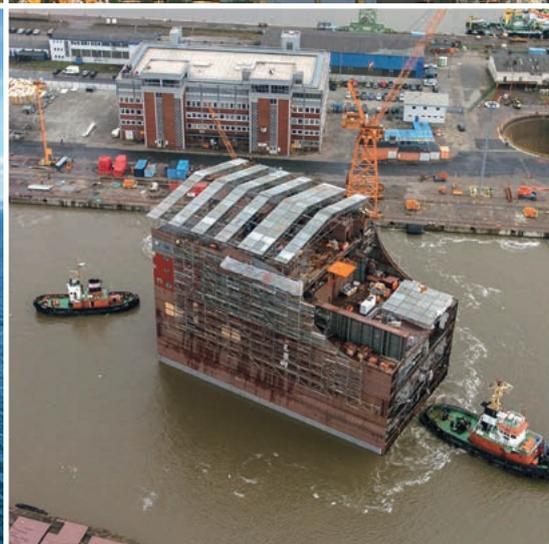
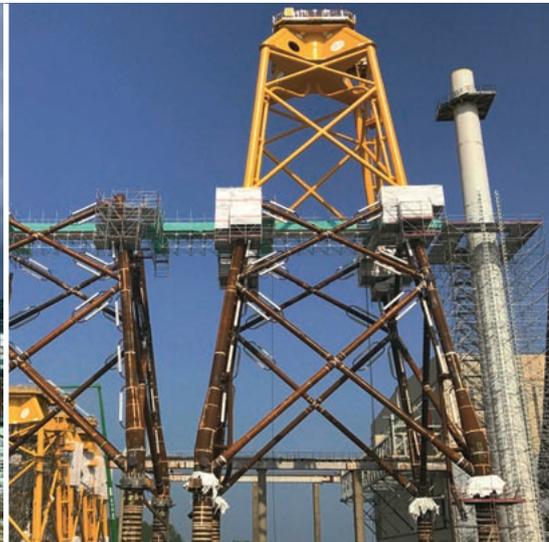


LAYHER ALLROUND SCAFFOLDING® SHIPYARDS AND OFFSHORE SOLUTIONS



Edition 08.2024
Ref. No. 8116.205

Quality management
certified according to
DIN EN ISO 9001

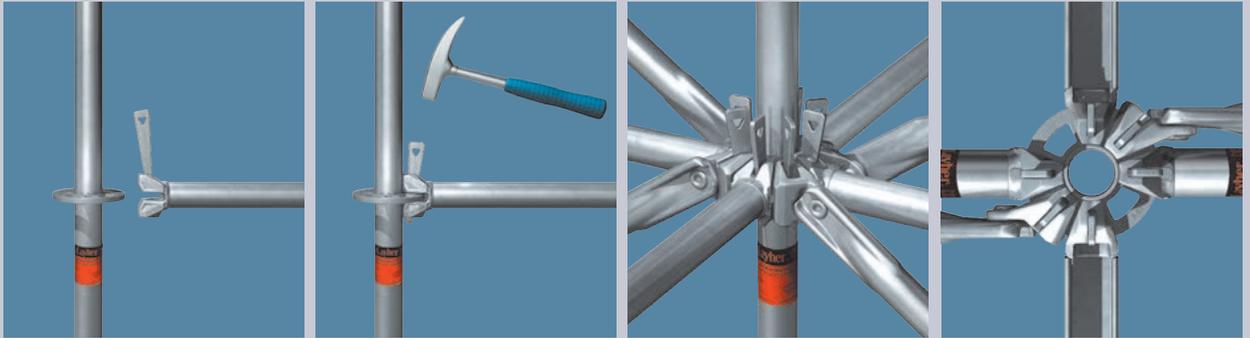
Energy management
certified according to
DIN EN ISO 50001

Environmental
management certified
according to
DIN EN ISO 14001



LAYHER ALLROUND SCAFFOLDING®

THE ORIGINAL

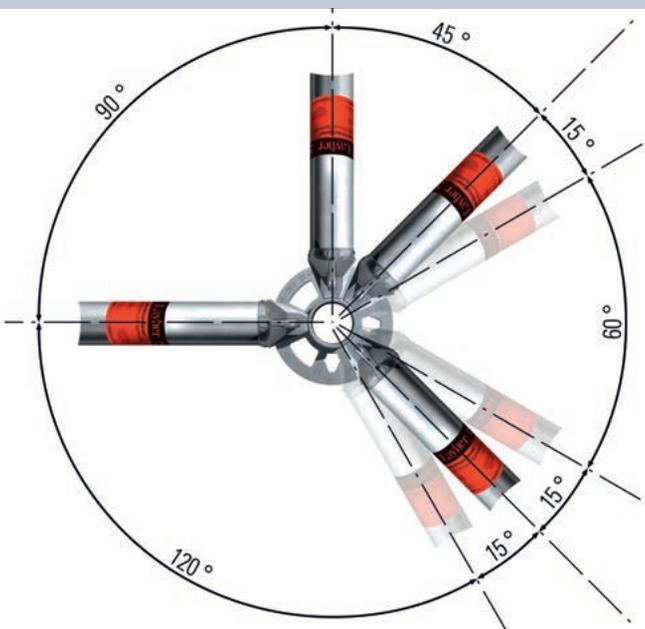


Allround equipment features a simple, unique and bolt-free connection technology. When the wedge head is pushed over the rosette, the wedge drops automatically into the recess thanks to the innovative AutoLock function and is immediately secured against being moved or falling out.

A hammer blow on the wedge transforms the positive connection into a non-positive one. The end face of the wedge head is now positioned precisely at the standard.

The result of superior engineering. Up to eight connections can be made in the structurally ideal Allround connector, on one level and at various angles. Attachment is possible at the standard dimension intervals of 50 cm on all Allround standards. The flat rosette prevents clogging by dirt of any type.

Ingenious connection technology. The four small punched-out openings in the rosette automatically centre the ledger at right angles – the four large openings permit alignment with free selection of the angle.



Ideal transmission of high forces coupled with low weight.

The wedge head and standard are harmonised in such a way that the ledger loads to be absorbed are transmitted directly to the centre of the standard. The following approvals are available for Layher Allround Scaffolding: Z-8.22-64, Z-8.22-64.1, Z-8.22-939, Z-8.22-949, Z-8.1-919 as well as other international approvals.

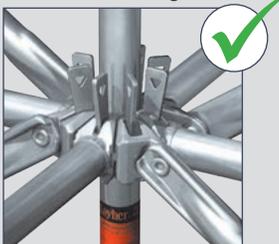
Ingenious technology for efficient working.

The proven combination of positive and non-positive connections in a rapid and bolt-free system technology with AutoLock function facilitates connections that are automatically right-angled, obtuse-angled and acute-angled – and ensures built-in safety at the same time. Layher Allround Scaffolding has now become synonymous with modular scaffolding on the market.

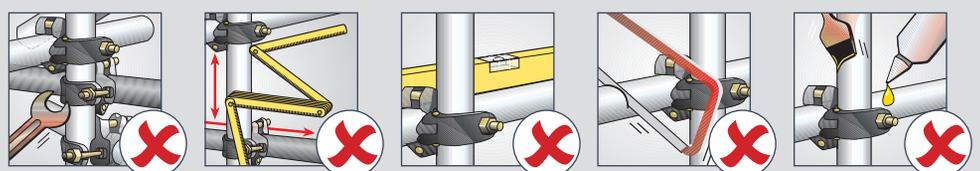
THE BENEFITS TO YOU

- ▶ **Fast:** The lighter components increase the speed of assembly and also transport capacities – that saves real money.
- ▶ **Strong:** Increased loading capacity despite lower weight.
- ▶ **Safer:** Improved occupational safety during assembly thanks to the AutoLock function.
- ▶ **Ergonomic:** Increased height clearance and reduction of physical strain by saving up weight in the system.
- ▶ **Efficient:** Only one standard for supported and suspended scaffolding thanks to integrated spigots. There is no need for time-consuming installation of separate spigots or storage of two different standards.

Allround Scaffolding



Traditional scaffolding:



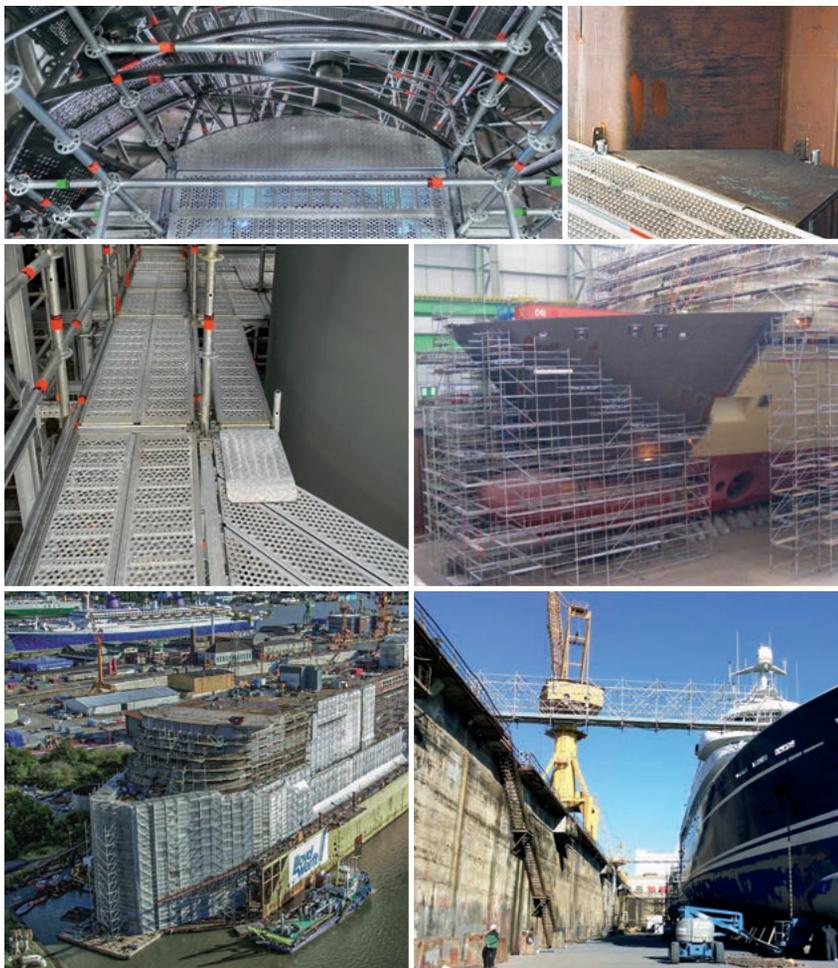
LAYHER SHIPYARDS AND OFFSHORE SOLUTIONS

GEOMETRY ADAPTATION

Simple geometry adaptation thanks to flexible angle selection on the Allround Scaffolding rosette.

Scaffolding decks in specific designs such as round, trapezoidal or triangular for ideal adaptation to ship's curved hulls, on the propeller and rudder, on the superstructure or inside the cargo area.

Extensive selection of bracket solutions for cantilevers or cantilever assembly for larger bridging. With a large variety of lattice girders, the aluminium FlexBeam or the Allround FW System, suitable solutions are also available for even more complex cantilevers or bridging applications.



ACCESS SOLUTIONS

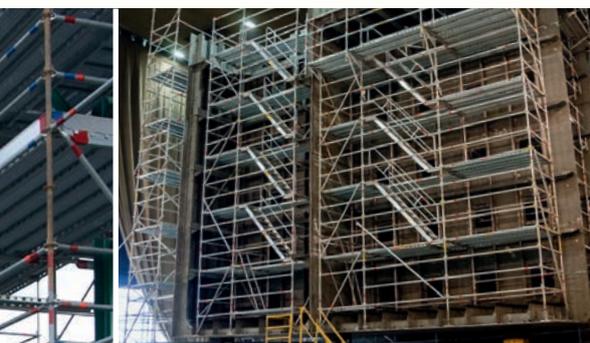
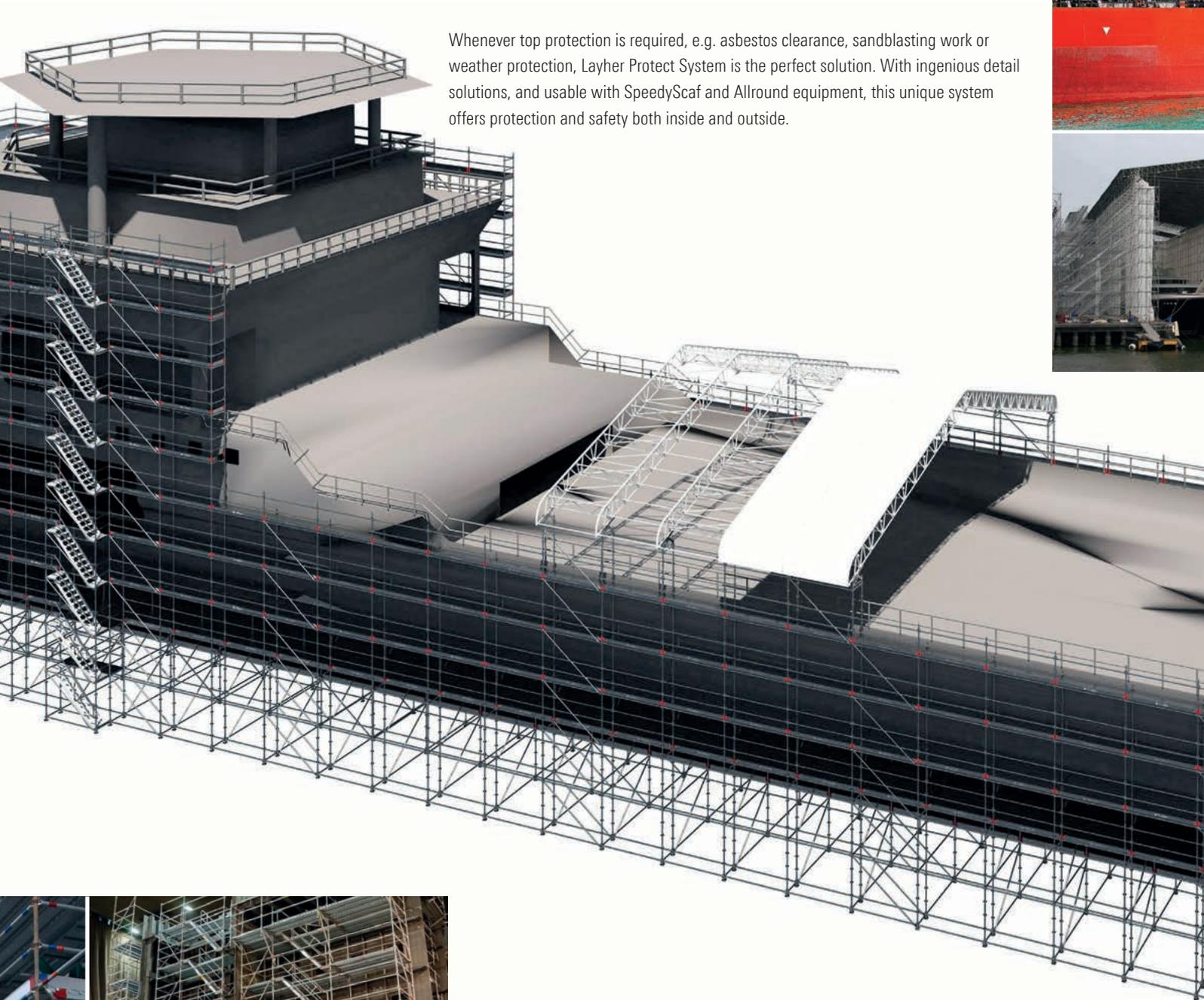
Flexible and ergonomic access options with stairs – mounted in front or integrated. Access decks made of various materials up to load class 4 with low weight are available for confined spaces.

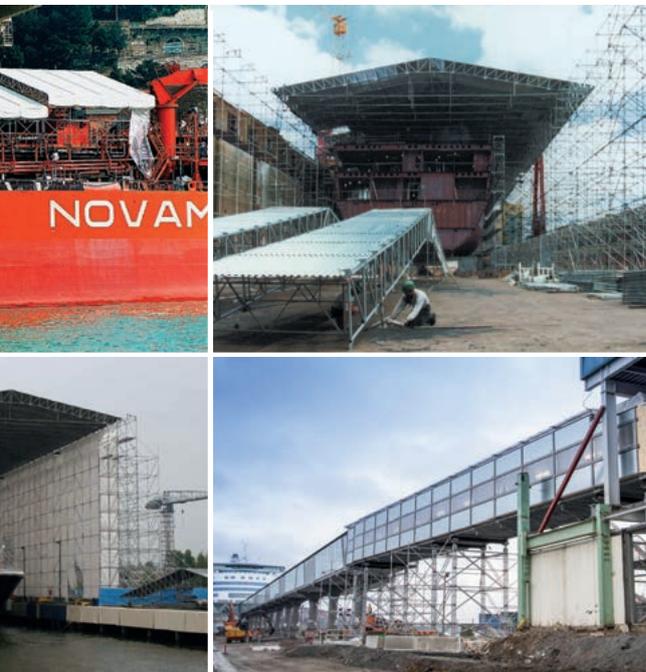


WEATHER PROTECTION SOLUTIONS

The adaptable and modular Layher roof systems provide enormously strong interim weather protection – suitable for any scaffolding system – with spans of more than 30 m and corresponding load bearing capacities. Only few different system components keep the investment costs within limits.

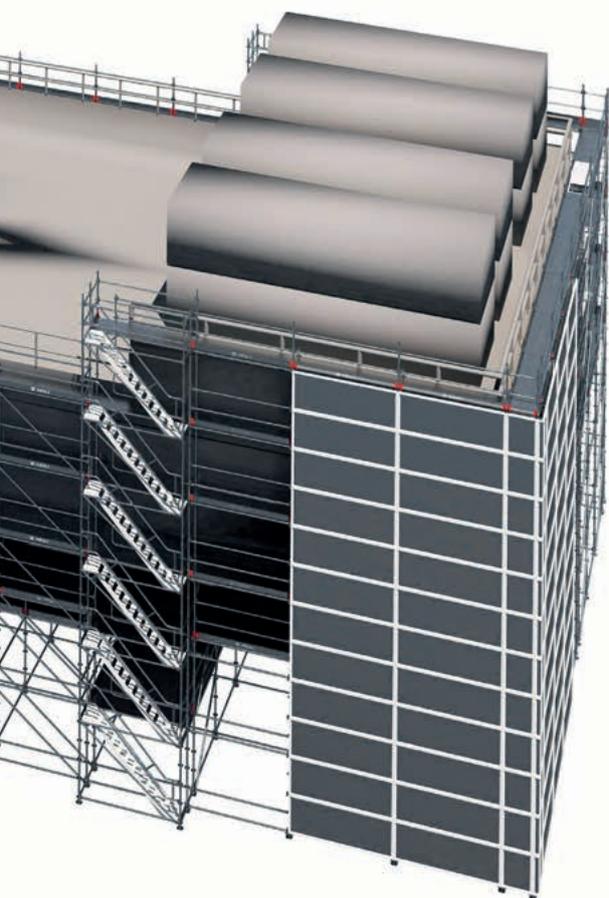
Whenever top protection is required, e.g. asbestos clearance, sandblasting work or weather protection, Layher Protect System is the perfect solution. With ingenious detail solutions, and usable with SpeedyScaf and Allround equipment, this unique system offers protection and safety both inside and outside.





REDUCTION OF THE FIRE LOAD

In order to reduce the fire load, e.g. during welding work, wood can be completely dispensed with in the scaffolding. Various components made of aluminium or steel are available for this purpose.



SUSPENDED SCAFFOLDING SOLUTIONS

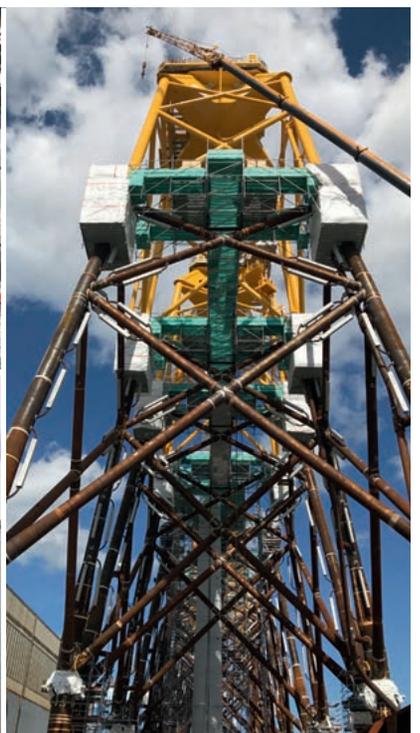
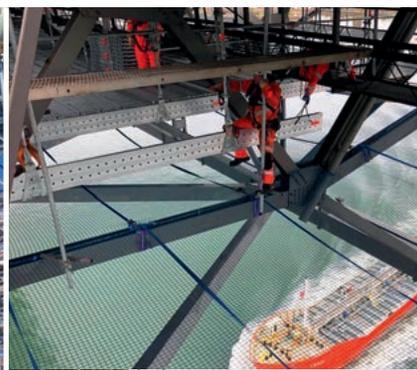
When the work areas are very high up, standard scaffolding structures can often be uneconomical due to high material and labour costs. With Allround Scaffolding, suspended solutions can be achieved without any problem in such cases. To transfer tension-loads, standards can be connected to each other with hinged pins or by bolting them together.

For increasing the load capacity and to reduce the suspension points, different products can be chosen for almost every requirements: the Aluminium FlexBeam or the Allround FW System.

To meet the challenges of offshore and shipyards application, specific attachment components e. g. for suspension on pipelines or on steel beams are available.

LAYHER SHIPYARDS SOLUTIONS

- ▶ Time-saving assembly, modification or dismantling thanks to sophisticated solutions and high fitting accuracy.
- ▶ High level of work safety thanks to AutoLock function and advanced guardrail options.
- ▶ Ergonomic working thanks to lightweight and easy-to-handle individual parts.
- ▶ Economical because it is durable and flexible in use.
- ▶ Only one standard for free-standing and suspended scaffolding.

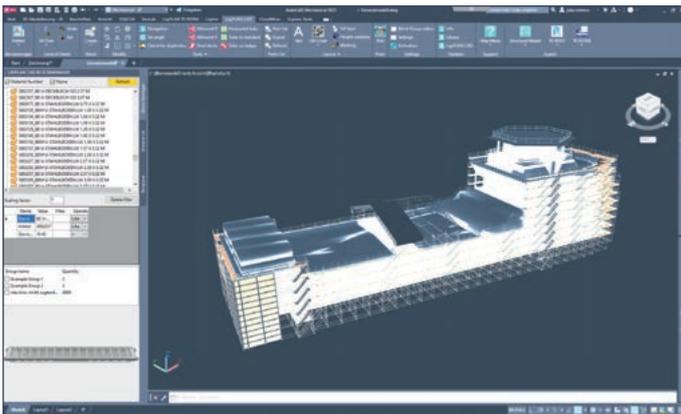


PROVEN IN SHIPYARDS AND OFFSHORE SOLUTIONS



DIGITAL SCAFFOLDING PLANNING SIM | SCAFFOLDING INFORMATION MODELING

Digitalisation optimises project planning effectively, while opening up enormous potential for transparency and cost savings.



The future in scaffolding construction is digital – and it's name is SIM

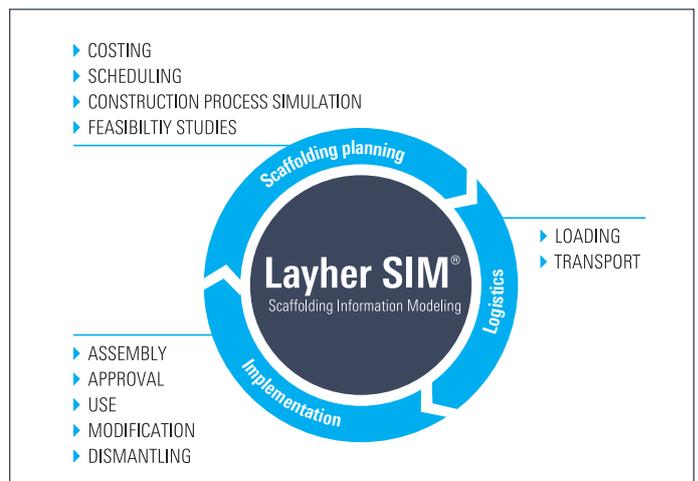
Scaffolding Information Modeling – SIM for short – is a process based on 3D models and designed by Layher to meet the specific requirements of scaffolding construction. SIM not only allows you to plan, assemble and manage temporary scaffolding structures more efficiently, but also affords access to BIM at the same time. With the integrated Layher software solution "LayPLAN SUITE", you have a powerful tool for the SIM process: LayPLAN CLASSIC facilitates a start in digital planning by allowing automated planning of predefined scaffolding applications – and if required even with temporary roof structures. For complex scaffolding structures as part of large-scale engineering scaffolding, there is LayPLAN CAD.

Planning and scheduling certainty at sites

Dependable 3D planning of scaffolding structures without collisions is just one of many benefits. Added to that are the realistic visualisation of scaffolding, allowing work to be coordinated with other trades or construction sequence simulation, transfer of the scaffolding planning to structural analysis programs, and output of material lists and assembly plans. Transparency at every work step results in a reduction in costs and an increase in safety and profitability. When they work with Layher's scaffolding construction customers, both building contractors and end customers in industry benefit, with SIM, from a high degree of planning certainty, cost control and above all completion of projects on schedule

thanks to efficient and undisrupted construction processes. Delays and added costs due to inadequate planning are a thing of the past.

Process content of SIM



THE BENEFITS TO YOU

- ▶ Transparency in all work steps and cost control.
- ▶ Increase in safety and in profitability for every project.
- ▶ Planning and scheduling certainty at every site.
- ▶ Your access to BIM.

The modules of LayPLAN SUITE

 	<p>Further information on SIM can be found in the brochure: System Solutions for Digitalisation and Software</p> <p>Further information about SIM in industry can be found on film at: http://yt-sim-ind-en.layher.com</p>
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More Possibilities. The Scaffolding System.

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Scaffolding Grandstands Ladders

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