

All about Scaffolding

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Dr.-Ing. Helmut Kreller, Managing Director

New Layher hot-dip galvanizing facility up and running

quarters in Eibensbach, production of steel components can thus be centralized and expanded, and this includes a second, highly modern hot-dip galvanizing facility.

The steel scaffolding systems are hot-dip-galvanized in this facility. This is a tried-and-tested and at the same time modern corrosion protection process, in which the products are dipped in molten zinc. This process protects the steel from corrosion by atmospheric exposure and air pollutants, thereby greatly prolonging its service life and durability. For this reason, Layher has already been hot-dip-galvanizing all its steel products since 1965. This process is a multiple-stage immersion process: first the products are subjected to intensive cleaning in various baths to remove oil and grease residues, rust and scale, and also to surface treatment. This increases the wetting power with the zinc. After a drying phase in a special oven, the steel products are finally immersed in the molten zinc and thereby galvanized.

The new facility was constructed with a useful area of approx. 10,000 square metres according to state-of-the-art technology: the galvanizing oven is computer-controlled and operates extremely efficiently by means of selected process engineering. Thanks to cutting-edge crane technology, the material is transported fully automatically through the entire galvanizing process. To ensure environmentally compatible operation, Layher adhered during the construction phase to the stringent stipulations of the German Federal Immission Control Act, which makes the highest demands on protection against air, noise and waste water emissions.

80,000 tons of steel products can now be hot-dip-galvanized per year and protected for a long time against environmental effects before they leave the factory on their way to customers across the globe. And at the same time Layher is safeguarding jobs in the region in the long term.

After a construction period of just 10 months, Layher put into operation a new hot-dip galvanizing facility in March. Thanks to this facility, the system scaffolding specialist not only guarantees the quality of its products and its delivery capability, but also safeguards jobs in the region.

For decades now, the range of products and services offered by Wilhelm Layher GmbH & Co. KG has included high-quality scaffolding systems and a comprehensive service package. Included in the above is the high delivery capability of all items, which are callable "just-in-time" whenever needed, allowing even surprise or major orders to be started and handled on schedule – a crucial competitive edge in the field of scaffolding construction.

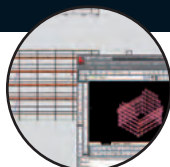
In order to assure this service in the future too, Layher has for years been investing significantly in new production facilities at its headquarters in Eibensbach in Swabia – a clear declaration of its commitment to the region and to Germany as a production location. Within the framework of a three-point expansion plan, aluminium and wood production is being transferred to neighbouring Güglingen. At the head-



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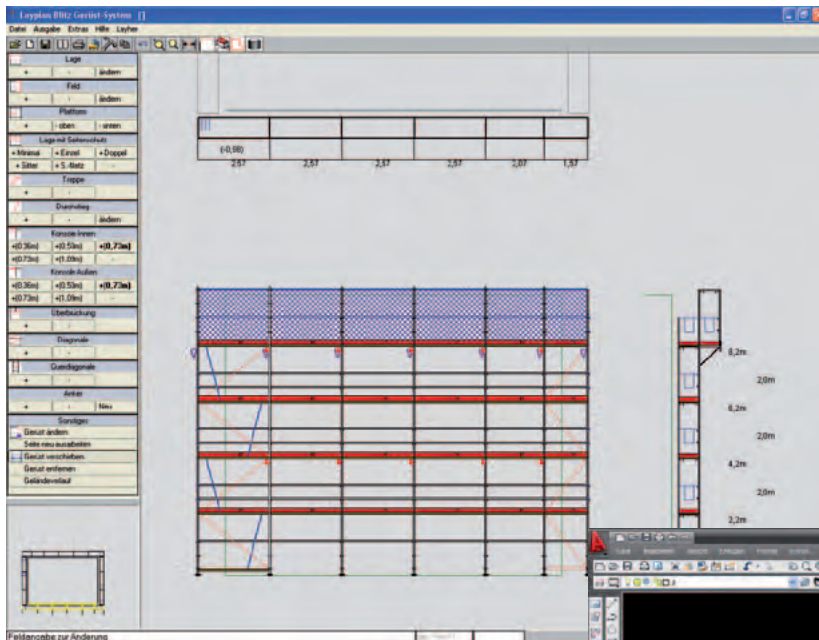
LayPLAN now with AutoCAD® link

Ongoing developments continue in software too: LayPLAN, the program for scaffolding structure planning, has been expanded by a few new features. For example, anchoring points can now be changed manually. In the case of SpeedyScaf, the upper end of the scaffolding can also be planned with eaves brackets, 2.0 m assembly frames, or assembly frames at bracket level. Another interesting feature for circular scaffolding structures is that the length of the intermediate bay can now be selected irrespectively of the length of the main bay. And what's brand-new: LayPLAN will soon be available with AutoCAD link too. With this, LayPLAN will achieve a major time saving during basic planning, thanks to rapid input of the project data. This

data can then simply be exported into the AutoCAD program, which offers further options for detailed planning.

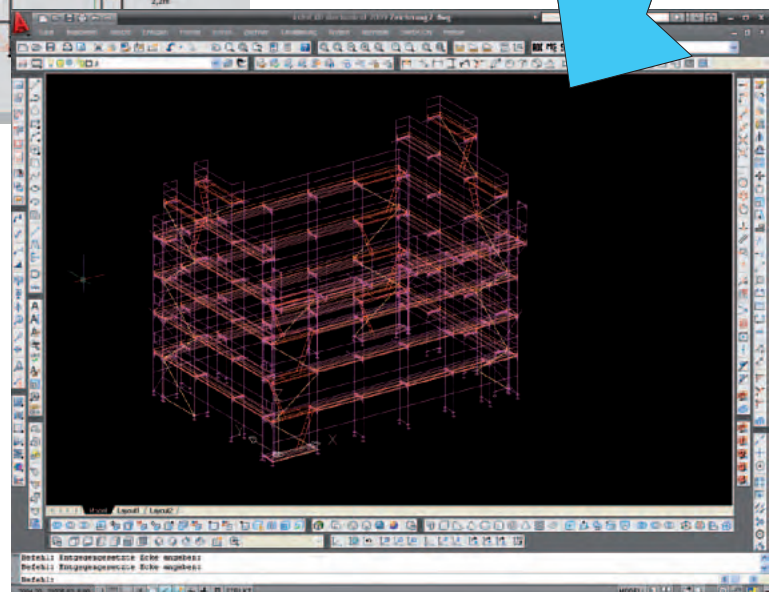
Individualized solutions can be planned quickly and inexpensively with the two LayPLAN modules – for Allround and Speedy Scaf. It doesn't matter whether they're circular and facade scaffolding structures using SpeedyScaf, or birdcage scaffolding and free-standing towers using Allround equipment. Once the dimensions and the required assembly variant have been entered, LayPLAN produces in a matter of seconds a suggestion for the scaffolding, including its anchoring, stiffening and side protection. During the design phase, the total length,

the platform heights and the areas are continually recalculated to be up to date and then displayed. Just pressing a key then creates a material list than can be printed out straight away, together with an assembly sketch for the area intended for scaffolding, the total price and the total weight. The printed plan also provides legal security as required by the German Ordinance on Industrial Safety and Health (BetrSichV) and assists the logistical side, since it ensures that the material will be at the right place. Customers can test this simple-to-use program themselves without any obligation. It can be tested free of charge for 30 days.



LayPLAN

AutoCAD®



More possibilities – with Layher software

Time and material are the absolutely crucial factors in scaffolding construction. To use both as effectively as possible and to free you from routine work, we have developed practically-minded computer programs for scaffolding planning. What that means for you is the maximum degree of commercial and technical planning security, optimum use of your equipment stocks, and completely transparent costs at every stage of a project.

Autodesk AutoCAD® is a registered trademark of Autodesk Inc., USA.

Optimized lift-off and tilt preventers

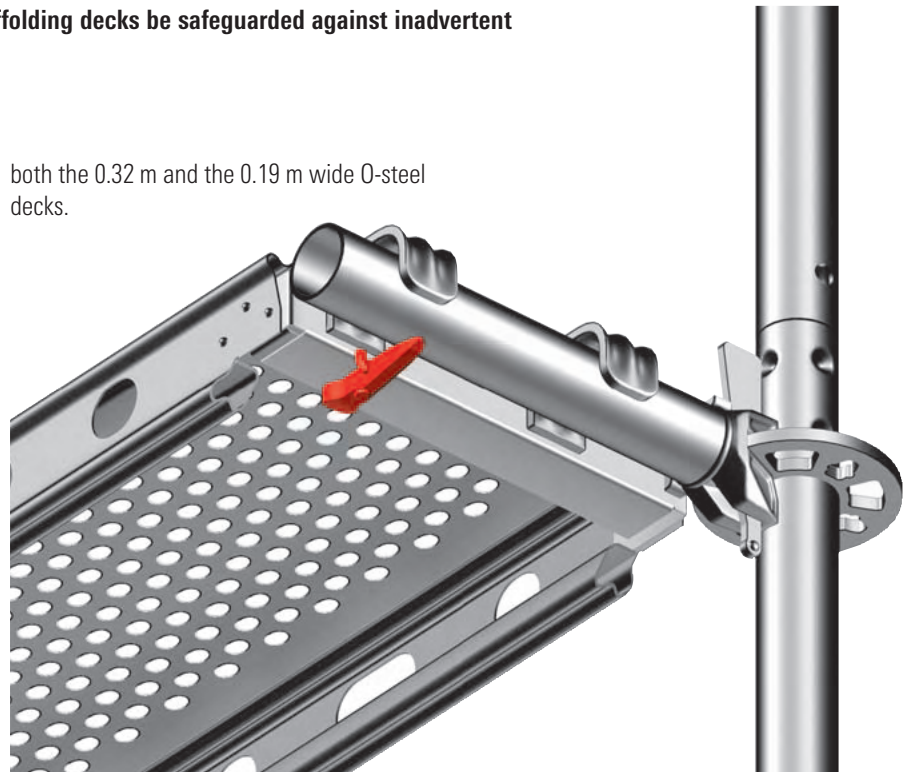
The standard EN 12810-1 requires that scaffolding decks be safeguarded against inadvertent lift-off or tilting.

THE TRICK WITH THE CLICK

Thanks to optimization of the integrated lift-off and tilting preventer on the O-steel deck, safeguarding it against inadvertent lift-off is now achieved even more simply, quickly and safely.

The freely rotating and 3 mm thick sheet metal previously installed has been superseded by a red retaining bar made of steel. This bar is non-wearing, easy to use, and audibly "clicks" into place when snapped in at both end positions – secured and unsecured. The red colour shows whether the deck is secured even at a distance. In addition, the new retaining bar permits the interlocked stacking of O-steel decks, which saves 23 mm of stacking height for each two decks during their storage and transportation. The new retaining bar will be used in future for

both the 0.32 m and the 0.19 m wide O-steel decks.



Layher scaffolding decks

You're on safe ground: with Layher you have a free choice, and hence the right deck for every requirement. These decks double as a work surface and as a dependable bracing for the structure. Everything in the top quality that Layher is well-known for – and thought out to the last detail.

Layher scaffolding decks meet the requirements of DIN EN 12811. With the Layher system, customers can choose from decks made of hot-dip-galvanized steel, aluminium, plastic or wood, or as an aluminium frame with plywood board, in U and O versions depending on the type of use and the load class, but also on operational requirements and priorities.

Your Benefit:

- ▶ Wide range of decks in steel, aluminium, plastic, wood or aluminium/plywood combination.
- ▶ Easy handling thanks to optimized weight and fitting accuracy, plus safe and speedy assembly and dismantling thanks to the Layher claw
- ▶ Long life, maximum safety and excellent stability thanks to the very high standards set for quality and workmanship

NEW ALLROUND U-LIFT-OFF PREVENTER

The improved Allround U-lift-off preventer made of steel now protects scaffolding decks even more flexibly and reliably against lift-off – particularly now that gales and storms are increasing in frequency and intensity. Equipped with a spring mechanism, it always keeps the securing flap in the retaining position. This ensures that the flap doesn't fly open even under high wind loads. The securing hooks are made of high strength steel, further increasing

their loading capacity. What's more, the geometry of the securing hooks has been completely revised: they can no longer collide with the suspension claws of the decks – allowing a more flexible installation of the scaffolding decks. That's a major advantage particularly in surface scaffolding, since it's now no longer necessary when fitting the decks to watch out for the position of these claws.

The hinge with leg spring is also available as a separate retrofitting kit for lift-off preventers up to and including a bay width of 1.57 m. This means that already existing lift-off preventers can be fitted with the new spring mechanism.



More than just product design ...

Providing you with an optimum product range is of course an important focus for us, the Technical Office at Layher. With ongoing developments and additions to the system, we keep this range up to date at all times. And we make sure that already existing material can always be combined with the new products. Inspiration from actual practice also frequently culminates in ingenious new developments, opening up to

the user new markets – and new sources of income. We back this up by providing advice and making our expertise available as a service: regardless of whether you need technical assistance during the quotation phase or a tailor-made solution for special tasks. Our experienced team is at your service, and can also design and manufacture special parts at short notice. Assembly assistance in the event of unusual projects

can be obtained from our experienced and expert assemblers, who would be glad to familiarize you with your newly acquired scaffolding material. As they do so, they will also reveal a wealth of tips and techniques for more effective use. We can also bring you bang up to date in our annually held technical seminars: at Layher, comprehensive knowhow is imparted in intensive training courses – preferably in the winter months. The programme always covers both the theoretical and the practical sides, either in a basic course for new users or in an advanced course for expert scaffolding erectors. At the same time, we have collated for you a wealth of specialist information: technical brochures for Allround and SpeedyScaf provide information on both general and specific aspects of scaffolding construction, and the regularly appearing “Rund ums Gerüst” (all about scaffolding) keeps you up to date at all times with the latest information. For rational working and trouble-free operation.



Here are some of our large Technical Office team ...

Layher says goodbye to long-serving employees

Representatives from Layher recently met for a special occasion: together they attended a ceremony to say goodbye to the long-serving employees Edeltraud

Neumann and Matthias Poslovski, who are embarking on their well-earned retirement. Both were praised for their out-of-the-ordinary commitment, dedication and loyalty.



G. Layher, M. Poslovski, E. Neumann, C. Langer (f.l.t.r.)

Over the past 19 years, Edeltraud Neumann in reception has been the first person people encounter at Layher, either in person or over the telephone. With her open and friendly manner she welcomed visitors, customers, business partners and colleagues too, putting them through to the right people with skill, dedication and responsibility. And she always had a friendly word for everyone. Matthias Poslovski can look back on an impressive career spanning almost half a century: after his

apprenticeship, he was responsible for the assignment of trucks at the despatching department, where he rose to a managing position. In his 46 years at the company, his untiring efforts contributed immensely to Layher's uncommonly fast delivery service.

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