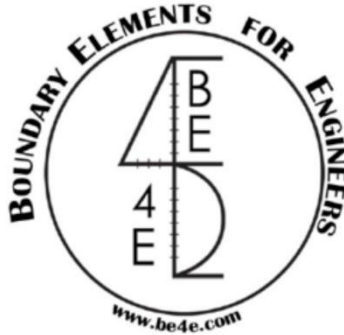# PLPAK NEWSLETTER
Your host to the latest progress and updates

Accurate / Fast Analysis & Design of Rafts
Using boundary element technology via the PLPAK

1. Accurate area (geometrical) modeling for:
   - Applied loading (columns, wall load, or load assemblies)
   - Supporting soil elements (continuous soil area supports)
   - Piles (modeled as actual circular elements)
2. Soils could be regarded as continuous springs according to winkler assumption or as elastic half space with multi-layering.
3. Direct (no iteration) solution for rafts resting on elastic half space.
4. Both soil and piles could be modeled together as supporting elements.
5. No need for internal meshing (mesh is placed only on the raft perimeter).
6. Very easy link to automated RC design package.

PLGen appearance of piles　　　　　　**PLViewappearance of piles**
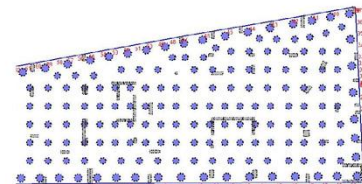
Closer look at generated model

0.8 m pile diameter

0.5 m pile diameter

Different wall shapes rested on the raft.
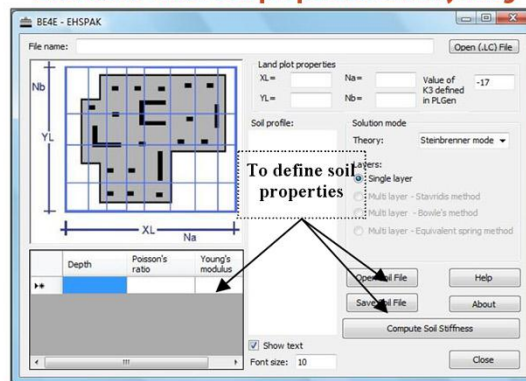
This inter-mid span is modeled accurately
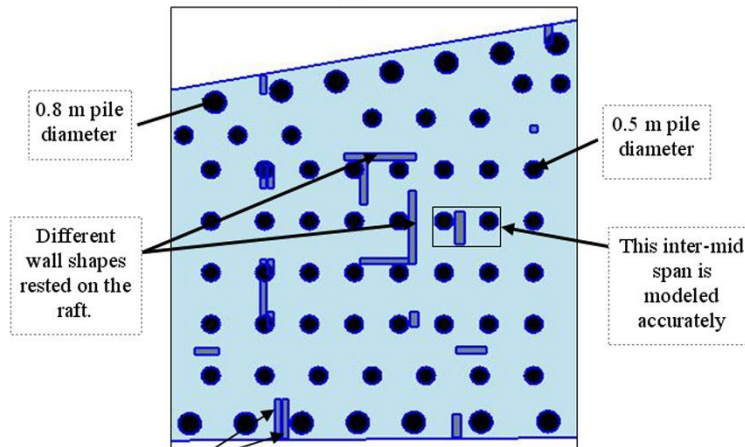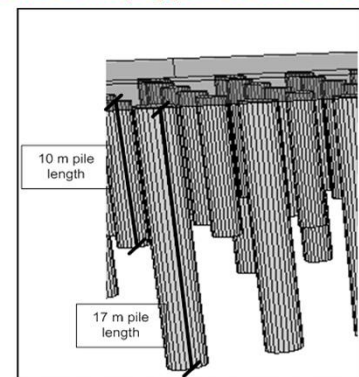
Two column loads (actual geometrical modeling)

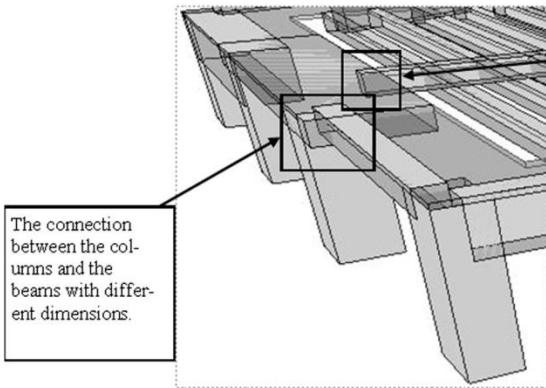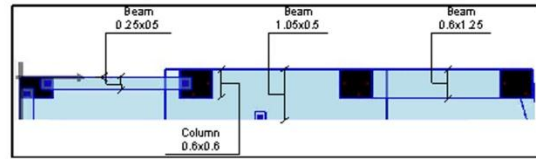**EHSPAK to enter soil properties and layering**　　　**Piles as they appear in the 3D view**

To define soil properties

10 m pile length

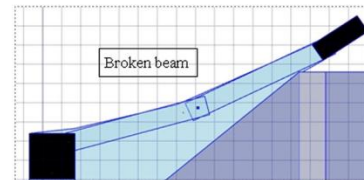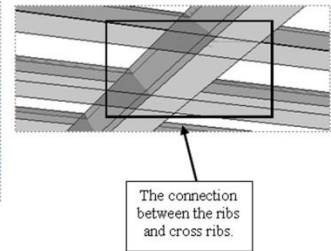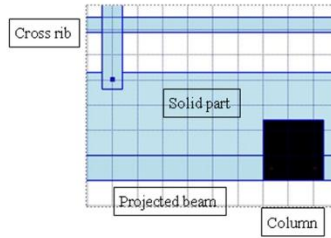17 m pile length

Connect with us!

Detailed Analysis and Design of Hollow Block Slabs

1. Accurate area (geometrical) modeling for:
   - Applied loading
   - Every individual rib could be modeled.
   - Columns are modeled by real dimensions.
   - Hidden beams modeled by real dimensions.
   - The connection between the supporting elements.

Beam 0.25x05   Beam 1.05x0.5   Beam 0.6x1.25
Column 0.6x0.6

The connection between the beams and hollow block ribs.

The connection between the columns and the columns and the beams with different dimensions.

Cross rib
Solid part
Projected beam
Column

The connection between the ribs and cross ribs.

Broken beam

2. No need for internal meshing (mesh is placed only on the slab perimeter).
3. Very easy link to automated RC design package.
4. Accurate punching check.

Solid part
column
Broken beam
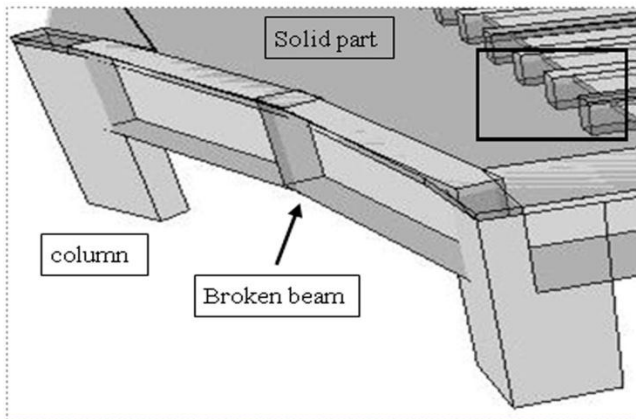
The connection between the solid part and hollow block ribs.

In need of more questions answered?

We are always on the alert to answer your queries and support your smooth transition to a better boundary element sense in analysis. Send us any queries or comments to our new [Questions & Answers] page and await our reply in the coming issue! *http://www.be4e.com/site/node/56* The form which you can fill out is shown below:

Scan me for quicker acces!