

STAND TESTING FOR PREFABRICATED BEAMS USED IN THE EXECUTION OF SUPRASTRUCTURE OF ROAD BRIDGES

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Rezumat. *Lucrarea prezintă încercarea pe stand a unei grinzi de beton precomprimat utilizată la execuția suprastructurii pasajelor rutiere. Încercarea a fost realizată cu ajutorul unei instalații hidraulice prin aplicarea în trepte a două forțe concentrate verticale. Deformațiile verticale ale grinzii s-au măsurat cu comparatoare cu fir și rola, iar deformațiile specifice prin tensometrie electro-rezistivă. Sunt prezentate rezultatele obținute și comportarea acestora la încercarea cu sarcini verticale a grinzii din beton precomprimat.*

Abstract. *The paper presents the test on the stand of a pre-pressed concrete beam used for the execution of the overpass of the roadways. The loading was carried out by means of a hydraulic installation by stepwise application of two vertical concentrate forces. Vertical beam deformations were measured with wire and roller comparators, and specific deformations by electrically resistive tensometry. Are presented the obtained results and their behavior in loading with vertical loads of pre-compacted concrete beams.*

Keywords: Test beams, deformation beams, concrete precast, road bridges

1. Introduction

The continuous growth of road traffic leads to the development of new communication routes, namely highways, national roads, as well as the rehabilitation of existing ones. Achieving efficient transport infrastructure favors economic development and contributes to European integration.

In this context, the bridges and viaducts that ensure the crossing of natural obstacles are of great importance. The main objective to be met, by new bridges and those in operation, is to ensure traffic safety [4].

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