

# **ON THE CONFINED HIGH-STRENGTH CONCRETE AND NEED OF FUTURE RESEARCH**

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## **ABSTRACT**

Investigation about requirements of confining reinforcement on the structure of high strength concrete in Indonesia has been progressed significantly since the last two decades. Research carried out intensively on high strength concrete, produces a material which has a relatively brittle nature. Various parameters of the confining reinforcement design have been varied to obtain the optimal results regarding the behavior of high strength concrete, especially for columns comprehensively. This paper discussed about the development roadmap of confined high-strength concrete research subjected to static and dynamic loadings, and also the implementation of the design equations specified in the last Indonesia National Standard for concrete structures (SNI 2847-2013). Results of this further discussion were associated with the need of the development research of confining reinforcement on high strength concrete material adapted to the material properties and zones in Indonesia.

Keywords: High-strength concrete, confinement, strength, ductility