

Some screenshots from SCIA • Pipeline \bigcirc





You can find our new SCIA • Pipeline brochure in our

PROMOTIONS



SCIA recommends the recently published book by our colleague dr. Jaroslav Navratil: Structures'

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Steel and concrete members can be designed optimally. Optimisation of steel-cross sections is common practice since many years; the optimal design of reinforcement was made available more recently.

The simplest optimisation solver is the one that generates all possible sets of input parameters and calculates a goal function from all of them. Then the minimal (or maximum) goal value is found with the optimal set of input parameters. This operational mode is simple and reliable. If one calculates all possible variants, then one definitely finds the optimum. The only problem is that for systems with many parameters, the number of variants dramatically increases

This kind of "batch optimiser" is now available in SCIA. ESA PT. The user only defines limits for his parameters and the step of variation for the parameters. All variants are calculated and diagrams of the results are generated within the spreadsheet Excel.

You can read more in our white paper: "Overall optimal design of structures in SCIA•ESA PT 2007"

The German 'Public Works Building Sector' joins again with the European growth

After ten years of difficulties, the German 'Public Works Building Sector' has got out of a jam, as declared by the president of the German federation of the sector. The sector wishes to become again the growth engine of the first economy of the euro zone

"For the first time in a decade we see a revival, according to Hans-Peter Keitel, owner of Hochtief, the first 'Public Works Building' group of the country. We are on our way to turn from a sick child into the engine of the German economy", he added, also recalling that the building sector had always been one of the major forces of the country.

According to the figures from January to July, published by the federation, the amount of orders increased by 8,4%, while the sales turnover of the actors of the sector increased by 2,1%

For the whole of the year, the branch counts on a growth of the sales turnover of 2% after several years of retreat or stagnation, indicated Hans-Peter Keitel.

"Lately the German economy has grown spectacularly, this has not been equalled the last five years; the Public Works Building Sector has strongly contributed to this growth", the Minister of Economy, Michael Glos, declared, he also thinks that ten years of 'dive' in this branch will arrive to an end. The requests coming

from the new member states of the European Union also added to this boom in the building sector, according to Michael Glos, who predicts that "that will surely be similar with Romania and Bulgaria", of which the adhesion to the EU is planned for 2007.

F1 circuit of SPA - FRANCORCHAMPS

This project concerns the realization of the new infrastructure works (stands, parking places, paddocks, new chicanes...) for the F1 racetrack of SPA - FRANCORCHAMPS.

It includes

- the construction of a building with a total surface of 16.500 m², to be divided in:
 - 42 F1 stands of 125 m² each; the infrastructure for the FIA, FOM, Race Control, for the written and spoken press, social buildings, sanitary facilities...
 a paddock 'closed club' with a surface of 3.100 m²;

 - $^{\rm O}\,$ a paddock 'open club' with a surface of 5.500 m $^2;$
- the realization of grandstands to shelter about 20.000 people (all stands will be equipped with their own sanitary facilities);
- the realization of a new straight starting line of more than 500 meters of length; •
- the realization of a new chicane and required safety infrastructure works; this project is carried out in collaboration with the architect's firm bureaux d'Architecture ACTE 1 s.a. and bag s.a. of Ph. GREISCH.



Some figures:

- 150.000 m ³ of ground works;
 a F1 circuit in conformity with the most recent standards of the FIA and the FOM (2007);
- the longest F1 circuit of the world (6.976 meters);
- the total project will be about 25.000.000 €; the work must be finished before the next 'Grand Prix F1 of Belgium' in September 2007

The complete team:

- The companies Wust s.a., Besix s.a. and Bodarwé s.a. •
 - Engineering office for stability: beg s.a. (Greisch)
- Special techniques: Pierre Berger s.a.
- Architecture: Acte 1 s.a. and bag s.a.



Tips & Tricks: Overview drawings in circular line grids in SCIA • ESA PT

An easy tool in SCIA+ESA PT is the possibility to **automatically generate overview drawings** according to previously defined planes of the line grid.

However, while working with a circular line grid, it seems that the labels of the planes for which the overview drawings should be generated are not displayed, so it is impossible to see which plane number is needed.



This is due to the fact that, by default, the labels are displayed at the beginning of the grid lines. With circular line grids they all coincide at the centre of the grid. This would make the drawing very complex and thus the labels are omitted



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The solution is setting the labels at the end of the grid lines, instead of at the beginning. Opening the tab "Drawing setup" in the "line grid" manager can do this. Here the option 'labels' has to be set on "End" instead of "Beginning".

Now all labels are displayed and they can be clearly seen by the user.

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