

Guide for Specifying, Proportioning, and Production of Fiber-Reinforced Concrete

Reported by ACI Committee 544



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Guide for Specifying, Proportioning, and Production of Fiber-Reinforced Concrete

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This guide covers specifying, proportioning, mixing, placing, and finishing of fiber-reinforced concrete (FRC). Much of the current conventional concrete practice applies to FRC. The emphasis in the guide is to describe the differences between conventional concrete and FRC and how to deal with them. Sample mixture proportions are tabulated. Guidance is provided in the mixing techniques to achieve uniform mixtures, placement techniques

to assure adequate consolidation, and finishing techniques to assure satisfactory surface textures. A listing of references is provided covering proportioning, properties, applications, shotcrete technology, and general information on FRC.

Keywords: fiber; fiber-reinforced concrete; production; proportioning; specification.

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