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Guide to Design Detailing to Mitigate Cracking

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Guide to Design Detailing to Mitigate Cracking

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Recommendations made in this guide offer performance-based details that can mitigate and control concrete cracking. Structural elements are reviewed individually to identify crack causation and to offer design and detailing recommendations to mitigate crack development. In addition, standard details for various structural members within a building are offered that have been used effectively to mitigate and control crack development in concrete members.

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Keywords: cast-in-place; crack mitigation; crack control; cracking; detailing; environmental structure; foundation; prestressed; reinforcement; restraint; shrinkage; slab; tensile stress; thermal effects; wall.

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