

PLPAK NEWSLETTER

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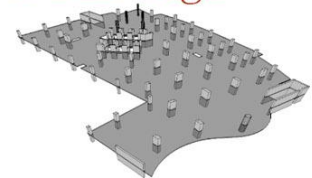


Thirty-Minute Practical Example

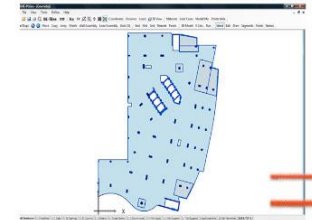
In 30 minutes a practical model was analysed, designed and detailed using the PLPAK & PLDesign

One of the most profound aspects of the PLPAK is the speed of achieving reliable results. A whole floor could be generated, analysed and designed within a matter of minutes. The following project is a partition in an industrial building. The reinforced concrete floor was processed in less than **30 minutes** using both the **PLPAK** and **PLDesign (Automated reinforced concrete design module)**.

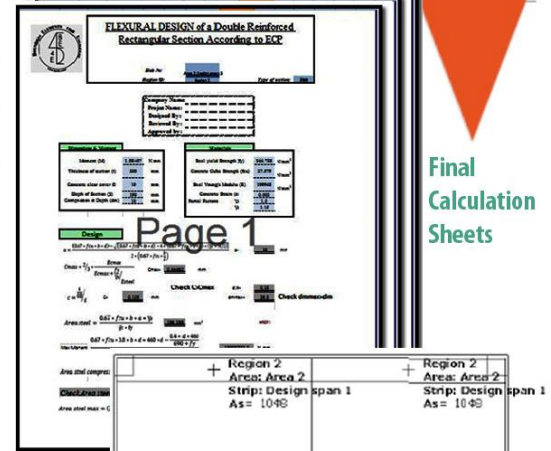
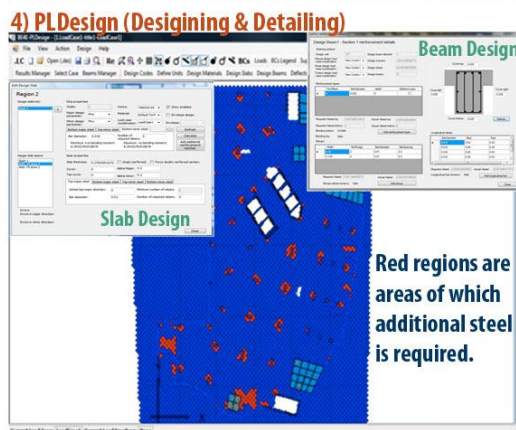
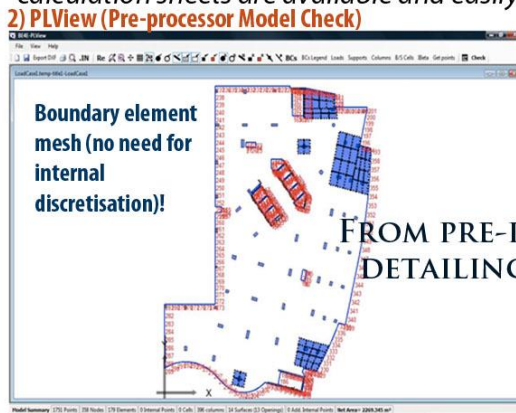
The structural elements (beams and slab) are designed using the **PLDesign**, with the possibility of exporting reinforcement details to any CAD program. Complete calculation sheets are available and easily exported.



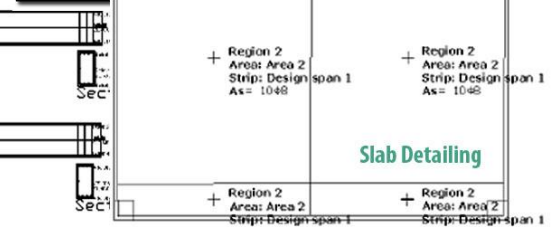
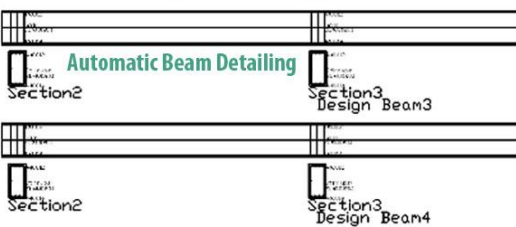
1) PLGen (Model Generator)



3) PLPost (Post-processor Displaying Results)



Final Calculation Sheets




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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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Q & A

Most asked questions? Here are the answers:

What is the PLPAK? The PLPAK is a special purpose structural analysis software based on the boundary element method (BEM). PLPAK can be used to solve building slabs (RC and Post-tensioned) and rafts on multi-layer soil.

What is BEM? BEM is the numerical technique that is adopted by the PLPAK. The main feature it offers is, that it doesn't require domain discretization (internal meshing) and requires much less processing time than similar methods.

What is the PLDesign? PLDesign is the RC design tool/component in the PLPAK. It furnishes complete design, calculation notes and detailed drawings for slabs and beam components. PLDesign deploys design based on the ACI, EC2, and ECOP. However, it is flexible to the extent that the user can define any new code and related parameters.

Why try the PLDesign? There are several new ideas introduced to the customary procedure of design, facilitating the outcome of designed sections that are more reliable and economic (since the modeling is more realistic). The PLDesign is also BIM-based, allowing any output to be post-processed on software like Revit and AutoCAD

What is new in PLDesign?

- Flexible slab design based on strip contour result
- Flexible slab design in the form of design strips or basic and additional steel
- Punching shear check for irregular shapes based on accurate shear stresses from the BEM.
- Every beam is defined and designed as a whole beam apart from its numerical model.

What is the form of the output? Calculations sheets are produced when finalizing the design are obtainable from the PLDesign (detailed and summarized). "Dxf" forms of the detailing layout could also be exported.

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:

Boundary Elements for Engineers

The PLPAK - Boundary Element Analysis

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