

STAND STATIC TESTING OF PREFABRICATED BEAMS USED IN THE EXECUTION OF ROAD BRIDGE SUPERSTRUCTURE

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Rezumat. *Lucrarea tratează încercarea statică pe stand a grinzilor de beton precomprimat utilizate la realizarea suprastructurilor podurilor rutiere. Încercarea a fost efectuată progresiv, prin încărcarea grinzilor cu forțe verticale concentrate, produse cu ajutorul unei instalații hidraulice. Deformațiile verticale au fost monitorizate cu comparatoare cu fir și rolă, iar cele specifice au fost determinate prin tensometrie electro-rezistivă. Sunt prezentate și analizate rezultatele obținute, evidențiind comportamentul grinzii sub acțiunea sarcinilor verticale.*

Abstract. *The paper addresses the static testing of prestressed concrete beams used in the construction of road bridge superstructures. The test was conducted progressively by applying concentrated vertical forces generated by a hydraulic system. Vertical deformations were monitored using wire and roller comparators, while specific deformations were measured through electro-resistive strain gauging. The obtained results are presented and analyzed, highlighting the beam's behaviour under vertical loads.*

Keywords: Static Testing, Beam Testing, Beam Deformations, Precast Concrete Elements, Road bridges.

1. Introduction

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