

AGS SYSTEM FROM LAYHER MODULAR ACCESS SYSTEM FOR FACADES



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MODULAR ACCESS SYSTEM AGS FOR FACADES.

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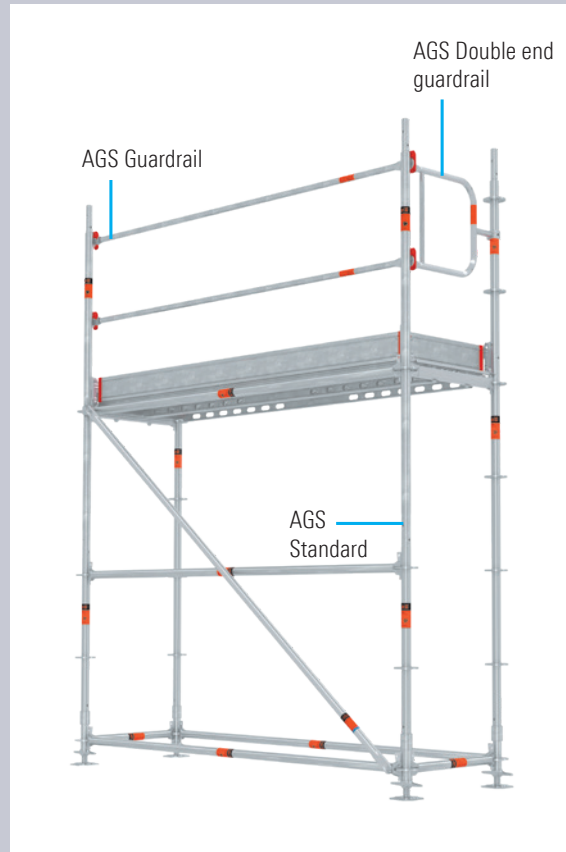
The modular access system AGS from Layher combines the benefits of a facade scaffolding system with the flexibility of modular scaffolding.

The AGS standard meets the same high loading capacity requirements as a normal Allround standard LW. Complete integration into Allround Scaffolding means that all expansion parts from the extensive parts kit can be re-used.

The lightweight AGS guardrails are fastened without using any tools, thanks to the red safety lever, allowing construction of a system-integrated advancing side protection. Adherence to a defined assembly direction is not needed, and the guardrails can be removed at any time as required.

All further components, such as scaffolding decks, ledgers and diagonal braces, are taken from the extensive Allround Scaffolding construction kit.

Further information on film:
yt-ags-en.layher.com



Main components approved by building authority

The following general building authority approvals are available for the modular access system AGS:

- ▶ **AGS Standard: Z-8.22-939**
- ▶ **AGS Guardrail: Z-8.1-919 and Z-8.1-969**

A structural verification is available for assembly heights of up to **52 m in load class 3** with maximum bay lengths of 2.57 m. At the deck level, longitudinal ledgers are only needed on the outside of bracing bays – i.e. where vertical diagonal braces are installed. In individual cases, greater assembly heights can also be verified as part of project-specific verifications. For the modular access system AGS, comprehensive Instructions for Assembly and Use are available.

Digital planning

With the LayPLAN SUITE planning software, you improve planning certainty and cost transparency, meaning the profitability of your projects too. The current version of LayPLAN Classic now also contains a planning module for facade scaffolding using the AGS System.



Integrated system

With a few supplementary components, many different solutions can be offered – for new fields of business and customer groups. Thanks to uniform system dimensions, all our new products are – generally speaking – combinable with existing components of the Layher product portfolio – including earlier product generations. This ensures that investments are protected.

THE COMPONENTS.

ONLY TWO MAIN COMPONENTS

AGS Standard



The AGS standard has the same load-bearing properties as the usual Allround Standard LW 2.00 m. The guardrail can be fitted completely without tools thanks to the red securing bar.

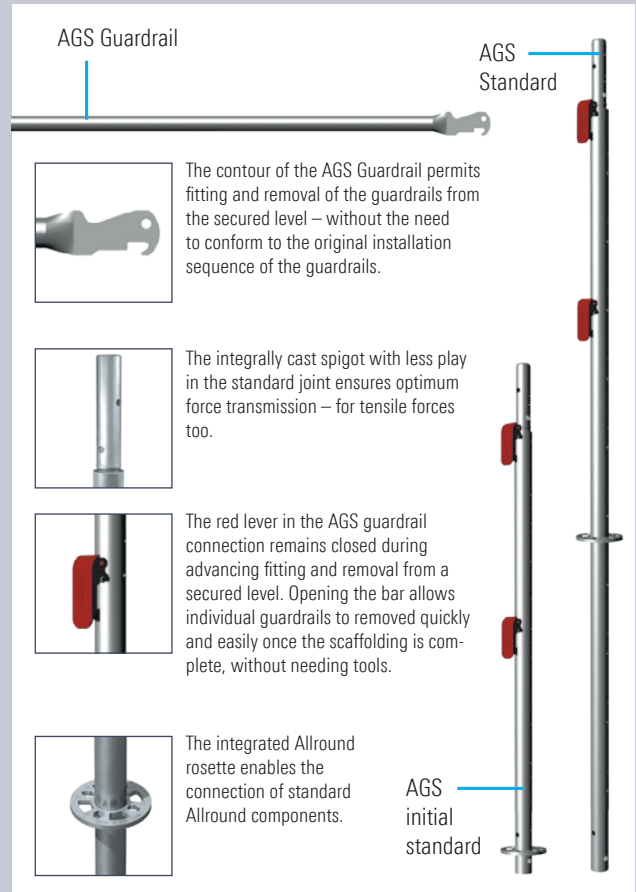
AGS Guardrail

The innovative connection contour of the AGS Guardrail enables the lightweight guardrail to be inserted into the closed guardrail connection of the AGS standard from the level underneath, connected to the next AGS standard and swung upwards together.

Further AGS components

Further components are also available to complement the AGS System as facade scaffolding in the Allround Scaffolding construction kit.

- ▶ AGS double end guardrail for closing the scaffolding at its end. The double end guardrail too can be fitted from a secured level while advancing.
- ▶ AGS initial standard  for even faster construction of the scaffolding. The initial standard replaces a base collar and a 1-metre Allround standard. Alternatively, an Allround initial standard of 1.16 m with 3 Allround rosettes is available for high-rise scaffolding structures. Using this standard, the scaffolding can be braced at the bottom level completely using Allround ledgers.
- ▶ Guardrail adapter  for assembly of outer and inner corners.

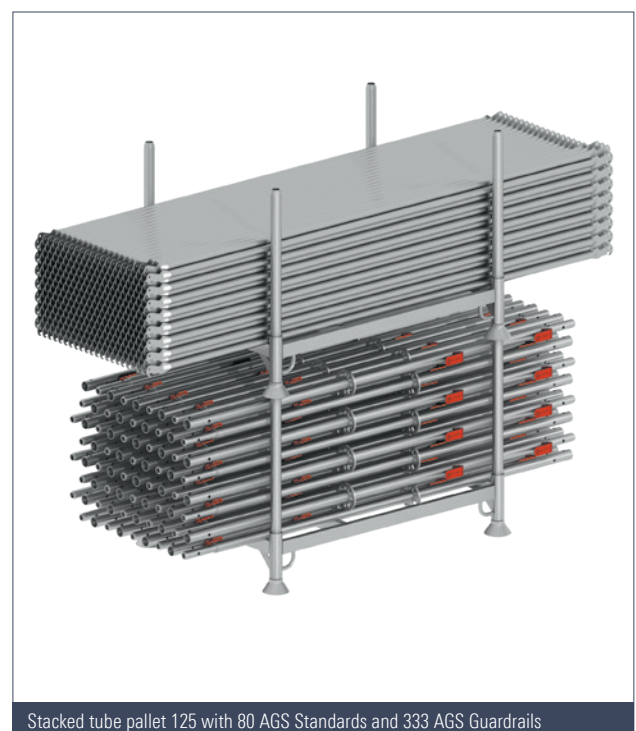


Efficient logistics

- ▶ Fewer and lighter parts for improved use of truck capacities.
- ▶ Good stackability of the sturdy components.
- ▶ Large selection of pallets for an individualised storage and transport concept.
- ▶ Solutions for practical vertical transport.

THE BENEFITS FOR YOU AT A GLANCE:

- ▶ Facade scaffolding system in modular design for more flexibility.
- ▶ Lightweight and compact components with low transport volume.
- ▶ Rapid assembly and dismantling of the guardrail without tools
- ▶ Collective protection while working on facade scaffolding using the Allround system.
- ▶ Advancing fitting of side protection on the inside and outside of the scaffolding is possible – without using additional temporary side protection components.
- ▶ Subsequent expansion of individual guardrails is possible, regardless of the assembly sequence.



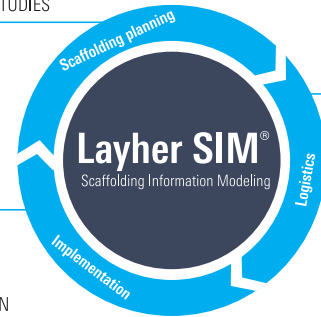
SIMPLE IN PLANNING AND APPLICATION.

EASY PLANNING AND JOB PREPARATION

- ▶ The Layher price lists for dependable costing.
- ▶ Extensive technical documentation plus the digital planning tools of LayPLAN SUITE for easy planning.
- ▶ Layher Scaffolding Information Modeling to support the digitalisation of processes.
- ▶ Assistance during planning by Layher's applications engineers.
- ▶ High delivery readiness.

Allowing you to always start your contracts without delay and complete them on schedule.

- ▶ COSTING
- ▶ SCHEDULING
- ▶ CONSTRUCTION PROCESS SIMULATION
- ▶ FEASIBILITY STUDIES



- ▶ LOADING
- ▶ TRANSPORT

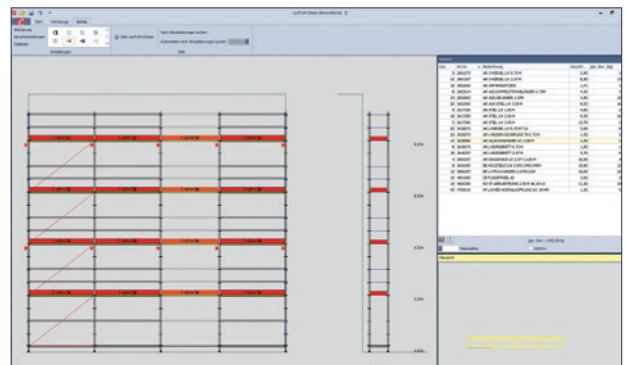
- ▶ ASSEMBLY
- ▶ APPROVAL
- ▶ USE
- ▶ MODIFICATION
- ▶ DISMANTLING

The digitalisation of processes in scaffolding construction – from planning and logistics to implementation – enhances transparency in all working steps and leads to cost savings in the project.

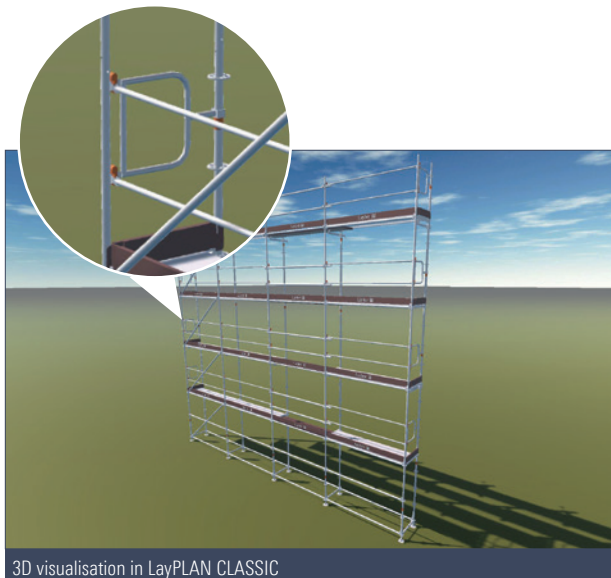
LayPLAN SUITE – your tool for SIM

With the integrated Layher software solution “LayPLAN SUITE”, you have a practical tool for the SIM process:

- ▶ LayPLAN CLASSIC for an easy start in digital planning. Automated planning of predefined scaffolding applications with 3D visualisation for order acquisition.
- ▶ LayPLAN CAD for complex scaffolding structures as part of large-scale engineering scaffolding.
- ▶ LayPLAN MATERIAL MANAGER for automatic creation of material lists.
- ▶ LayPLAN VR VIEWER for realistic 3D visualisation.



With LayPLAN CLASSIC, you can digitally plan predefined scaffolding applications with ease.



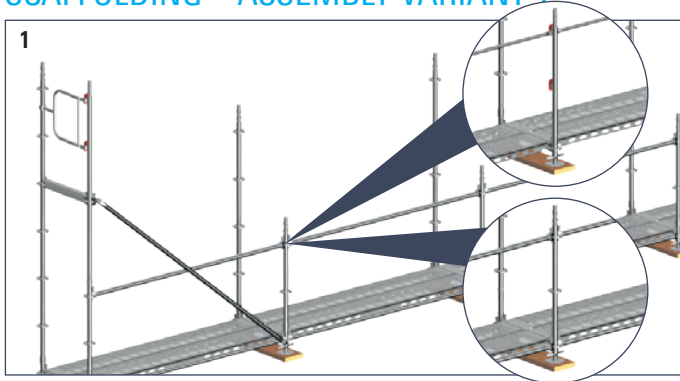
3D visualisation in LayPLAN CLASSIC



More complex scaffolding planning can be done using LayPLAN CAD.

MORE SAFETY DURING ASSEMBLY AND USE.

AGS ONLY ON THE OUTSIDE OF THE SCAFFOLDING – ASSEMBLY VARIANT 1

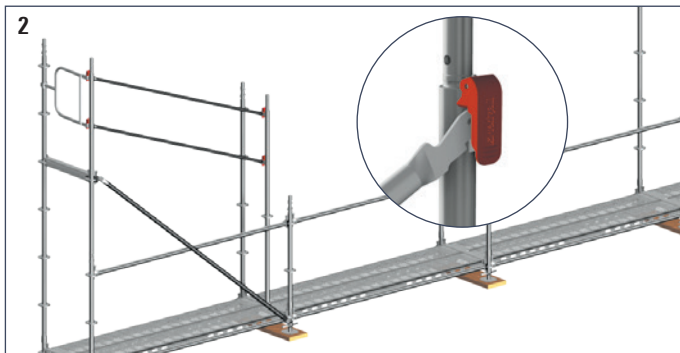


Start at the outside of the scaffolding with 1-metre standards. Fitting the first AGS standard with previously fitted end guardrail. Fitting a U-ledge and an Allround diagonal brace. As an alternative to the base collar and the 1-metre standard, the AGS initial standard LW or the Allround standard LW of 1.16 m with 3 rosettes (see detailed images) can be used.

AGS ON THE OUTSIDE OF THE SCAFFOLDING AND TOWARDS FACADE – ASSEMBLY VARIANT 2



The AGS Standard permits advancing guardrail fitting both on the outside of the scaffolding and on both sides. In this case, start with a 1-metre standard on the inside of the scaffolding towards the facade, in the same way as on its outside. Further fitting is done identically to assembly variant 1.



Insert the guardrails into the already fitted AGS standard. Despite the bar being closed, the guardrail can be assembled from the secured level. The guardrails are then connected to the next AGS standard.

DISMANTLING

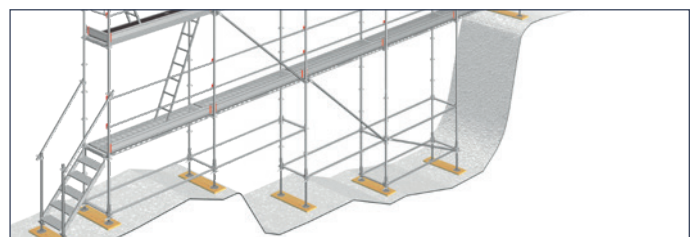
Dismantling is in the reverse order to assembly. A fixed direction of dismantling does not have to be complied with, meaning maximum flexibility at the site.

CORNER SOLUTION



Using the AGS guardrail adapter enables inner and outer corners to be assembled with system-integrated advancing side protection. To permit closed guardrails even when there are shortened bays in the system, adjustable AGS guardrails are available.

ADAPTATION TO TERRAIN



Swing it upwards, fit the AGS Standard, install the U-ledge and insert the deck. The entire facade scaffolding can be safely assembled in the same way. Dismantling is in the reverse order.

Since the AGS System is completely integrated into the Allround construction kit, adaptation to the terrain is quick and easy thanks to the use of standard Allround components.

VERSATILE THANKS TO EXPANSION PARTS.

EXTERNAL PLATFORM STAIRTOWERS



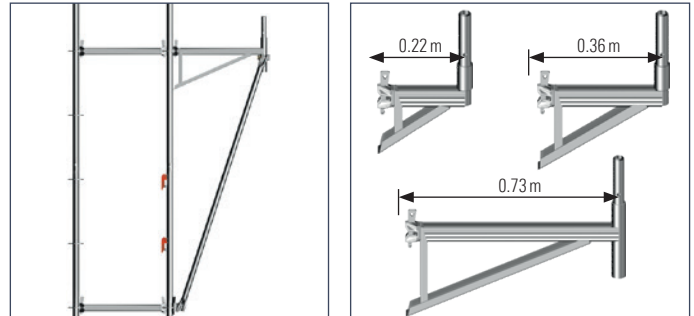
With the AGS System, external platform stairtowers too can be assembled with advancing side protection. Stair accesses are required by TRBS 2121-1 rules when the access height exceeds 5 metres.

FLEXIBLE SCAFFOLDING WIDTHS

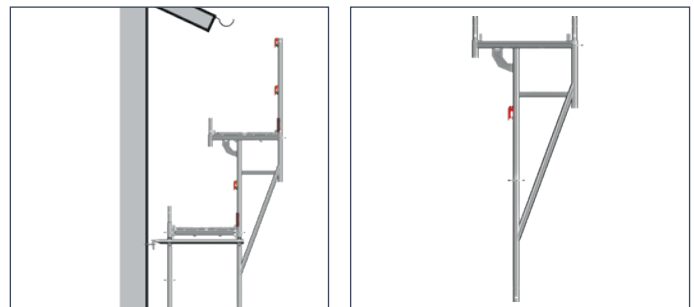


If larger work surfaces are required for reinforcing scaffolding, for example, the scaffolding width can be freely selected up to 3.07 m by using standard U-ledgers or O-ledgers.

FURTHER EXPANSION PARTS



Allround brackets

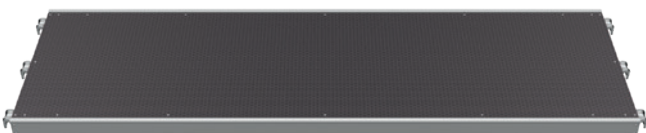


AGS Eaves bracket

Thanks to the extensive Allround Scaffolding construction kit, a wide variety of expansion parts and supplementary components is available. It covers brackets, easily attachable to both the inside and the outside of the scaffolding by wedge connection to the vertical standard; lattice beams; or bridging and strengthening systems integrated into the system, such as the Allround FW System. There is also full combinability with the Layher roof systems which can be assembled on AGS support scaffolding.

FOR A SAFER STANCE: LAYHER SCAFFOLDING DECKS FOR EVERY REQUIREMENT

At Layher you'll find the right deck for every requirement, every type of use and every load class. They provide both a safer work surface and dependable bracing for the scaffolding. Layher scaffolding decks slide effortlessly into the U-sections of the U-ledgers. Three claws of the 0.61 m wide decks ensure optimum safety. The one-piece components are quick and easy to fit, ergonomic to handle, and sturdy and low-wear in use. During assembly and transport alike. Individual stamping is available as a theft deterrent if required.



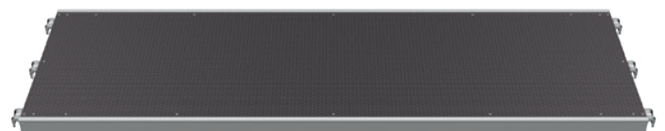
Xtra-N deck – innovative plastic deck with aluminium stile section: easy to clean, with a long service life.



Steel deck LW – high-strength steel deck with markedly reduced component weight – for all load classes.



Stalu deck – lightweight aluminium deck with strong, riveted steel caps.



Robust deck – plywood deck with aluminium stile section.

FUTURE-PROOF.



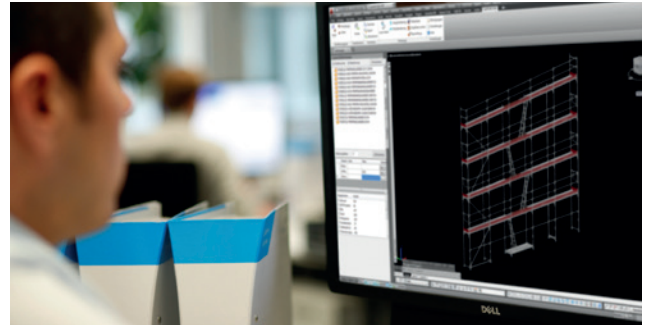
STRONG PARTNERSHIP.



WE MAKE, BUT WE DON'T BUILD

We at Layher are convinced that close and trusting cooperation between manufacturer, scaffolding company and scaffolding user is the right model to ensure successful work on construction sites and projects. With this strategic partnership, jointly defined objectives can be achieved technically, economically and more safely. The power of partnership creates **more possibilities**.

- ▶ Digital planning with the LayPLAN SUITE.
- ▶ Continual product innovations and design improvements.
- ▶ Close-knit network of service centres.
- ▶ Large stocks and rapid material availability.
- ▶ Advancing guardrail systems for compliance with the latest laws and regulations.
- ▶ System-integrated expansion parts.
- ▶ Assistance by Layher's applications engineers – from advice on applications and construction sites to implementation planning and project support.
- ▶ Expert assemblers and technical assistance at the construction site.
- ▶ Technical seminars providing regular further training for your employees.
- ▶ Regular get-togethers with talks on current topics and issues in the market and for exchanging views with colleagues in the industry.
- ▶ Financing options.
- ▶ Dependability.



Layher 

More Possibilities. The Scaffolding System.

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