PARTIALLY PRESTRESSED COMPOSITE BEAMS. II.

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Abstract: The behavior of a two-span composite beam, consisting of a concrete slab shear connected to a steel beam and prestressed near the central support region, was studied experimentally. The test beam was 37 ft (11. 28 m) long with two spans 18 ft (5. 49 m) in length each. The test results were compared with predicted values. The advantages of partial prestressing of composite beams in terms of performance under service loads and economy are further established.