

## COMPARAISON ENTRE ESSAI DE PLAQUE ET ESSAI DYNAPLAQUE : EXPERIMENTATIONS EN CONDITION MAITRISEES

### DIFFERENCE BETWEEN PLATE BEARING TEST AND DYNAPLAQUE: ASSESSMENT OF EXPERIMENTS UNDER CONTROLLED CONDITIONS

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**RÉSUMÉ** – Le Cerema de Rouen a mené plusieurs campagnes « d'essais croisés » permettant de statuer sur les différences pouvant exister entre un essai de portance réalisé à la plaque et l'essai à la Dynaplaque. Les résultats montrent que les valeurs sont statistiquement similaires. Les écarts de mesures pouvant être constatés en un point de mesure, sont le résultat des variations d'état hydrique ou de caractéristiques du matériau.

**ABSTRACT** – The Rouen Cerema has conducted several "cross-testing" campaigns to determine the differences that may exist between a traditional plate loading test carried out with a plate and the Dynaplaque test. The results show that the values are statistically similar. The differences in measurements that can be observed at a single measurement point are the result of variations in the water content and/or characteristics of the material.

#### 1. Introduction

Dans les projets de construction d'infrastructure, les terrassements modifient la forme du terrain naturel et s'achèvent sur la réalisation d'une surface spécifique dénommée plateforme. Cette plateforme permet ensuite la construction d'une superstructure, que ce soit une structure de chaussée, une voie ferrée, un bâtiment, etc. La réalisation de cette plateforme fait appel aux règles de l'art pour sa réalisation, règles qui sont consignées entre autre dans le Guide de réalisation des remblais et des couches de forme (LCPC-Sétra, 1992), notamment pour la partie dimensionnement et compactage des ouvrages routiers, et dont les éléments ont été repris dans la normalisation (NF P 98-086, AFNOR, 2019). Des règles similaires sont publiées dans le document technique unifié DTU 13-3 (AFNOR, 2005), spécifique aux plateformes et dallages industrielles, ou dans des référentiels techniques spécifiques comme par exemple ceux de RFF et/ou SNCF.

La caractérisation finale de la plateforme cumule plusieurs objectifs :

- des objectifs de long terme, utilisés pour le dimensionnement ;
- des objectifs à la fois à court et à long terme pour résister par exemple au gel ou à l'eau ;
- et des objectifs de court terme nécessaires à la bonne exécution des travaux.

La notion de portance est transverse à ces objectifs car elle intervient à la fois pour les besoins spécifiques de dimensionnement, pour les contrôles en cours de travaux et pour répondre aux problèmes de gel ou d'eau.

Souvent cette notion de portance prend le pas sur l'ensemble des objectifs recherchés au moment de l'exécution de la plateforme. En effet, très souvent fixée contractuellement dans les marchés travaux, elle traduit à la fois les objectifs de dimensionnement (long terme) mais également les objectifs de réception des travaux (court terme). Et dans les éléments qui reviennent souvent en débat figurent en bonne place, le choix des outils pour mesurer le module de déformabilité qui reflète la « portance » ainsi recherchée.

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