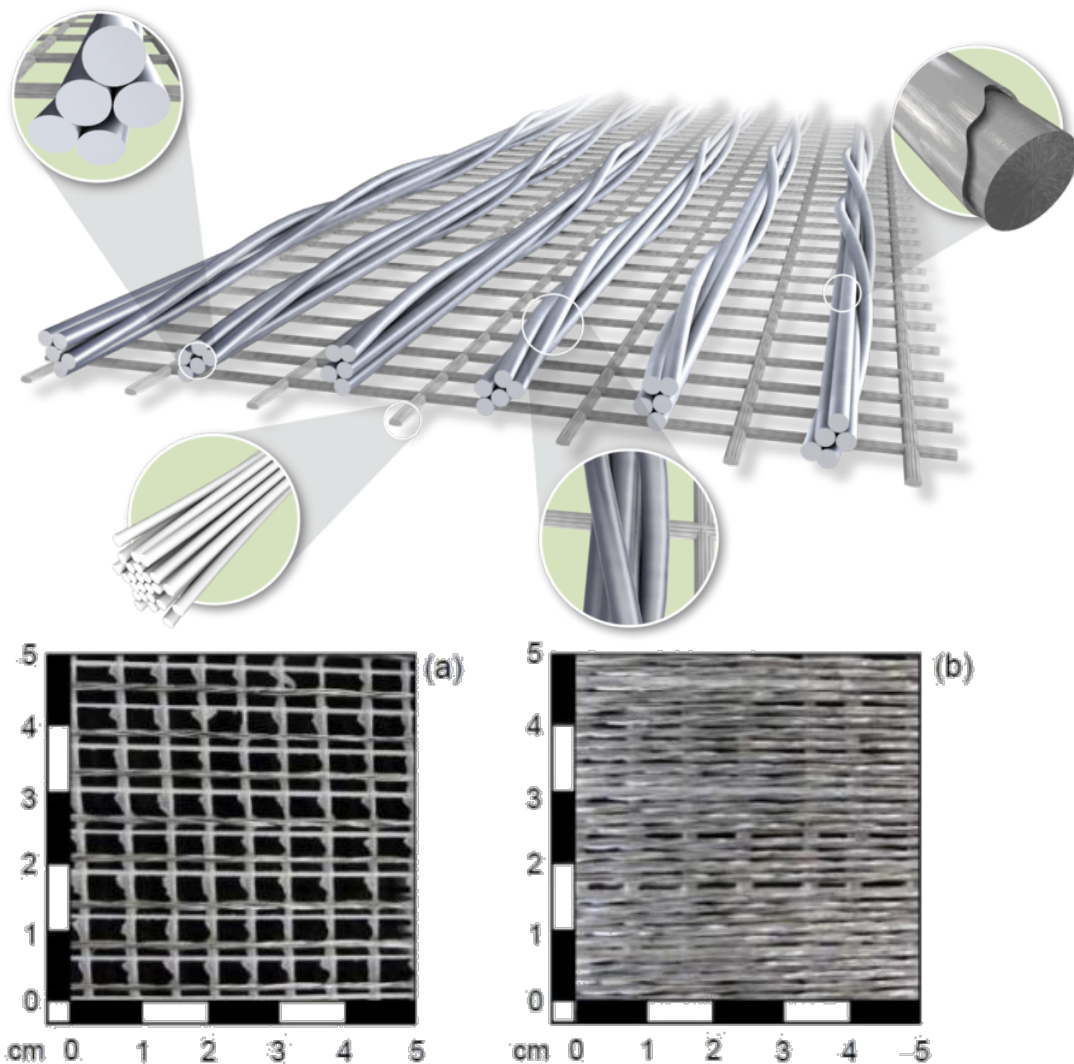


avviso di seminario

An Overview of Steel reinforced Grout Jacketing Applications

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Abstract: The Steel-Reinforced Grout (SRG) jacketing system is local intervention method which comprises composite fabrics that consist of high strength steel cords embedded in an inorganic matrix. The new composite system is simple and fast in its application and has been successfully applied for confinement of plain and reinforced concrete (RC), shear strengthening of beams and strengthening of RC columns with old-type detailing.



In this presentation, the information related to the confinement effectiveness of the SRG jackets, the strength and deformation capacity increase observed in the experimental studies and the capability of the proposed method in preventing premature failure of RC structural members with substandard detailing will be presented.

Bio-sketch: Georgia Thermou is a Marie Curie Individual Fellow at the Civil and Structural Engineering Department of the University of Sheffield since September 2016. She also holds the position of Assistant Professor in Structural Engineering at the Civil Engineering Department of Aristotle University of Thessaloniki (AUTH, Greece) since 2015 after serving for 6 years as a Lecturer (2009-2015). Dr Thermou received her 5-year Diploma in Civil Engineering (1999, DUTH), an MSc with distinction in “New Materials and Techniques on the Design of Reinforced Concrete” (2000, DUTH), and an MSc in “Earthquake Engineering and Structural Dynamics” from Imperial College London. She received her PhD in “Design and Assessment Models and Spectra for Repaired Reinforced Concrete Structures” with distinction (2007, DUTH). Georgia has 17 years of research experience in the field of earthquake engineering and structural mechanics with emphasis in performance-based engineering. She has worked as a full-time researcher in 2 European (SAFERR, SPEAR) and 4 Hellenic research projects. She has published 75 papers in peer reviewed journals, special volumes and conferences. She is currently involved in Cost Actions TUD 1207, 1303, 1402, 1406. She is also a member of fib Task Group 5.1 “FRP reinforcement for concrete structures”, ACI committees “374-Performance-based design”, “549-Thin reinforced cementitious products and ferrocement”. Dr Thermou participates as a member in the Technical Committee 67 of the Hellenic Body for Standardisation (ELOT) in the Working Groups of “Eurocode 2” and “Fiber reinforced polymer structures”.