

Construct Q~s Plot by SS/CP4(2003) using OJACK

Load~Displacement Plot
data from load test

Load~Displacement Plot
deduction of buoyancy in upper length

Construct Q~s Plot in Rigid Body Behavior
Singapore Standard SS/CP4(2003)

Construct Q~s Plot in Rigid Body Behavior
extrapolate data to achieve Qu

Q~s Plot in Rigid Body Behavior
Q~s Plot rigid body (without elastic shortening)

Add-On Q~s Plot in Elastic Body Behavior
consider pile elastic shortening behavior

Q~s plot in Elastic Body Behavior
Q~s Plot with elastic shortening

Q~s Plot equivalent to Top-Loaded Behavior
Q~s rigid + Q~s elastic shortening

Compare Acceptance Criteria (1) of Loading
Qu(analysis) = Qu - Buoyancy Loaded - Extrapolated Load

Compare Acceptance Criteria (2) of Settlement
refer local or international acceptance criteria

Namely as OPLOT

Construct Q~s Plot by SS/TR63(2018) using YJACK

Load~Displacement Plot
data from load test

Load~Displacement Plot
no deduction of buoyancy in upper length

Construct Q~s Plot in Rigid Body Behavior
Singapore Standard SS/CP4(2003)

Construct Q~s Plot in Rigid Body Behavior
not allowed to extrapolate data to achieve Qu

Q~s Plot in Rigid Body Behavior
Q~s Plot rigid body (without elastic shortening)

Add-On Q~s Plot in Elastic Body Behavior
consider pile elastic shortening behavior

Q~s plot in Elastic Body Behavior
Q~s Plot with elastic shortening

Q~s Plot equivalent to Top-Loaded Behavior
Q~s rigid + Q~s elastic shortening

Compare Acceptance Criteria (1) of Loading
Qu(analysis) = Qu - Buoyancy Loaded + Gamma Load

Compare Acceptance Criteria (2) of Settlement
refer local or international acceptance criteria

Namely as YPLOT

Analysis Q~s Plot by Pile-Soil Modeling using YJACK

Load~Displacement Plot
data from load test

Load~Displacement Plot
no deduction of buoyancy in upper length

Load~Displacement Plot
expression in polynomial equation plot

Setting Pile Modeling in Analysis
pile length, pile size and pile modulus

Setting Soil Modeling in Analysis
skin friction and base bearing

Simulation Analysis the Q~s Plot
simulation analysis based on pile-soil model

Stop Analysis to Confirm Pile-Soil Model
confirm pile-soil model

Q~s Plot equivalent to Top-Loaded Behavior
use pile-soil model to produce Q~s Plot

Compare Acceptance Criteria (1) of Loading
Qu(analysis) = Qu

Compare Acceptance Criteria (2) of Settlement
refer local or international acceptance criteria

Namely as QSDAP

Load~Settlement Displacement Analysis Program