

High-strength concrete (HSC) in seismic regions

American Concrete Institute - High



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Experimental research on seismic behavior of concrete

Stanton by Mohamed Moustafa by Drew Kirkpatrick,Leonard M.

Limited deformability design of high

Figure shows a comparison between the theoretical curvature ductility and the experimental curvature ductility values.

STRUCTURE magazine

Previous experimental studies Kristombu Baduge et al. Also, if one needs to go beyond the range of factored axial loads and concrete strengths that can be accommodated with No.

Limited deformability design of high

Park -Performance of High-Strength Concrete HSC Columns Confined with Rectilinear Reinforcement by A. Energy-Based Ductility of VHSC Columns Kristombu Baduge showed that the curvature ductility cannot represent the increase in the plastic energy of VHSC columns along with an increase in the peak moment Fig.

Seismic behavior of high

The method proposed by Bae et al. Xin -Shear Strength of RC Members with High-Strength Concrete by F. Thus, columns should be detailed to ensure plastic hinges have at least the minimum of anticipated ductility during ground motion.

Seismic Topic

Lateral reinforcement being used to for shear resistance, confinement and prevent buckling of longitudinal reinforcement. Wallace -Tests and Analysis of High-Strength Reinforced Concrete Shear Walls in Japan, by T. Ghosh -Effect of High-Strength Concrete HSC on Flexural Members by C.

Conclusions This article discusses the modified ACI 318-14 confinement requirements for columns of special moment frames. Limited Ductility Design of VHSC Columns Proposed Expression for Curvature-Based Nominal Ductility Design of VHSC Columns Based on studies by Foster , the limited ductile design in AS 3600 suggests that the ductility level of a 50 MPa column detailed according to the minimum requirements of AS 3600 is adequate for ordinary moment resisting structures. Subscriptions These items are not eligible for return.

Seismic performance of bridges with high strength concrete columns reinforced with SMA

For a listing of and access to all product errata, visit the. Volumetric hoop ratio, configuration of hoops, compressive strength of inner concrete and lateral loading procedure were selected as test parameters.

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