Project Test project
Project No. 1004
Subject Outline Rigid Inclusion Settlement Assessment
Client J Coffey

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1 Introduction

This piled raft settlement analysis is undertaken using an AI deep learning algorithm implemented by A2-Tech,trained using a vast dataset of case studies based on the A-squared group's project experience over the past decade. A square raft is considered and the ground model is idealised as a single layer with stiffness (E') linearly increasing with depth

2 Input

The key input parameters are shown in Figure 1.

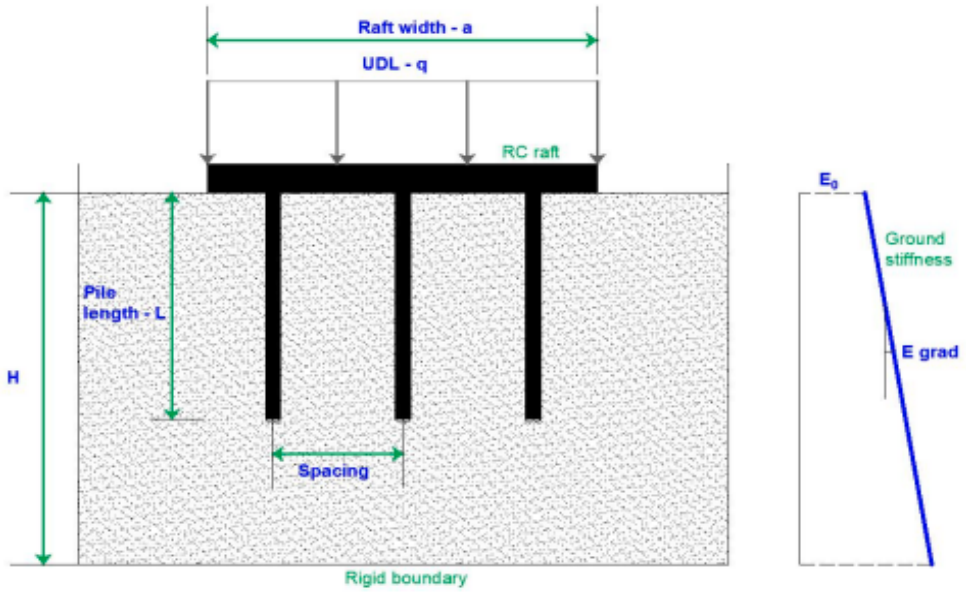

Figure 1: Piled raft scheme indicative sketch - assessment input parameters shown in blue

The selected input values are as follows:

- Spacing: 3 m
- E soft: 3 MPa
- H soft: 5 m
- Embedment: 3 m
- H stiff (m): 15 m
- E stiff (MPa): 88 MPa

3 Output

The predicted rigid inclusion settlement is 46.4 mm.

A2-Engine
One Westminster Bridge Rd
London, SE1 7XW

020 7620 2868
info@a2-engine.com
www.a2-engine.com