

TEMPORARY ACCESSSES



Edition 12.2015
Ref. No. 8121.201

Quality management
certified according
to ISO 9001:2008
by German TÜV-CERT

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



TEMPORARY ACCESSES





CONTENTS

| | |
|---|---|
| ▶ INTERNAL ACCESS WITH STOREY LADDERS IN HATCH-TYPE DECKS | 4 |
| ▶ MODULAR STAIRWAY | 4 |
| ▶ PLATFORM STAIRS IN SPEEDYSCAF | 5 |
| ▶ PLATFORM STAIRS IN ALLROUND SCAFFOLDING | 5 |
| ▶ STAIRWAY TOWER 500 | 6 |
| ▶ STAIRWAY TOWER 750 | 7 |
| ▶ PLATFORM STAIRWAY TOWER | 8 |
| ▶ COMPACT STAIRTOWER | 8 |
| ▶ ALLROUND STAIRWAY TOWER 200 | 9 |
| ▶ MODULAR SCAFFOLDING STAIRWAY TOWER | 9 |

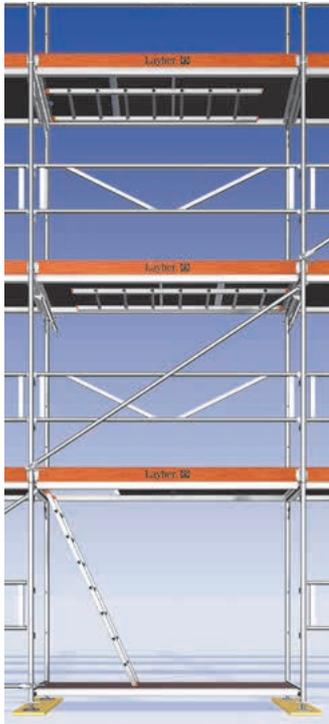
All dimensions and weights are guideline values. Subject to technical modification.

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

Please request the specific instructions for assembly and use when ordering. Protected by copyright. Not to be reproduced, either in whole or in part. Misprints and errors excepted.

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 | 3813.207 | U-access deck, steel, 2.07 m long |
| 3838.307 | U-robust access deck, 3.07 m long | 3813.257 | U-access deck, steel, 2.57 m long |
| 3852.257 | U-aluminium access deck, 2.57 m | 3858.157 | U-robust access deck, hatch offset, 1.57 m |
| 3852.307 | U-aluminium access deck, 3.07 m | 3858.207 | U-robust access deck, hatch offset, 2.07 m |
| 3859.257 | U-robust access deck, hatch offset, 2.57 m | 3858.257 | U-robust access deck, hatch offset, 2.57 m |
| 3859.307 | U-robust access deck, hatch offset, 3.07 m | 3858.307 | U-robust access deck, hatch offset, 3.07 m |
| ACCESS DECKS WITHOUT LADDER | | 4005.007 | Access ladder for SpeedyScaf |
| 3851.157 | U-aluminium access deck, 1.57 m | 4008.007 | Access ladder, 7 rungs T15 for SpeedyScaf and Allround Scaffolding System |
| 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 | | |

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 |



STAIRWAY TOWER 500

16-STANDARD

| | | | | | |
|----------|---|----------------|--|----------|--|
| 2638.009 | U-stairway stringer, 9-step (2.00 m height) | 2616.073 – 257 | Guardrail for stairs 500, 9-step; suitable for Ref. No. 2638.009 | 2616.100 | Guardrail for stairs 500, 9-step; suitable for Ref. No. 2638.009 |
| 2638.004 | U-stairway stringer, 5-step (1.00 m height) | 2616.104 | Guardrail for stairs 500, 5-step; suitable for Ref. No. 2638.004 | | |
| | | 2616.073 | Guardrail T12 with child protection, 0.73 m | 2609.073 | U-ledge, 0.73 m |
| | | 2616.109 | Guardrail T12 with child protection, 1.09 m | 2609.109 | U-ledge, 1.09 m |
| | | 2616.140 | Guardrail T12 with child protection, 1.40 m | 2609.140 | U-ledge, 1.40 m |
| | | 2616.157 | Guardrail T12 with child protection, 1.57 m | 2609.157 | U-ledge, 1.57 m |
| | | 2616.207 | Guardrail T12 with child protection, 2.07 m | 2609.207 | U-ledge, 2.07 m |
| | | 2616.257 | Guardrail T12 with child protection, 2.57 m | 2609.257 | U-ledge, 2.57 m |



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.

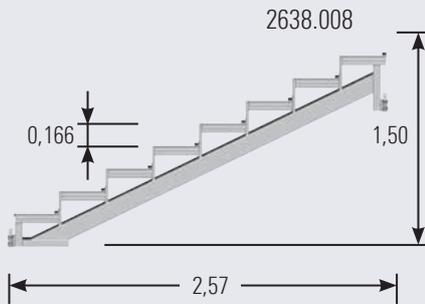
Stairway dimensions: riser s = 20.00 cm; tread a = 27.50 cm; undercut u = 4.50 cm.

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



- 2638.008 U-stairway stringer 750, 8-step (1.50 m height)
- 2638.005 U-stairway stringer 750, 5-step (1.00 m height)
- 2638.002 U-stairway stringer 750, 2-step (0.50 m height)

2616.073 – 257



2616.101



- | | | |
|----------|--|---------------------------|
| 2616.101 | Guardrail for stairs 750, 8-step; suitable for Ref. No. 2638.008 | |
| 2616.105 | Guardrail for stairs 750, 5-step; suitable for Ref. No. 2638.005 | |
| 2616.110 | Guardrail for stairs 750, 2-step; suitable for Ref. No. 2638.002 | |
| 2616.073 | Guardrail T12 with child protection, 0.73 m | 2609.073 U-ledger, 0.73 m |
| 2616.109 | Guardrail T12 with child protection, 1.09 m | 2609.109 U-ledger, 1.09 m |
| 2616.140 | Guardrail T12 with child protection, 1.40 m | 2609.140 U-ledger, 1.40 m |
| 2616.157 | Guardrail T12 with child protection, 1.57 m | 2609.157 U-ledger, 1.57 m |
| 2616.207 | Guardrail T12 with child protection, 2.07 m | 2609.207 U-ledger, 2.07 m |
| 2616.257 | Guardrail T12 with child protection, 2.57 m | 2609.257 U-ledger, 2.57 m |



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.

- 1753.257 Platform stairway, 2.57 m
- 1753.307 Platform stairway, 3.07 m
- 1755.257 Comfort stairway, 2.57 m
- 1755.307 Comfort stairway, 3.07 m
- 2601.140 Allround O-ledger LW 1.40 m, as guardrail
- 2613.140 Allround U-ledger 1.40 m, as deck ledger
- 2638.400 Stair guardrail post 1.30 m
- 2638.401 Allround O-ledger 1.90 m; wedgehead and U-fork

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.

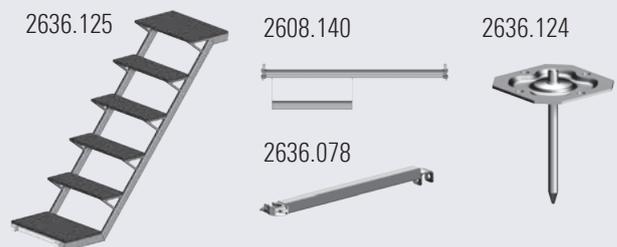
It puts an end to improvised and dangerous stairway or ladder solutions inside an unfinished building and at the same time ensures efficient working: thanks to short assembly times with prefabricated and lightweight individual parts, and to its variability with regard to outer dimensions, directions 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

- 2636.125 U-stair, 1.25 x 0.60 m
- 2608.140 U-ledger with bearer, 1.40 m
- 2636.078 Gap cover, 0.79 m
- 2636.124 Adaptor plate



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.

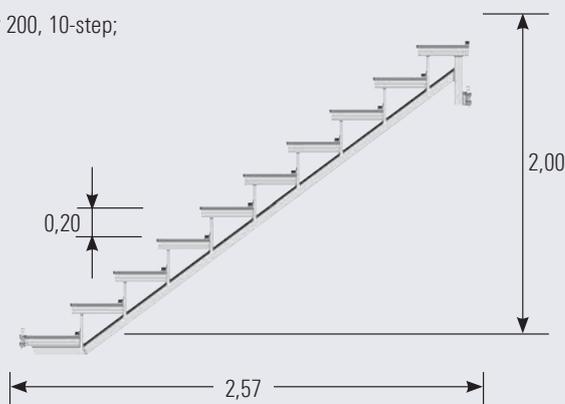
U-stairway stringer 200, 10-step, L = 2.57 m, H = 2.00 m:

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.

2638.010 Allround U-stairway stringer 200, 10-step;
(2.00 m height)



MODULAR SCAFFOLDING STAIRWAY TOWER

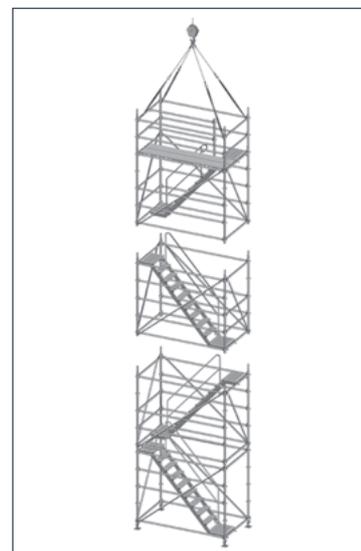


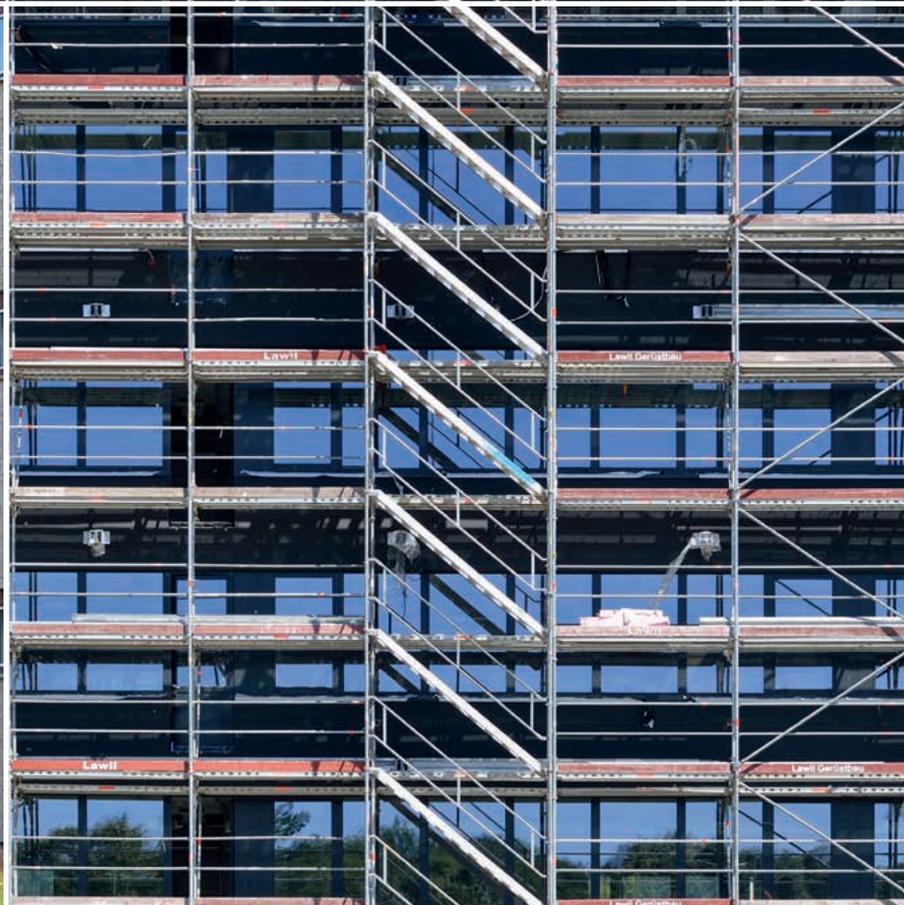
The modular scaffolding stairway tower is the perfect solution for excavations, shells, site accesses to formworks and much more. Thanks to the 2.21-m-long Allround standard, the stairway tower has no joint-crossing components and can be preassembled on the ground floor by floor and placed by crane. 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)

2617.221 Initial standard LW, steel
2.21 m with 5 rosettes









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.

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.

| | |
|--|-----------------------------|
| | SpeedyScaf |
| | Allround Scaffolding |
| | Accessories |
| | Protective Systems |
| | Shoring |
| | Event Systems |
| | Rolling Towers |
| | Ladders |



Headquarters in Eibensbach



Plant 2 in Gueglingen

Layher

More Possibilities. The Scaffolding System.

Wilhelm Layher GmbH & Co KG
Scaffolding Grandstands Ladders

Ochsenbacher Strasse 56
74363 Gueglingen-Eibensbach
Germany

Post Box 40
74361 Gueglingen-Eibensbach
Germany
Telephone +49 (0) 71 35 70-0
Telefax +49 (0) 71 35 70-2 65
E-mail export@layher.com
www.layher.com

