Recommended Cold Joint Models

This paper introduces a computational model for assessing the risk of cold joint formation that accounts for the extruded structural geometry, structural interaction with the environment, and ...

The American Concrete Institute (ACI) is a leading authority and resource worldwide for the development and distribution of consensus-based standards, technical resources, educational ...

Multiple linear regression (MLR), random forest regression (RFR), and support vector machine regression (SVR) prediction models for cold joint shear strength were established based on ...

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

The study aims to measure the reduction in compressive and flexural strength of concrete specimens containing cold joints, evaluate the effect of cold joint orientation (vertical, horizontal, or ...

Checklist in ACI 306.1 can be used to add appropriate modi-fications to the contract documents. This document guides the specifier, contractor, and concrete producer through the recommendations that ...

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

Ask the price for a cold joint bulkhead between the slab and the beam in order to place the beam monolithically. A second placement can be used to make the slab. Keep in mind that to ...

Horizontal cold joints maintain compressive strength, while diagonal and vertical joints exhibit significant strength loss. A constitutive model simulates concrete"s time-dependent behavior under load, crucial ...

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 ...

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