Various models of cold-joint

Given the adaptability of the CZM in simulating concrete cold joint structures, this paper combines CZM with a meso-modeling approach to develop a 3D four-phase RFC model that ...

The originality of this study lies in its comprehensive assessment of the effects of using different strength concretes on either side of the cold joint on the compressive and flexural strengths ...

This experimental study investigates the influence of interlayer orientation and the presence of cold joints (CJ) on mechanical properties, such as stiffness and strength.

In this paper, the problem of the generation of cold joints is approached from two complementary perspectives.

The study utilizes a database of 217 cold joints, categorized by surface type (smooth or roughened), and employs a range of input parameters, including concrete strength, reinforcement ...

Practice oriented papers and articles ON COLD JOIN Impact of Retarder-Induced Roughness on Shear Friction Capacity using Conventional and High-Strength Reinforcement

This study compared compressive and flexural tests of six ordinary cylindrical and beam samples to 24 models with cold joints; the strength test results confirm the literature data.

Abstract This study introduces a mechanics-based numerical model to characterize the behavior of cold joints in reinforced concrete members subjected to monotonic loading.

Drawing upon existing literature, including numerical simulations and experimental testing, this study presents a robust simplified numerical simulation modeling framework for predicting the behavior of ...

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