PLPAK NEWSLETTER

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Cores & Shear Walls in the PLPAK

The PLPAK continues to present unique tools to structural engineers and designers. Currently, supports with irregular geometries e.g. special columns, shear walls and cores are parts of the daily structural engineering practice. The modeling of such irregular supports has persisted to be a problem that faced structural engineers.

Being based on a true geometry boundary element model, the PLPAK presents an accurate and efficient solution for the real geometry modeling of any support shape including the most complicated ones. In addition, it provides tools that accurately calculate the total reactions over the irregular support using the "Assemblies" function in the PLPAK.

Figure 2: Wall Assembly window for core 1

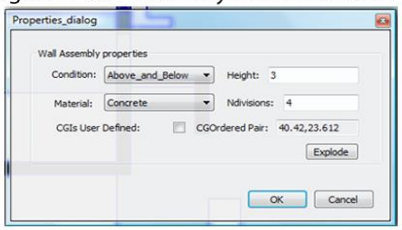


Figure 3: 3D View for the two cores

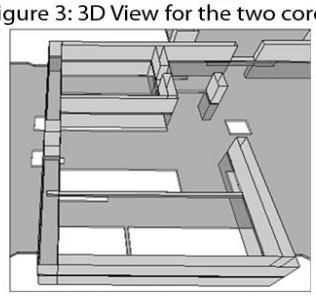


Figure 4: Wall Assembly window for core 2

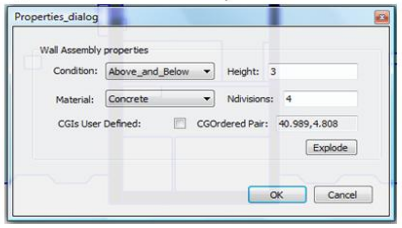


Figure 5: Another PLPAK model showing irrigular shear walls

Figure 1: Multi-thickness cores generated in PLGen

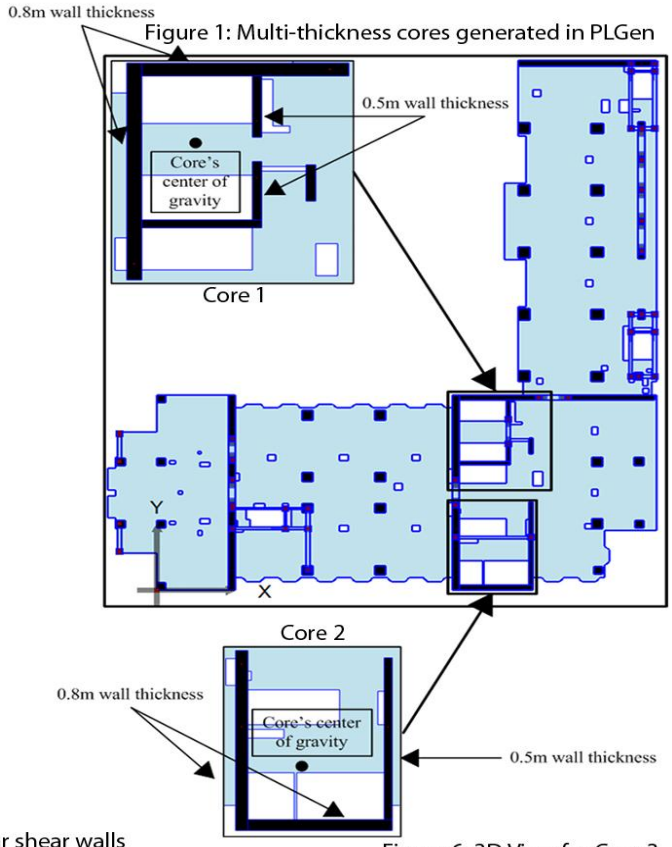


Figure 6: 3D View for Core 3

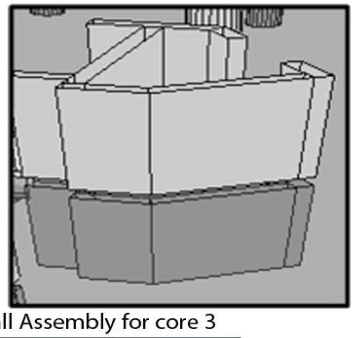
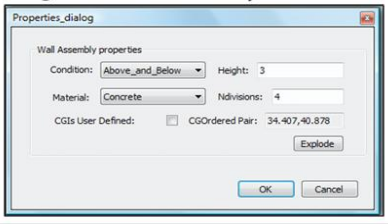


Figure 7: Wall Assembly for core 3



New coming: Boundary elements tutorials by Prof. Dr. Youssef F. Rashed

SPECIAL OFFER

Special prices are available exclusively for academics!

CONTACT:

Information about the PLPAK: info@be4e.com

Courses, seminars & consulting, webinars: services@be4e.com

Sales: sales@be4e.com

Research and developments: RnD@be4e.com

Customer support: support@be4e.com

DEVELOPMENT

The PLPAK software is in constant development to meet the needs of industrial and research purposes. Updates to the software will be posted monthly.

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You can now register on our website for more exclusive features related to boundary element analysis in structural engineering. Connect via this link: www.be4e.com , or you could use the following code on the right .

Figure 8: Straining actions for core 1

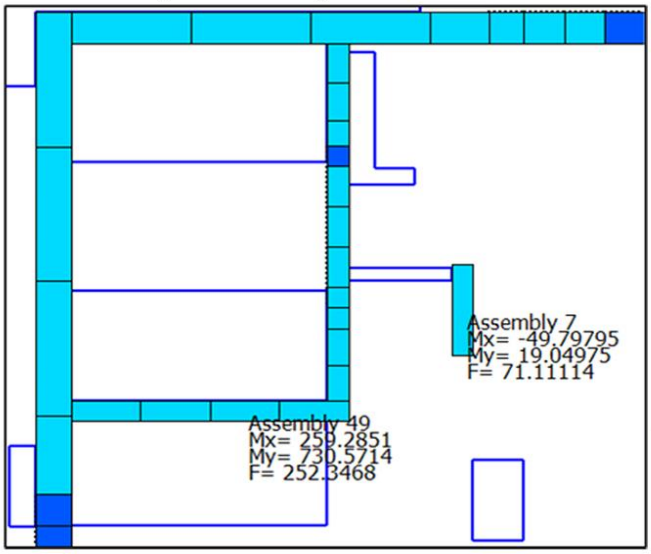


Figure 9: Straining actions for core 2

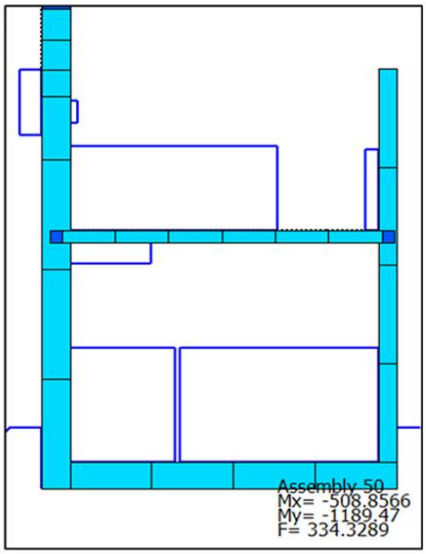
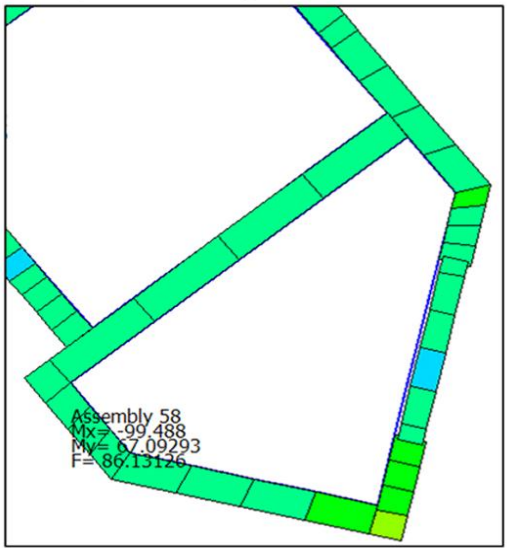


Figure 10 : Straining actions for core 3



Cores & Shear walls loads on Raft foundation:

In the case of modeling foundations, when the irregular walls act as loads, the PLPAK requires the input of the total applied load over the wall rather than the calculation of load cell reactions.

Figure 11: Load Assemblies on Raft foundation in PLGen

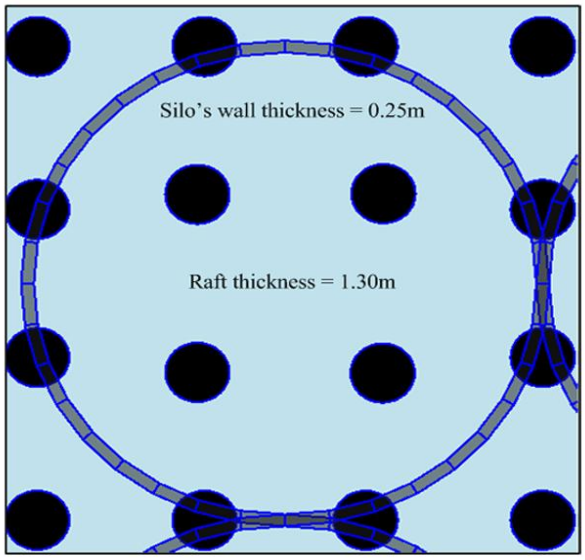
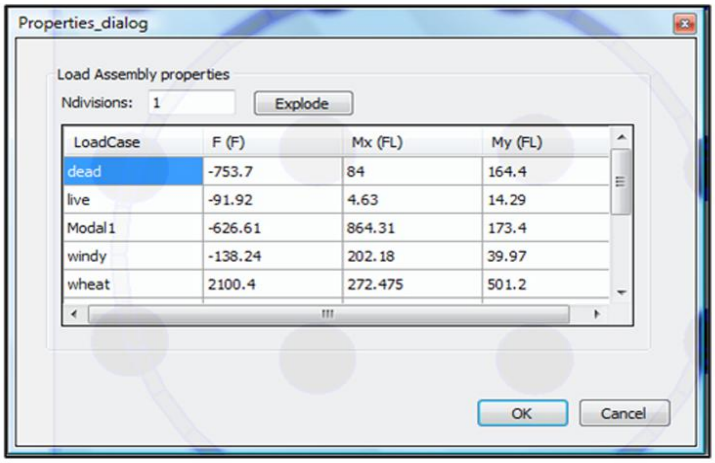
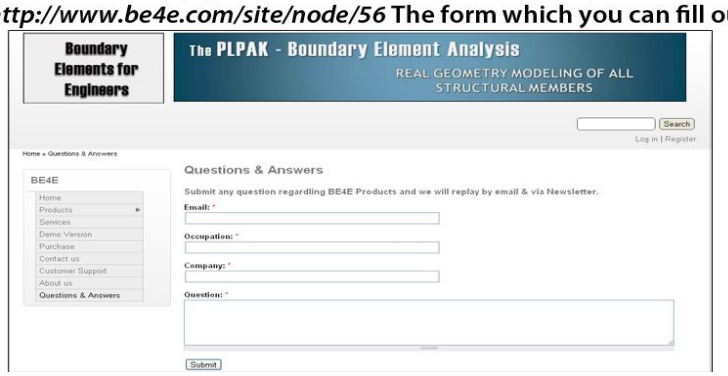


Figure 12: Load Assembly window which shows the load cases and it's load values.



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 betow:



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