TEMPORARY ACCESSES

From a simple internal access in scaffolding, to stairway towers in public areas and places of assembly, plus a vast variety of special solutions.

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TEMPORARY ACCESES
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All dimensions and weights are guideline values. Subject to technical modification.

Steel parts are galvanized according to EN ISO 4042 and EN 12811-2.

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INTERNAL ACCESS WITH STOREY LADDERS
IN HATCH-TYPE DECKS
THE LOW-COST VARIANT FOR UPWARD ACCESS IN SCAFFOLDING

Hatch-type decks – with the same function as scaffolding decks – comprise work decks, a stiffening element and access inside the scaffolding structure, allowing material to be transported to a limited extent. Depending on the requirements and conditions of use, you can select Layher hatch-type decks in steel or aluminium versions or in an aluminium-plywood combination. The ladders are available either for suspension, or already integrated into the deck, the integrated ladder favouring faster construction and being theft proof. For work on the access deck, the ladder is removed if loose or simply folded up if integrated. A hatch closes off the access opening. Max. construction height: 80 m after type testing.

ACCESS DECKS WITH INTEGRATED LADDER
3838.257 U-robust access deck, 2.57 m long
3838.307 U-robust access deck, 3.07 m long
3852.257 U-aluminium access deck, 2.57 m
3852.307 U-aluminium access deck, 3.07 m
3859.257 U-robust access deck, hatch offset, 2.57 m
3859.307 U-robust access deck, hatch offset, 3.07 m

ACCESS DECKS WITHOUT LADDER
3851.157 U-aluminium access deck, 1.57 m
3851.207 U-aluminium access deck, 2.07 m
3851.257 U-aluminium access deck, 2.57 m
3851.307 U-aluminium access deck, 3.07 m
3858.157 U-robust access deck, hatch offset, 1.57 m
3858.207 U-robust access deck, hatch offset, 2.07 m
3858.257 U-robust access deck, hatch offset, 2.57 m
3858.307 U-robust access deck, hatch offset, 3.07 m

MODULAR STAIRWAY

With the Layher modular stairway, access possibilities that always fit and that match the system can be constructed. Any intermediate dimension can be achieved without ad-hoc solutions simply by fitting together the individual stairway parts. The stairway rises 20 cm from step to step; at the top the initial section is flush with the floor of the stairway tower, while at the bottom the end section with scaffolding spindles is used for precise levelling.

Height differences of 0.60 to 1.60 m can be bridged; permissible load-bearing capacity of stairway: 3.0 kN/m², individual weights of stairway parts less than 11 kg.

Design: steel, hot-dip galvanized. Connection of elements with bolt dia. 12 x 55 mm and safety clip 2.80 mm (2 per joint). They are already included in the scope of delivery.

A wide variety of applications thanks to modular design. Little space needed for transport and assembly; long service life.

2637.060 U-stair head section, 0.60 m wide
2637.095 U-stair head section, 0.95 m wide
2638.060 Stair middle section, 0.60 m wide
2638.095 Stair middle section, 0.95 m wide
2639.060 Stair foot section, 0.60 m wide
2639.095 Stair foot section, 0.95 m wide
PLATFORM STAIRS IN SPEEDYSCAF

More safety, convenience and speed when ascending the tower is offered by the Layher platform stair. Material transport is facilitated by the additional use of the work decks as all-round walkways.

Can be used both in Layher’s SpeedyScaf and in Layher’s Allround Scaffolding. The external platform stair tower is covered by the SpeedyScaf approvals as scaffolding access in its regular version (up to 24 m); this means that with the required load capacity of 1.0 kN/m² no further verification is needed. Maximum construction height: 40 m depending on structural analysis. Permissible load capacity of platform stairway: 2.5 kN/m².

PLATFORM STAIRS IN ALLROUND SCAFFOLDING

VERSION IN ALLROUND SCAFFOLDING

Maximum construction height: 40 m depending on structural analysis. Permissible load capacity of platform stairway: 2.5 kN/m².
STAIRWAY TOWER 500
16-STANDARD

The stairway tower 500 is intended for temporary stairway structures with higher live loads. It is preferably used as a construction stairway tower, e.g. for access to the site or as a road crossing not open to the public during construction work, and furthermore at buildings as an additional escape stairway tower. Under certain circumstances, the stairway tower 500 can also be used for public access during construction work or as a mandatory escape stairway tower.

Multi-part stairways, comprising separate stairway stringers 500 and 32 cm wide scaffolding decks as steps. Steel decks are preferably used. The widths for stairway and stairwell are variable. In the standard version, the stairway tower 500 is provided with a child-safety guardrail.

U-stairway stringer 500, 9-step, L = 2.57 m, H = 2.00 m:
Permissible load 5.0 kN/m² with a stair flight width of 2.07 m.
Stairway dimensions: riser s = 20.00 cm; tread a = 27.50 cm; undercut u = 4.50 cm.

A height adjustment outside the 2.00 m standard height dimension is achieved with 5-step stairway stringers.

9 decks per standard stairway.
STAIRWAY TOWER 750
16-STANDARD

The stairway tower 750 with child-safety guardrail is intended, in view of its riser dimensions, for both temporary and permanent stairway structures in public areas. Typical applications are as road-crossings during building work, as stairways inside buildings for the duration of the construction work, as a mandatory escape stairway tower or as a construction stairway tower. For the events field, the stairway tower 750 has a high load-bearing capacity, allowing it to be used for accessing stands and stages.

U-stairway stringer 750, 8-step, L = 2.57 m, H = 1.50 m:
Permissible load 7.5 kN/m² with a stair flight width of 2.07 m.
Stairway dimensions: riser s = 16.60 cm; tread a = 31.00 cm; undercut u = 1.00 cm.

A height adjustment outside the 1.50 m standard height dimension is achieved with 5- or 2-step stairway stringers.

8 decks per standard stairway.

Note:
In very heavily frequented stairways, the steps are subjected to extreme loads in a short time. Scaffolding decks are not designed for these frequent load changes. Steel decks used for these applications should be checked for fatigue damage at regular intervals (the guideline value is after around 750,000 load cycles) and replaced if necessary.
PLATFORM STAIRWAY TOWER

With the platform stairway tower, it is simple to construct a 4-standard stairway tower, either integrated into the scaffolding or as a free-standing access structure anchored on the building. Both parallel and opposite stairways are possible here.

There is no hindrance to work on scaffolding with this version.

Permissible load-bearing capacity of the platform stairway: 2.5 kN/m².

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1753.257</td>
<td>Platform stairway, 2.57 m</td>
</tr>
<tr>
<td>1753.307</td>
<td>Platform stairway, 3.07 m</td>
</tr>
<tr>
<td>1755.257</td>
<td>Comfort stairway, 2.57 m</td>
</tr>
<tr>
<td>1755.307</td>
<td>Comfort stairway, 3.07 m</td>
</tr>
<tr>
<td>2601.140</td>
<td>Allround O-ledger LW 1.40 m, as guardrail</td>
</tr>
<tr>
<td>2613.140</td>
<td>Allround U-ledger 1.40 m, as deck ledger</td>
</tr>
<tr>
<td>2638.400</td>
<td>Stair guardrail post 1.30 m</td>
</tr>
<tr>
<td>2638.401</td>
<td>Allround O-ledger 1.90 m; wedgehead and U-fork</td>
</tr>
</tbody>
</table>

For other components, see the platform stairway in SpeedyScaf or Allround Scaffolding, e.g.: Starter U-transom, Stair guardrail, Internal guardrail.

COMPACT STAIRTOWER

In its standard version, the Layher Allround compact stairtower conforms to German regulations on stairways for building work and fits into many stairway recesses in buildings to house one or more families. It puts an end to improvised and dangerous stairway or ladder solutions inside an unfinished building and at the same time ensures efficient working: thanks to short assembly times with prefabricated and lightweight individual parts, and to its variability with regard to outer dimensions, directions and levels for entries and exits. Bracket attachments furthermore allow it to be used as work scaffolding for work on the stairway well walls. This means that the compact stairtower is not only assembled quickly and flexibly, but also saves time and money for construction companies thanks to safe and convenient use. Using the modular Allround kit means that only a few additional components are needed. When the adapter plate is used, the screed can be laid without any problem even with the compact stairtower already in place.

Ground plan without console brackets: 1.57 x 1.40 m
Exit spacing: 2.50 or 2.75 or 3.00 m
Permissible load capacity: 2.5 kN/m²

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2636.125</td>
<td>U-stair, 1.25 x 0.60 m</td>
</tr>
<tr>
<td>2608.140</td>
<td>U-ledger with bearer, 1.40 m</td>
</tr>
<tr>
<td>2636.078</td>
<td>Gap cover, 0.79 m</td>
</tr>
<tr>
<td>2636.124</td>
<td>Adaptor plate</td>
</tr>
<tr>
<td>2636.125</td>
<td>U-stair, 1.25 x 0.60 m</td>
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<td>Adaptor plate</td>
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</tbody>
</table>
ALLROUND STAIRWAY TOWER 200
12-STANDARD

With the Allround stairway tower 200, 12-standard, each stairway is assembled from 2 separate U-stairway stringers 200, with standard decks used as steps. On the one hand this makes the weight/volume of the individual parts lower, the proportions of standard material higher, and the additional costs lower, and also permits even more variants in the stairway width.

U-stairway stringer 200, 10-step, L = 2.57 m, H = 2.00 m:
Permissible load 2.0 kN/m² with a stair flight width of 1.29 m.
Stairway dimensions: riser s = 20.00 cm; tread a = 24.10 cm; undercut u = 7.90 cm.

Maximum construction height: 78 m depending on structural analysis. 10 decks per stairway.

MODULAR SCAFFOLDING STAIRWAY TOWER

The modular scaffolding stairway tower is the perfect solution for excavations, shells, site accesses to formworks and much more. Thanks to the 2.21-m-long Allround standard, the stairway tower has no joint-crossing components and can be preassembled on the ground floor by floor and placed by crane. Exits are possible both on the end and on the longitudinal side. You will also benefit from a 20 cm increased headroom on unidirectional stairs compared to conventional construction.

Ground plan: 1.40 x 2.57 m (using a 0.64 m wide comfort stairway) 1.57 x 2.57 m (using a 0.94 m wide comfort stairway)

Permissible load capacity: 2.0 kN/m² (using a 0.94 m wide comfort stairway) 2.5 kN/m² (using a 0.64 m wide comfort stairway)
Proximity to the customer is a central factor behind Layher’s success — geographically speaking too. Wherever our customers need us, we will be there — with our advice, assistance and solutions.

Layher is your dependable partner with more than 70 years of experience. “Made by Layher” always means “Made in Germany” too — and that goes for the entire product range. Superb quality — and all from one source.