

عنوان مقاله:

The Effects of Geogrid on Reduction of Reflection Cracking in Asphalt Overlay

محل انتشار:

چهارمین کنگره ملی مهندسی عمران (سال: 1387)

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خلاصه مقاله:

An experimental program was conducted to determine the effects of geosynthetic reinforcement on mitigating reflection cracking in asphalt overlays. The objectives of this study were to assess the effects of geosynthetics inclusion and its placement location on the accumulation of permanent deformation. This study revealed that geosynthetic reinforced specimens improved resistance to reflection cracking. Placing the geogrid at the one third depth of overlay thickness from bottom had the maximum service life. Results indicate a significant reduction in the rate of crack propagation and rutting in reinforced samples compared to unreinforced samples.

کلمات کلیدی:

Reflection cracking, asphalt overlays, deformation, crack propagation, geosynthetics

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