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Product
overview



LAYHER AGS SYSTEM

MODULAR ACCESS SYSTEM AGS FOR FACADES

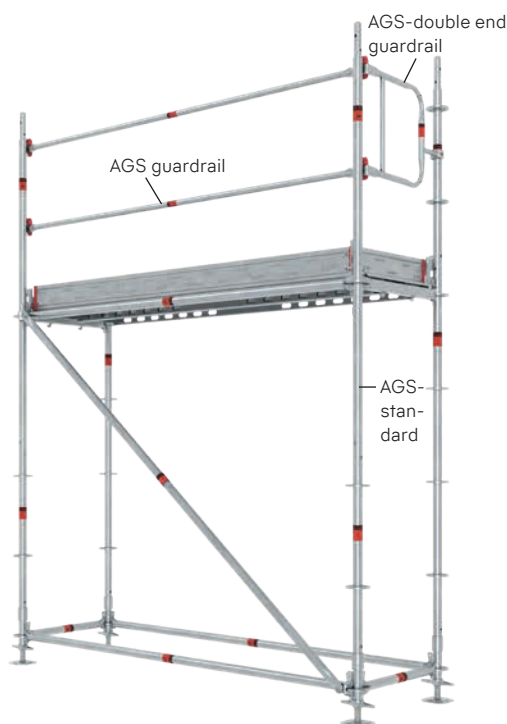
Modular Access System AGS for Facades

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.



[Learn more on YouTube](#)

The AGS System from Layher
yt-ags-en.layher.com

With building authority approval

The use of Layher AGS components as a modular access system is governed by the General Building Authority Approval Z-8.22-949 in terms of building law.

- Furthermore, the following approvals
- Z-8.22-939
- Z-8.1-919 und Z-8.1-969

regulate the manufacture and identification of Layher AGS components.

Standard versions for the modular access system AGS are governed by the Type Testing TP-21-012. This type testing currently contains 20 structurally verified assembly variants. An expansion of the range of assembly variants is in progress.

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.

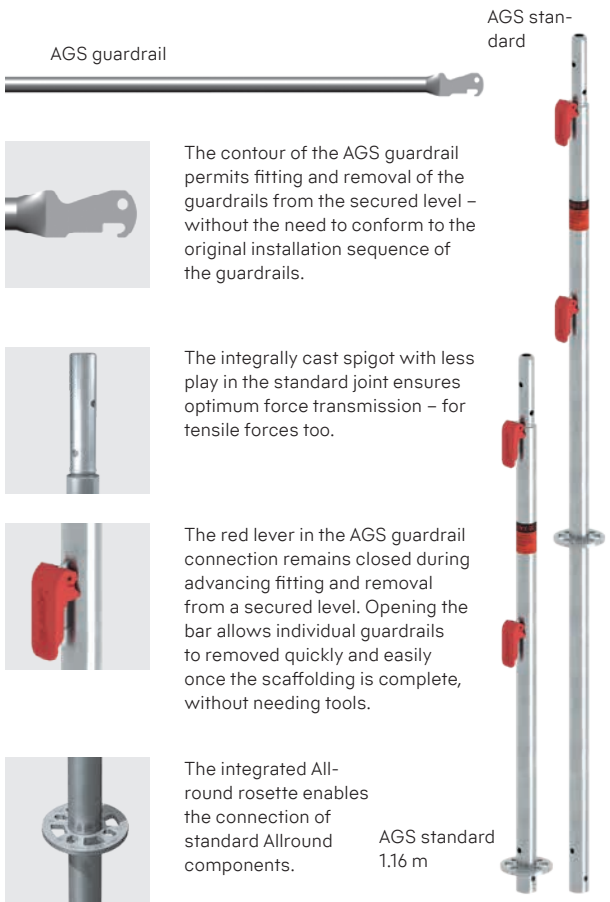
AGS guardrail

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

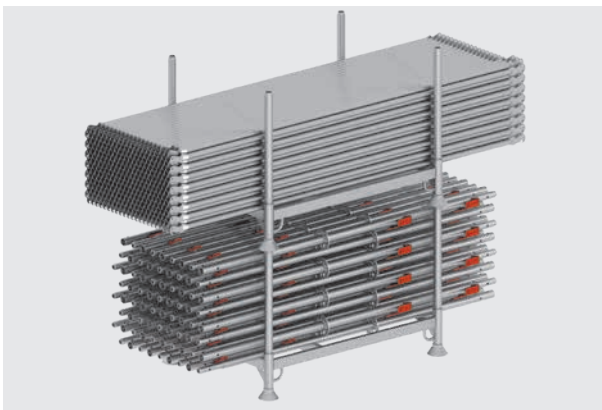
Further components are also available to complement the AGS System as facade scaffolding in the Allround Scaffolding construction kit.

- 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 standard 1.16 m 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.
- U-frame for quick assembly start with high stiffness.



The Benefits for You

- An ingenious and future-proof system: one standard for every eventuality – no retrofitting, for any permissible height, fully system-integrated, with Allround Power Connector
- Rapid and automatically advancing assembly and dismantling, inside and outside, system-integrated and in any direction for handrail and intermediate guardrail
- Easy assembly and dismantling thanks to the unique AGS guardrail connection, with strong and practical safety lever
- Choice between removable AGS guardrail and permanent AGS guardrail Fixx – and in combination too and without retrofitting the standards
- Ready for use – thanks to approval and verified structural analysis
- Wide range of applications and solutions thanks to the Integrated Layher System – ensuring rapid amortisation



Stacked tube pallet 125 with 80 AGS standards and 529 AGS guardrails

Efficient logistics

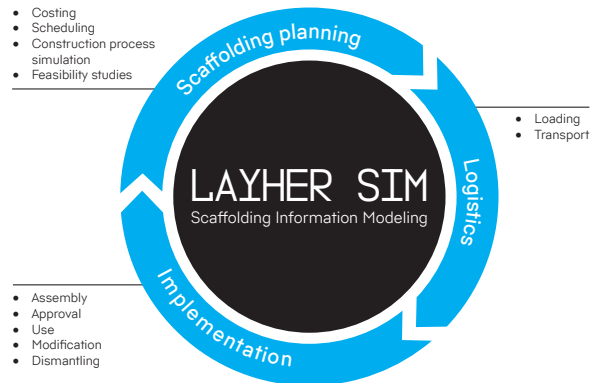
- Fewer and lighter parts for improved use of truck capacities.
- Good stackability of the sturdy components.
- Large selection of pallets for an individualised storage and transport concept.
- Solutions for practical vertical transport.

FASTER.

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.

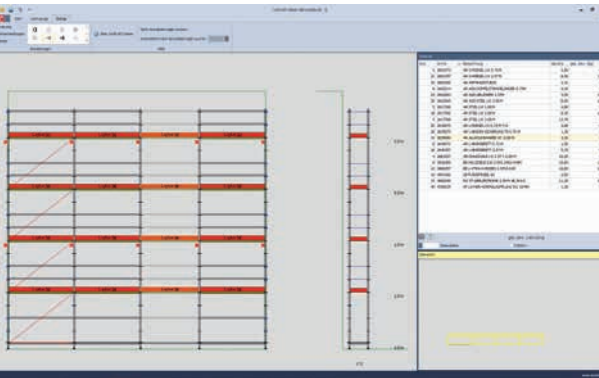


The digitalisation of processes in scaffolding construction – from planning and logistics to implementation – enhances transparency in all working steps and leads to cost savings in the project.

LayPLAN SUITE – your tool for SIM

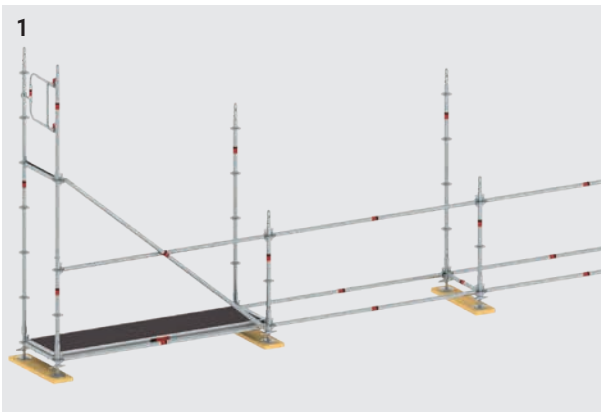
With the integrated Layher software solution “LayPLAN SUITE”, you have a practical tool for the SIM process:

- 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.



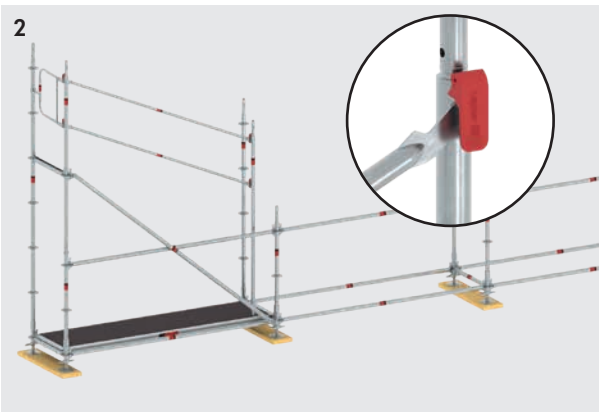
With LayPLAN CLASSIC, you can digitally plan predefined scaffolding applications with ease.

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.

Alternatively for initial assembly, U-frames – optionally with rosettes for full stiffening or AGS safety levers – are available.

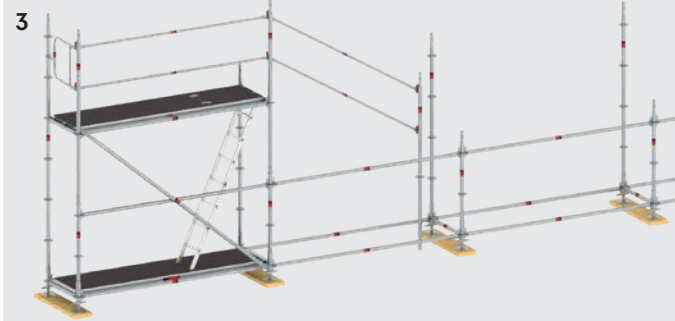


Insert the guardrails into the already fitted AGS standard. Despite the bar being closed, the guardrail can be assembled from the secured level. The guardrails are then connected to the next AGS standard.



Scaffolding start with U-frames.

SAFER.



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

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.

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.

Flexible scaffolding widths



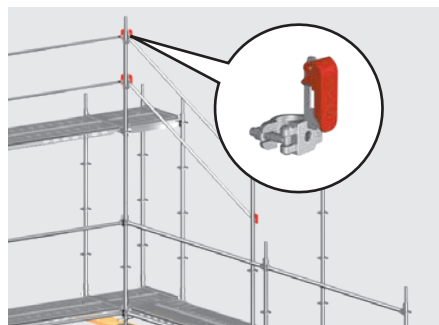
If larger work surfaces are required for reinforcing scaffolding, for example, the scaffolding width can be freely selected up to 3.07 m by using standard U-ledgers or O-ledgers.

Adaptation to terrain



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.

Corner solution



Using the AGS guardrail adapter enables inner and outer corners to be assembled with system-integrated advancing side protection.



01 Corner construction using two standards and one longitudinal ledger.

02 Corner construction using four standards and 0.73 m-long decks in the corner bay.

Correctly designed corners are a crucial factor for more safety when working. Advancing side protection in the corner and end bays is possible without the use of additional temporary components. The corner solutions shown here represent outside corners. Inside corners can be made in the same way. Non system bays at inside corners are accommodated by using the adjustable guardrails.

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.

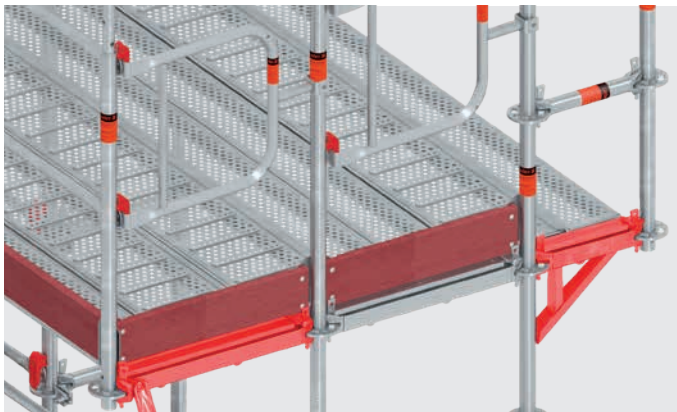
VERSATILE.

Console Brackets

System brackets are available for the quick widening of scaffolding fields as well as for the conversion of projecting building parts and eaves. With the deck covering shown, bracket surfaces can be continuously covered. The transition between the main bay and the bracket is made by covering the rosette with a 0.32 m wide steel deck.



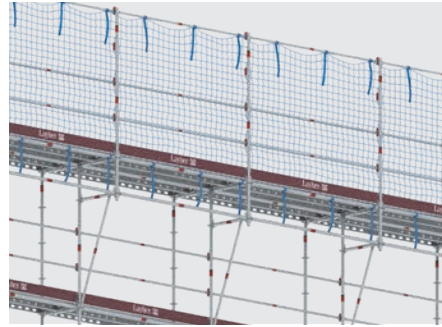
Main bay 0.73 m | Inner bracket 0.36 m



Outer bracket 0.73 m | Main bay 0.73 m | Inner bracket 0.36 m

Edge Protection scaffolding

For the erection of edge protection scaffolding with an edge protection width of ≥ 90 cm, it may be necessary to widen the edge protection using a 0.73 m wide outer bracket. This can be easily realised with the Allround Scaffolding Construction Kit and with the AGS edge protection post.



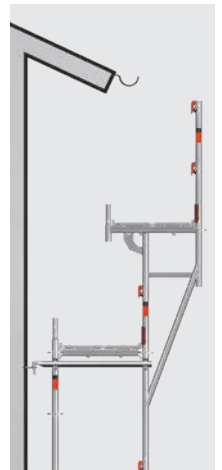
Edge protection scaffolding with 0.73 m widening



AGS edge protection post

Eaves Bracket

Instead of assembling several individual parts, a single component reduces the assembly effort – the new AGS eaves bracket. It is fitted into place and secured with locking pins and ledgers. Once the three-piece side protection is installed, unhindered work on the facade and eaves is possible. The AGS eaves bracket meets the workplace requirements for painters, plasterers and roofers. The eaves bracket replaces several components: standard, diagonal brace, bracket and guardrail support. That ensures rapid assembly.



◆ = The approval procedure has not yet been concluded

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.



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



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



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



Robust deck – plywood deck with aluminium stile section.

IT PAYS OFF!



Facade scaffolding with roof edge protection



Scaffolding at a church bell tower in different widths (0.73 and 1.09 m)



Facade scaffolding with 1.09 m bay width and with external platform stair



New building with an oval geometry and integrated platform stair



Scaffolding at a church bell tower with flexible geometry adaption and integrated platform stair



Facade scaffolding with integrated stairtower and access protection enclosing

Customer proximity is a key success factor for Layher – also in a geographical sense. That is why we are present with ideas and solutions wherever our customers need us.

