

Respon tekanan tanah dinamik terhadap kedalaman dinding basement embedded non-yielding = Dynamic earth pressure response on depths of embedded non yielding basement walls

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Abstrak

Respon tekanan tanah dinamik pada struktur dinding penahan tanah menjadi suatu permasalahan di dunia konstruksi Teknik Sipil yang harus diselidiki. Fokus penelitian ini adalah bagaimana perbedaan respon tekanan tanah dinamik terhadap variasi kedalaman dinding basement embedded non-yielding. Metode penelitian yang digunakan yaitu metode numerik dengan menggunakan program PLAXIS 2D v8. Hasil dari penelitian ini menunjukkan bahwa perbedaan ukuran kedalaman dinding basement embedded non-yielding tidak memberi pengaruh yang signifikan terhadap respon tekanan tanah dinamik yang terjadi di belakang dinding.

.....The dynamic earth pressure response on the retaining wall structure becomes a problem in the construction of Civil Engineering that must be investigated. This study focuses on how the response differences of the dynamic earth pressure to the depths variation of embedded non yielding basement wall. The research method used is numerical method using PLAXIS 2D v8. The result of this study indicates that the size differences of depths of embedded non yielding basement wall does not have a significant effect to the dynamic earth pressure response that occurs behind the wall.