

PERI CAD

The CAD program for professional work preparation

Product Brochure



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Important notes

All current safety regulations and guidelines must be observed in those countries where our products are used.

The photos shown in this brochure feature construction sites in progress and planning. For this reason, safety and anchor details in particular cannot always be considered as conclusive or final. These are subject to the risk assessment carried out by the contractor.

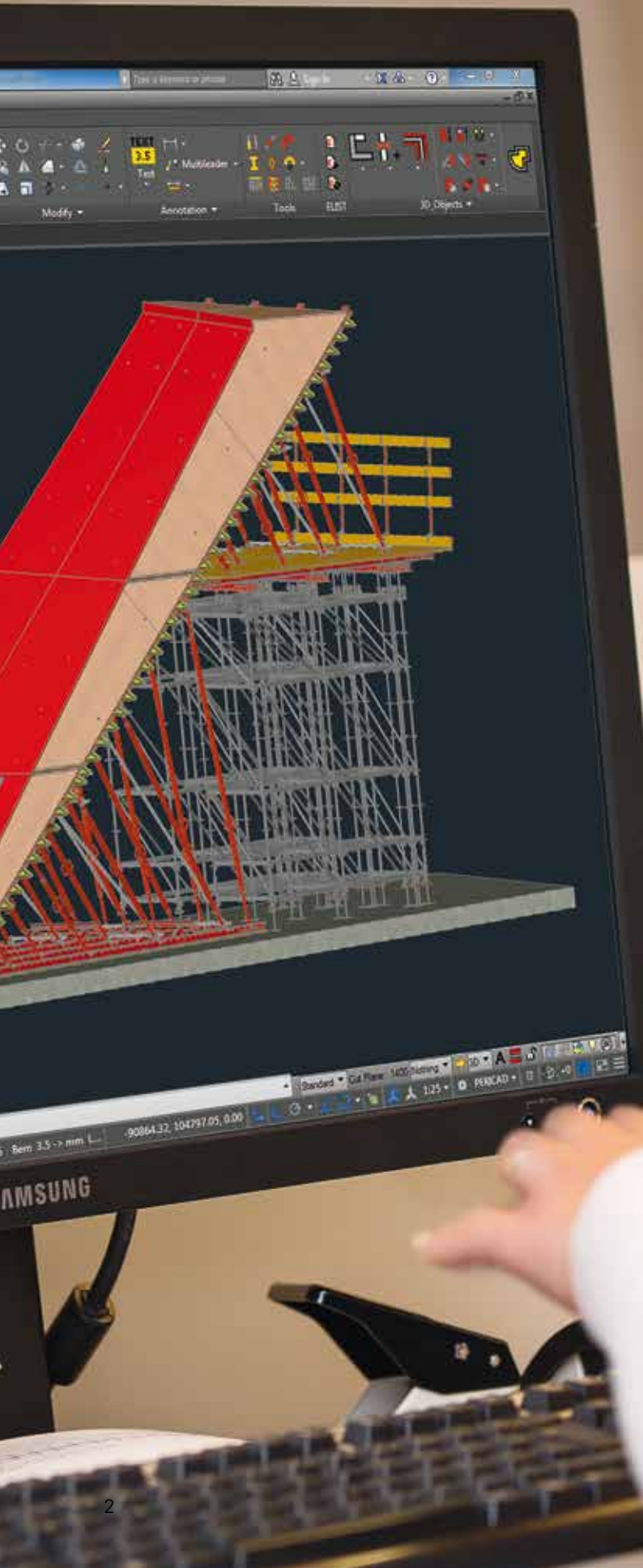
In addition, computer graphics are used which are to be understood as system representations. For ensuring a better understanding, these and the detailed illustrations shown have been partially

reduced to certain aspects. The safety installations which have possibly not been shown in these detailed descriptions must nevertheless be available.

The systems or items shown might not be available in every country.

Safety instructions and load specifications are to be strictly observed at all times. Separate structural calculations are required in case of changes and deviations.

The information contained herein is subject to technical changes in the interests of progress. Errors and typographical mistakes reserved.



Ernst Ruf, Planning Engineer
Matth. Schmid GmbH & Co. KG, Baltringen

“Before I started using PERI CAD, my knowledge in the CAD field was very limited. With PERI CAD, I can easily create simple 2D drawings but also design complex structures to the millimetre. In my 3D planning, I can readily access PERI product libraries, have easy-to-follow modeling steps in the desing process available and benefit from the availability of various PERI CAD tools. The rapid support provided by the experts in the CAD hotline is of great help – like all services provided by PERI.”

PERI CAD

The CAD program for professional work preparation

PERI CAD is the perfect tool for experienced CAD users to produce professional formwork and scaffolding designs. PERI CAD allows users to create precise 3D models, to develop professional drawings for usage on construction sites in an easy-to-understand way, and to compile accurate material lists to meet the requirement of construction site logistics on schedule.

You can use PERI CAD to create formwork and scaffolding solutions for all kinds of projects. The spectrum ranges from a simple ground plan for residential and office buildings to complex civil engineering structures. PERI CAD accelerates work preparation processes

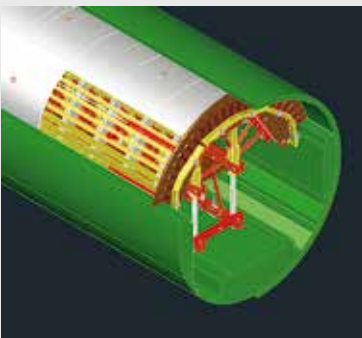
with sophisticated mechanisms, from simple planning tools to fully automated formwork solutions. There are additional tools available which help you to design layouts in an easy way.

Complicated areas are detected during the planning phase and can be resolved using the software, avoiding delays on the construction site. Something that is becoming ever more relevant in times of tight schedules and stricter regulations as regards completion dates.

The plans in PERI CAD can be created in all sizes and levels of detail in line with international standards. Interfaces to accounting and tender preparation

are simplified thanks to direct export of parts lists in standardised data formats.

Over 1,300 PERI engineers worldwide use PERI CAD every day providing evidence of the software's perfect suitability in international project business.



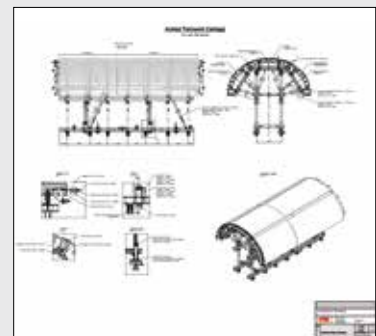
Prompt detailed planning

The automated processes, the PERI CAD Center, and an electronic parts catalogue provided by PERI CAD make easy and rapid formwork planning possible. Elaborate formwork and scaffolding solutions can also be realised in 3D.

Item No.	Description	Quantity	Material
1	Formwork Panel 1.2x2.4m	150	PERI 1000
2	Vertical Scaffolding Pole	200	PERI 1000
3	Horizontal Scaffolding Pole	180	PERI 1000
4	Diagonal Bracing	120	PERI 1000
5	Support Base	100	PERI 1000

Reduced costs

The formwork and scaffolding quantities actually needed can be determined and optimised according to the specific factors of a project. Exact parts lists and the linked construction process ensure that the construction site is supplied with the required materials. In this way, the materials are optimally utilized.

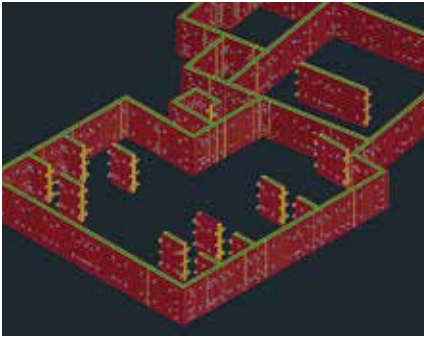


Illustrative presentation

Easily understandable and clear plans accelerate work on the construction site. 3D representation can be created quickly and easily using simple tools, resulting in better visualisation.

Efficient formwork and scaffold planning

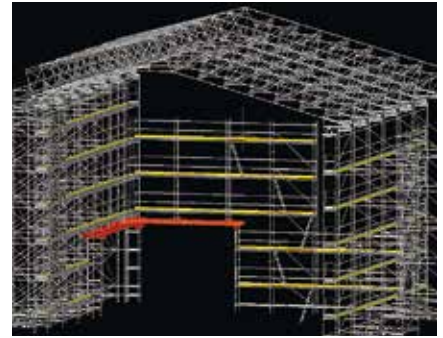
Automated processes for planning walls, slabs and scaffolding



PERI CAD includes the complete functionality of PERI ELPOS. However, PERI CAD offers many other possibilities for supplementing the 2D and 3D plans with automatic formwork solutions. It includes automated processes for the most diverse wall formwork systems.

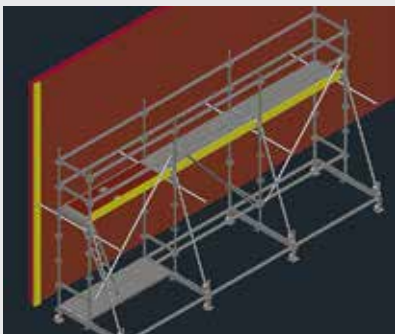


The slab formwork automated process creates solutions for MULTIFLEX and SKYDECK in pre-defined slab areas. Changes can be realised easily using 2D commands. Other slab formwork systems can be created efficiently using dynamic blocks.

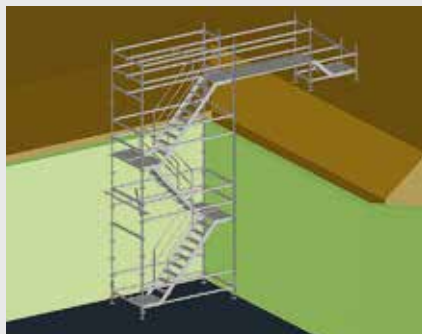


Automated processes are also available to create scaffolding applications. For example, PERI UPT 72 or PERI UP Flex facade scaffold structures as well as PERI UP Rosett light-weight shoring applications can readily be generated.

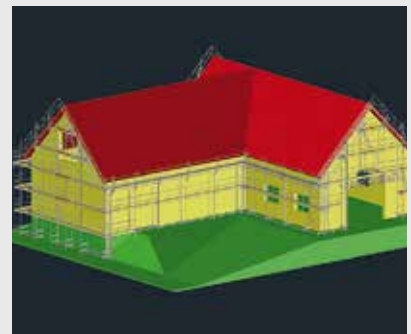
Simple tools to create reinforcement, access and facade scaffolding



Reinforcement scaffolding can be integrated into the planning for wall formwork using a 3D output.



The access points for the various construction site areas can be created quickly and easily for different purposes and heights.



With PERI CAD, PERI facade scaffold applications can be generated automatically. The building in this example was scaffolded using PERI UPT 72 with the solution modified manually at some points.

Prompt detailed planning

All articles ready for use in the PERI CAD Center

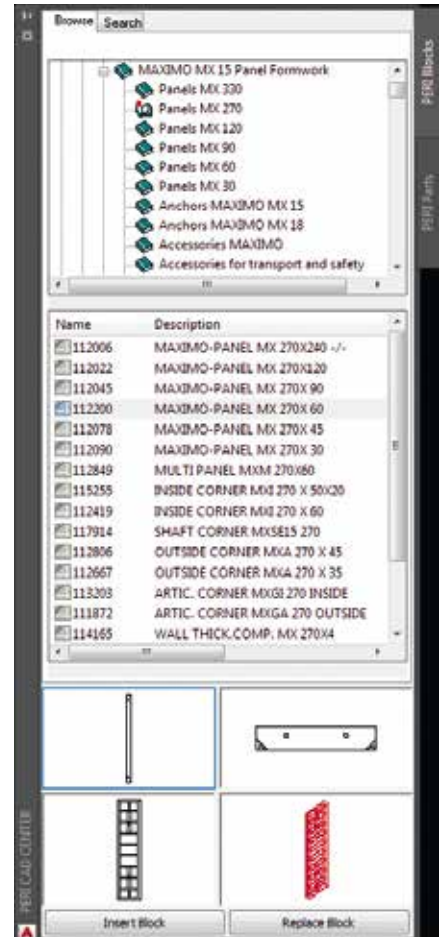
The electronic parts catalogue PERI CAD Center provides all PERI standard articles to insert parts in drawings. Parts can be added to a drawing very quickly thanks to a clear structure and simple drag and drop, and then counted using the PERI parts list functionality.

All articles are added as CAD blocks in the various views. This gives users a very extensive library to draw on in their everyday work. A clear overview is ensured by sorting in systems and the equivalent structure in the PERI program overview.

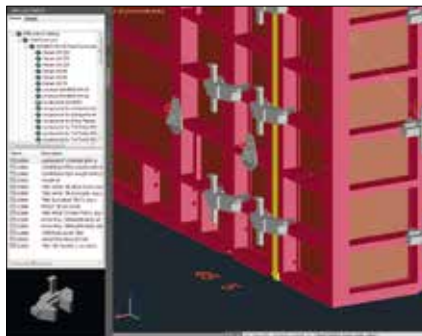
Dynamic blocks for various slab formwork systems are also offered. These simplify free planning of systems thanks to expanded functionalities and can be combined as desired with 2D blocks.

PERI components for 3D planning are also included in the PERI CAD Center. You can use these components developed by PERI to create complicated 3D solutions quickly and easily.

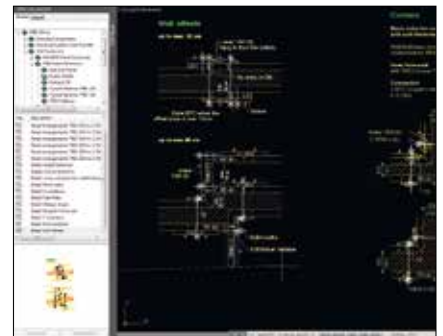
Product-specific notes are also available for designing layouts. These provide the right tips on the construction site and are indispensable accordingly.



The PERI CAD Center helps users developing 2D designs to amplify automatically created solutions or concepts created with dynamic blocks.



Fast additions and changes to solutions in every detail.



Important notes and poster details can be added from the PERI Office Directory.

Reduced costs

Save time on work preparation thanks to simple add-on functions

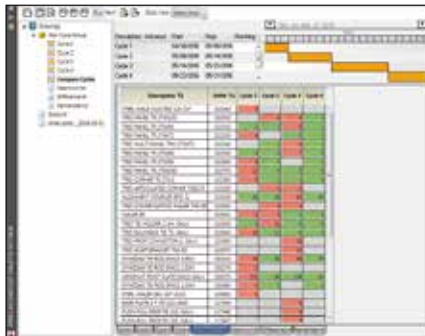
The parts list functions in PERI CAD offer extensive possibilities for simple and fast creation of material requirement lists for the planning engineer. The parts lists can be exported via various interfaces to logistics programs and for integration in drawings.

The time-dependent parts list facilitates detailed planning of constructions by concreting cycles. In addition to the parts lists for individual concreting cycles, the system also includes a cycle comparison, a maximum list and a schedule. The time planner can be used to illustrate the construction sequence and save it in the drawing. The requirement for formwork and scaffolding material can be optimised on a project-specific basis – this makes the best possible use of the material.

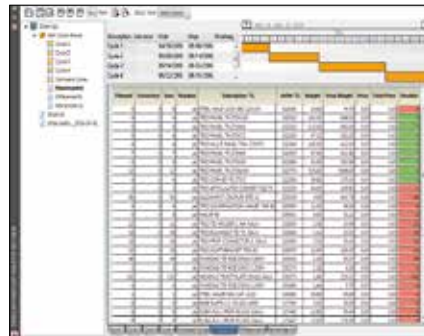
The screenshot displays the PERI CAD interface. On the left, a tree view shows 'Wall Cycle Group' with sub-items for Cycle 1, Cycle 2, Cycle 3, and Cycle 4, along with options like 'Compare Cycles', 'Maximumlist', 'Differencelist', 'Rememberlist', and 'Stocklist'. The main window features a Gantt chart at the top with columns for 'Description', 'Advance', 'Start', 'Stop', and 'Finishing'. Below the chart is a table with the following data:

Description	Advance	Start	Stop	Finishing
Cycle 1		04/30/2016	05/08/2016	
Cycle 2		05/08/2016	05/14/2016	
Cycle 3		05/14/2016	05/22/2016	
Cycle 4		05/22/2016	05/31/2016	

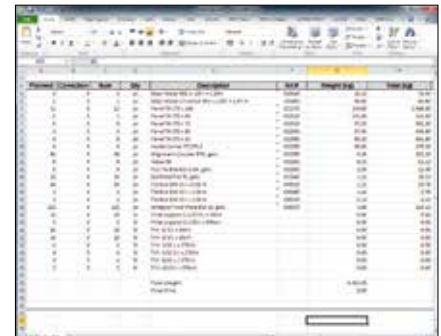
Below the Gantt chart is a detailed parts list table with columns: 'Planned', 'Correction', 'Sum', 'Number', 'Description', 'ArtNr', 'Weight', and 'Total Weight'. The table lists various materials such as 'STEEL WALE U100 SRZ 120 CM', 'STEEL WALER SRU 247 U120', 'TRIO PANEL TR 270X60', etc., with their respective quantities and weights.



The concreting cycle overview serves to optimise the formwork and scaffolding elements in the different cycles.



The maximum list presents the comparison between planning and the defined inventory. This enables specific saving potentials to be exploited.



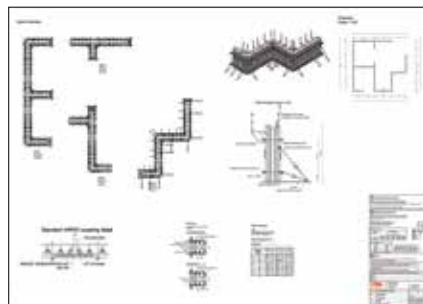
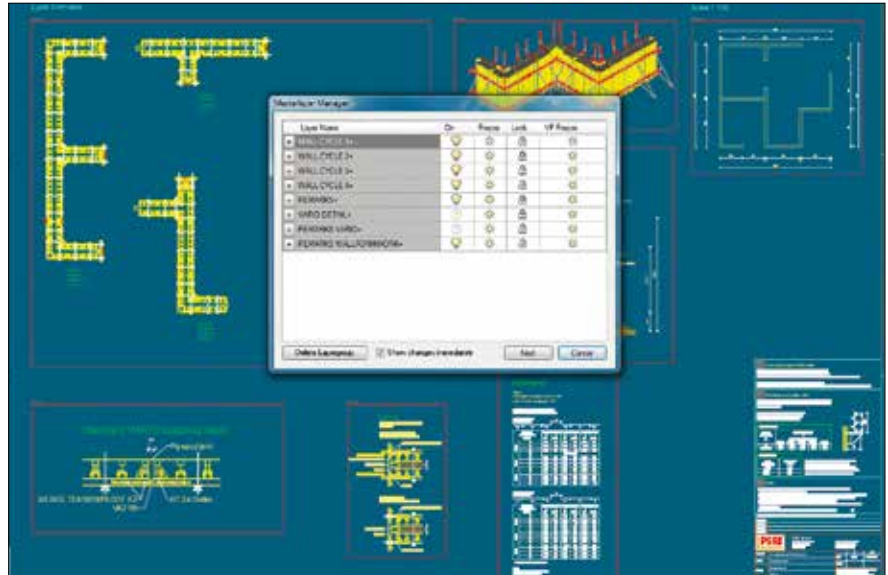
The simple Excel parts list is used to create parts lists without the perfected scheduling and cycle planning. Open Office can also be used in addition to MS Excel.

Illustrative presentation

Clear plans accelerate work on the construction site

The layout design tools in PERI CAD are enormously helpful to users, as the focus lies on designing and planning.

Predefined layouts, typical sections and notes make designing layouts much simpler in PERI CAD. Thanks to the unique layer concept of master and sublayers, extensive control capabilities arise in the drawing area and when creating layouts. The advantages of the dimensioning functionality in PERI CAD also help to create a faster result that is better suited to the construction site. 3D representation can be created quickly and easily using the simple tools. These ensure improved visualisation of the planning solution.



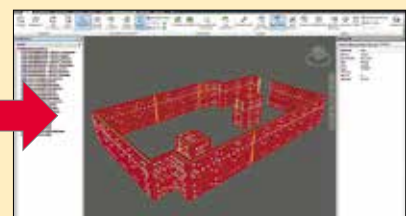
Integration of PERI CAD in the BIM process



Structural models can be imported into PERI CAD via the manufacturer-independent IFC interface – demonstrated here using an example from Autodesk Revit.



The formwork and scaffolding solutions are created with the extensive functions in PERI CAD.



The resulting Formwork model can be stored locally for further use or be exported directly to Navisworks and Autodesk BIM 360 Glue.

About our PERI CAD services

More than just software



As a partner to our customers, we always provide a comprehensive range of services for our products and systems – this also applies to our software.

Basically, PERI CAD is easy and intuitive to use with basic AutoCAD skills. In addition, easy-to-understand documentation supports the PERI CAD users in learning to use the software on their own.

In order that the introduction to the planning on the PC works even better, we provide additional training courses.

We would be pleased to arrange a customized training programme designed to meet the special requirements of our customers in all aspects.

Our team of experts is available for both introductory training as well as improving existing knowledge. Answers to users' questions and practical assistance is likewise provided via the CAD hotline.

PERI CAD trial version

First test it – then buy it

You can convince yourself of the capability of our software and find out whether the program meets your requirements before purchasing.

PERI CAD is available for testing as a demo version without any restrictions for a 30-day period. During this time, you can extensively test the software for your applications, and use our support hotline if you have any questions.

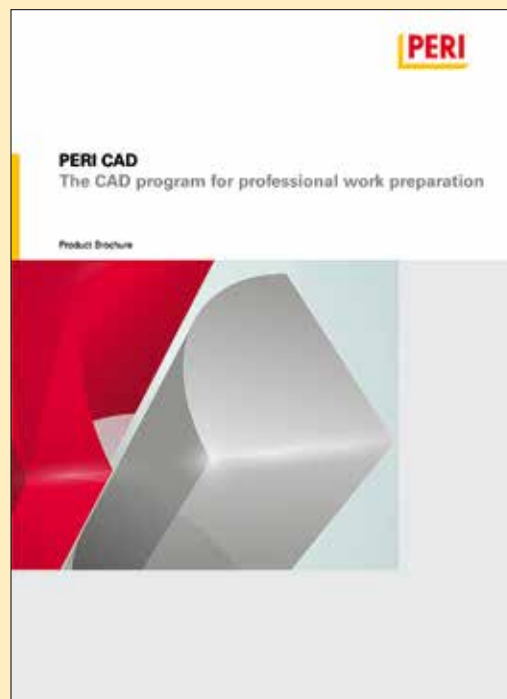
When ordering the demo version, please contact your PERI sales engineer or CAD hotline which you can also contact if you have any questions regarding the installation and handling:

CAD hotline

Tel. +49 (0)7309.950-8888

Fax +49 (0)7309.951-8888

cad.hotline@peri.de



Licence purchase

Has this demo version convinced you?
Then order the licence from your local PERI sales engineer.

Take advantage of PERI's experience in your work preparation by benefiting from the many advantages of our **PERI CAD** software.

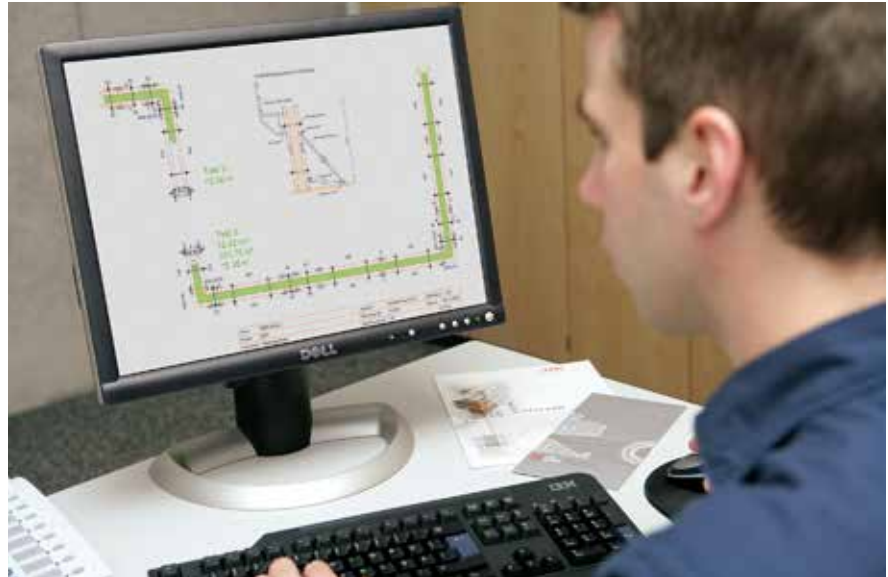
PERI ELPOS for formwork and scaffolding planning

The fast and easy software for standard applications

With ELPOS, planning the use of PERI formwork and scaffolding systems can be carried out quickly and easily without any knowledge of CAD. Planning with ELPOS results in practice-oriented drawings and project-related parts lists which optimize and accelerate execution on the construction site.

The focus of the software is on reducing the amount of work involved for the planning of everyday applications – from simple floor plans for residential and office buildings through to more complex industrial structures or smaller infrastructure projects. Laborious graphic drawings of detailed solutions are only secondary. Basis of the ELPOS software is the DWG data format, and existing architectural plans can likewise be easily read in DXF format.

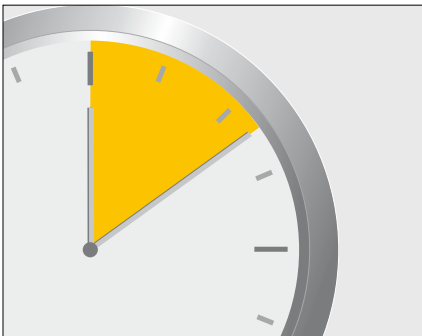
Forming of simple floor layouts with standard systems can be automated as far as possible. In the process, all of the required rules are automatically taking into consideration and applied. The electronic catalogue contains typical standard sections whose representations accelerate the work on the construction site.



Simple icons and intuitive operation characterize the ELPOS software. Planning is very simple and fast – for every user – even those with no CAD experience.

In addition, the 3D representation facilitates the on-site implementation. Planning results with ELPOS are clear, easy-to-read drawings and accurate parts lists for the material planning created by only one click – optimized for the use on standard equipment.

PERI technical advisers in the field as well as engineers use ELPOS for easy planning procedures. The software is constantly being enhanced, and plan-able systems along with their rules are continuously adjusted.



Planning with very little effort

The automatism together with the electronic component catalogue make formwork planning easy and very fast. After a short period of familiarization, each user can begin to plan with just a few clicks and a minimum of effort.

Description	Qty	Weight	Total Weight	Price	Total Price
1. Aluminum Clamping (200 x 200)	100000	1.20	120000	0.00	0.00
2. Head 20	100000	0.05	5000	0.00	0.00
3. Tie Rod (200 x 200) 400	100000	0.05	5000	0.00	0.00
4. Tie Rod (200 x 200) 500	100000	0.05	5000	0.00	0.00
5. Tie Rod (200 x 200) 600	100000	0.05	5000	0.00	0.00
6. Tie Rod (200 x 200) 700	100000	0.05	5000	0.00	0.00
7. Tie Rod (200 x 200) 800	100000	0.05	5000	0.00	0.00
8. Tie Rod (200 x 200) 900	100000	0.05	5000	0.00	0.00
9. Tie Rod (200 x 200) 1000	100000	0.05	5000	0.00	0.00
10. Tie Rod (200 x 200) 1100	100000	0.05	5000	0.00	0.00
11. Tie Rod (200 x 200) 1200	100000	0.05	5000	0.00	0.00
12. Tie Rod (200 x 200) 1300	100000	0.05	5000	0.00	0.00
13. Tie Rod (200 x 200) 1400	100000	0.05	5000	0.00	0.00
14. Tie Rod (200 x 200) 1500	100000	0.05	5000	0.00	0.00
15. Tie Rod (200 x 200) 1600	100000	0.05	5000	0.00	0.00
16. Tie Rod (200 x 200) 1700	100000	0.05	5000	0.00	0.00
17. Tie Rod (200 x 200) 1800	100000	0.05	5000	0.00	0.00
18. Tie Rod (200 x 200) 1900	100000	0.05	5000	0.00	0.00
19. Tie Rod (200 x 200) 2000	100000	0.05	5000	0.00	0.00
20. Tie Rod (200 x 200) 2100	100000	0.05	5000	0.00	0.00
21. Tie Rod (200 x 200) 2200	100000	0.05	5000	0.00	0.00
22. Tie Rod (200 x 200) 2300	100000	0.05	5000	0.00	0.00
23. Tie Rod (200 x 200) 2400	100000	0.05	5000	0.00	0.00
24. Tie Rod (200 x 200) 2500	100000	0.05	5000	0.00	0.00
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26. Tie Rod (200 x 200) 2700	100000	0.05	5000	0.00	0.00
27. Tie Rod (200 x 200) 2800	100000	0.05	5000	0.00	0.00
28. Tie Rod (200 x 200) 2900	100000	0.05	5000	0.00	0.00
29. Tie Rod (200 x 200) 3000	100000	0.05	5000	0.00	0.00
30. Tie Rod (200 x 200) 3100	100000	0.05	5000	0.00	0.00
31. Tie Rod (200 x 200) 3200	100000	0.05	5000	0.00	0.00
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35. Tie Rod (200 x 200) 3600	100000	0.05	5000	0.00	0.00
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40. Tie Rod (200 x 200) 4100	100000	0.05	5000	0.00	0.00
41. Tie Rod (200 x 200) 4200	100000	0.05	5000	0.00	0.00
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44. Tie Rod (200 x 200) 4500	100000	0.05	5000	0.00	0.00
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47. Tie Rod (200 x 200) 4800	100000	0.05	5000	0.00	0.00
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49. Tie Rod (200 x 200) 5000	100000	0.05	5000	0.00	0.00
50. Tie Rod (200 x 200) 5100	100000	0.05	5000	0.00	0.00
51. Tie Rod (200 x 200) 5200	100000	0.05	5000	0.00	0.00
52. Tie Rod (200 x 200) 5300	100000	0.05	5000	0.00	0.00
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57. Tie Rod (200 x 200) 5800	100000	0.05	5000	0.00	0.00
58. Tie Rod (200 x 200) 5900	100000	0.05	5000	0.00	0.00
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60. Tie Rod (200 x 200) 6100	100000	0.05	5000	0.00	0.00
61. Tie Rod (200 x 200) 6200	100000	0.05	5000	0.00	0.00
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65. Tie Rod (200 x 200) 6600	100000	0.05	5000	0.00	0.00
66. Tie Rod (200 x 200) 6700	100000	0.05	5000	0.00	0.00
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68. Tie Rod (200 x 200) 6900	100000	0.05	5000	0.00	0.00
69. Tie Rod (200 x 200) 7000	100000	0.05	5000	0.00	0.00
70. Tie Rod (200 x 200) 7100	100000	0.05	5000	0.00	0.00
71. Tie Rod (200 x 200) 7200	100000	0.05	5000	0.00	0.00
72. Tie Rod (200 x 200) 7300	100000	0.05	5000	0.00	0.00
73. Tie Rod (200 x 200) 7400	100000	0.05	5000	0.00	0.00
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77. Tie Rod (200 x 200) 7800	100000	0.05	5000	0.00	0.00
78. Tie Rod (200 x 200) 7900	100000	0.05	5000	0.00	0.00
79. Tie Rod (200 x 200) 8000	100000	0.05	5000	0.00	0.00
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81. Tie Rod (200 x 200) 8200	100000	0.05	5000	0.00	0.00
82. Tie Rod (200 x 200) 8300	100000	0.05	5000	0.00	0.00
83. Tie Rod (200 x 200) 8400	100000	0.05	5000	0.00	0.00
84. Tie Rod (200 x 200) 8500	100000	0.05	5000	0.00	0.00
85. Tie Rod (200 x 200) 8600	100000	0.05	5000	0.00	0.00
86. Tie Rod (200 x 200) 8700	100000	0.05	5000	0.00	0.00
87. Tie Rod (200 x 200) 8800	100000	0.05	5000	0.00	0.00
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90. Tie Rod (200 x 200) 9100	100000	0.05	5000	0.00	0.00
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98. Tie Rod (200 x 200) 9900	100000	0.05	5000	0.00	0.00
99. Tie Rod (200 x 200) 10000	100000	0.05	5000	0.00	0.00

Optimized material utilization

Formwork and scaffolding material requirements, including all accessories, are optimized accordingly. Accurate parts lists ensure that the construction site is supplied with the required materials and logistical processes are kept to a minimum. In this way, the materials are optimally utilized.



Safe execution with a high level of efficiency

Easy-to-understand plans simplify and accelerate the use on the construction site. Each system component is always placed in the right position. Complicated areas are recognised and already dealt with in the planning phase. This avoids the need for improvisation on the construction site.

A comparison of PERI software

System requirements and areas of application

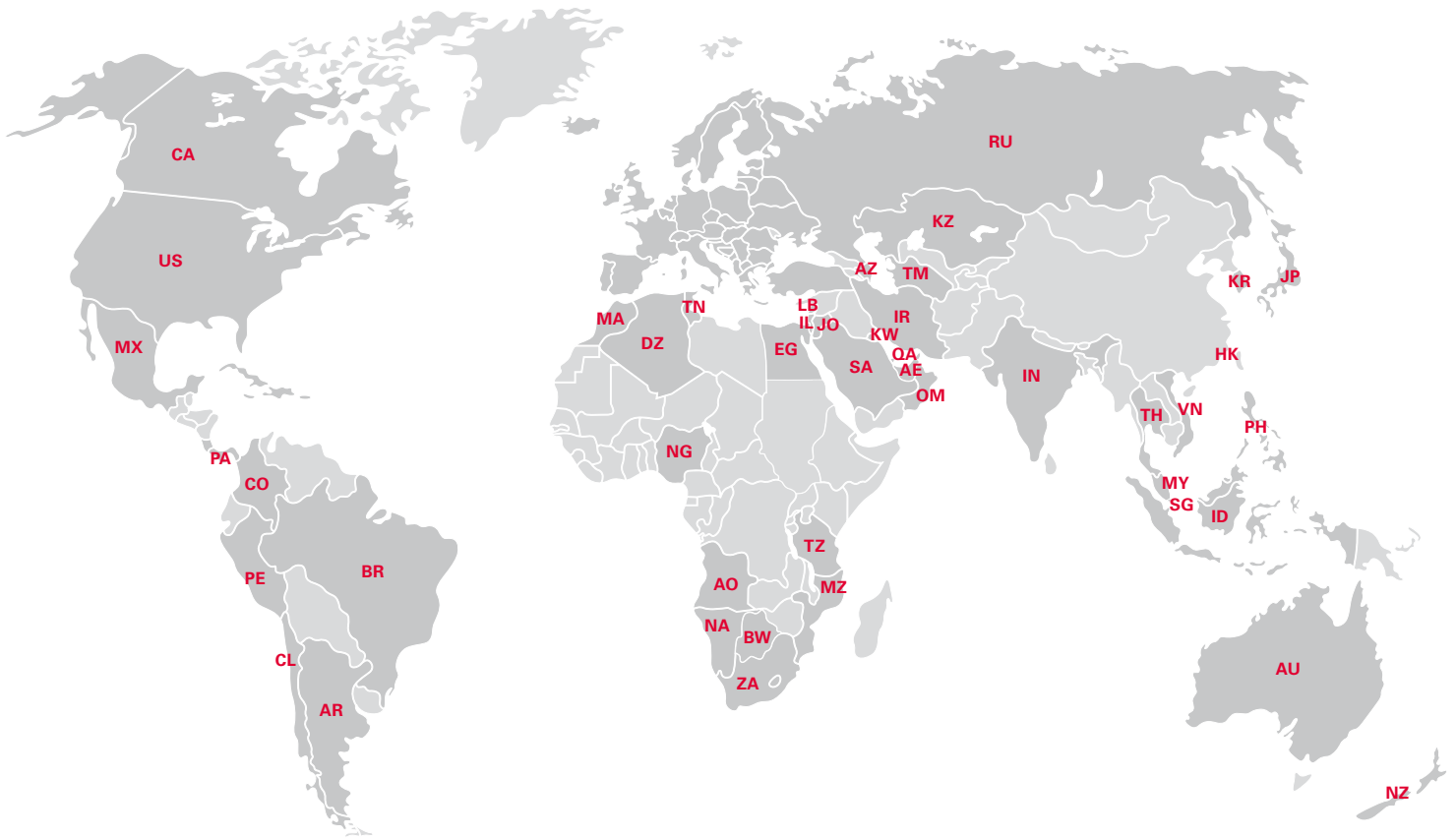
		ELPOS	PERI CAD 20	
Short description		ELPOS is the quick and easy planning help for daily work preparation. The software provides automatic support for standard systems and basic functions when carrying out manual adjustments.	PERI CAD is an AutoCAD® Architecture® based application for the professional planning of PERI formwork and scaffolding systems. PERI CAD is installed as a supplement to AutoCAD® Architecture® 2015 (with SP 2) and thus provides, in addition to the extensive CAD functions, the PERI tools for formwork and scaffolding planning.	
Required user knowledge		Basic PC skills	Good to very good knowledge of AutoCAD®	
PERI Formwork Systems		TRIO 270, TRIO 330, DOMINO 250, DOMINO 275, DOMINO 300, MAXIMO 270, MAXIMO 330, VARIO Standard, RUNDFLEX, RUNDFLEX Plus, SKYDECK, FB Folding Platform, MULTIFLEX, HD 200, ST 100, MULTIPROP System	TRIO 270, TRIO 330, DOMINO 250, DOMINO 275, DOMINO 300, MAXIMO 270, MAXIMO 330, VARIO Standard, SKYDECK, MULTIFLEX, Timber, Girders, Slab Props, Push-Pull Props, MP Tower, HD 200, ST 100, VST, PD 8, RUNDFLEX Plus, RUNDFLEX, GRV – all other PERI formwork systems manually	
PERI scaffold systems		Facade Scaffold PERI UPT 72 / T 104 Facade Scaffold PERI UP Rosett R 72 / R 104 Facade Scaffold PERI UP Flex PERI UP Access Technology Alu/Steel Reinforcement Scaffold PERI UP Rosett and PERI UP Flex Light Shoring Systems PERI UP Rosett	Facade Scaffold PERI UPT 72 / T 104 Facade Scaffold PERI UP Rosett R 72 / R 104 Facade Scaffold PERI UP Flex, PERI UP Access Stairs aluminum/steel, PERI UP Rosett reinforcement scaffold and PERI UP Flex Lightweight Shoring PERI UP Rosett, Shoring Systems PERI UP Rosett, PERI UP scaffold bridges for power cables – all other PERI scaffolding systems manually	
System requirements	Hardware	Processor	Intel® Pentium® 4 or AMD Athlon™ with 3 GHz or better	AMD Athlon™ 64 with SSE2 technology AMD Opteron™ with SSE2 technology Intel Xeon® with Intel EM64T support and SSE2-technology Intel Pentium® 4 with Intel® EM64T support and SSE2 technology or better
		Memory	3 GB RAM (recommended: 4 GB)	Min. 8 GB RAM (recommended: 16 GB)
		Video card	High-performance video card with DirectX support and min. 256 MB RAM memory (512 MB recommended)	High-performance video card with DirectX 11 support and min. 1024 MB RAM memory recommended: Nvidia® Quadro® K 2200 with 4 GB for standard users, Nvidia® Quadro® K 4200 with 4 GB or Nvidia® Quadro® K 5200 with 8 GB for enhanced application. For more information on alternative certified hardware, visit the Autodesk website.
		Monitor	Minimum 1280x1024 (SXGA-resolution)	Minimum 1280x1024 (SXGA-resolution)
		Installation medium	DVD drive	DVD drive
		Mouse	IntelliMouse® (recommended)	IntelliMouse® (recommended)
	Software	Operating system	Windows 7 Professional, Windows 7 Home	Windows 7, Windows 8.1, Windows 10 (Hotfix for Windows 10 available on Autodesk® Homepage)
		Programs	Internet Explorer® 7 or higher Microsoft Excel® for parts lists	Internet Explorer® 9 or higher Microsoft Excel® for parts lists
Training requirements		Not absolutely necessary; if required: Basic seminar for beginners Workshop for advanced level participants	Recommended: 2-day basic seminar for beginners 2-day seminar for users updating PERI CAD 1-day workshop for advanced level participants	
Handbook / Help		Handbook (German / English), Online help (German / English) Quick guide (German / English)	Handbook (German / English), Online help (German / English)	
Trial version		Unrestricted 30 days trial version	Unrestricted 30 days trial version	
Free licenses for training (schools, universities)		Evidence required usage period 1 year	Evidence required usage period 1 year	

Important notes

- PERI CAD includes the functions from ELPOS.
- Those who work with PERI CAD do not require ELPOS.
- ELPOS and PERI CAD cannot be installed together on the same computer.

For any other questions, comprehensive support and advice is provided via the CAD hotline:
Tel.: +49 (0)7309.950-8888 | Fax: +49 (0)7309.951-8888 | cad.hotline@peri.dede

PERI International



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