

## عنوان مقاله:

A study of soil-welded steel grid reinforcement interface friction by pull-out test

## محل انتشار:

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## نویسندگان:

S.H Lajevardi

D Dias - *Grenoble Alpes University, Grenoble, France*

J Racinais - *MENARD, Nozay, France*

## خلاصه مقاله:

The interface friction coefficient is an important design parameter for reinforced soil structures where the friction between the soil and reinforcement elements is mobilized. The pull-out test is the most commonly adopted method to identify this friction coefficient. In this paper, 18 pull-out tests were conducted on two types of welded steel grids embedded in a sand to investigate the soil/reinforcement interaction. The tests were conducted under vertical stresses ranging from 20 to 140kPa on the reinforcement. Ju et al. (2004) developed a new test method based on a staged pull-out test for extensible reinforcements. In this study and for inextensible reinforcement, this new test method has also been used. In a usual pull-out test, only one vertical stress has been used. For a staged pull-out test, several vertical stresses are used. The results of staged pull-out tests are in good agreement with results of usual pull-out test.

## کلمات کلیدی:

Pull-out test, Welded steel grid, Friction coefficient, Soil reinforcement

## لینک ثابت مقاله در پایگاه سیویلیکا:

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