

Allowable Stress Design Method for Flexural Reinforcement in Shear Walls

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Abstract:

A design method is developed for estimating the required uniformly distributed reinforcement for shear walls under in-plane loads designed using the Allowable Stress Design method. The method is easy to apply irrespective of whether the allowable masonry compression stress or the allowable steel stress controls the design. The method tends to be about 10-15% conservative in the estimate of required area of steel.

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