LAYHER SPEEDYSCAF®
CATALOGUE

Edition 04 2015
Ref. No. 8102.256

Quality management certified according to ISO 9001:2008 by German TÜV-CERT
HERE IS THE BEATING HEART OF LAYHER.

Quality made by Layher comes from Gueglingen-Eibensbach. Our company has set down deep local roots since it was established. Right up until today, development, production, logistics and management are all in one place, where the conditions are best for achieving quality made by Layher: in Gueglingen-Eibensbach. The two locations together cover a surface area of 318,000 m². This includes more than 142,000 m² of covered production and storage areas. This is where our scaffolding systems are created by highly automated production. Short distances and short reaction times mean we can adapt production to suit our customers’ requirements, flexibly and at any time.

MORE POSSIBILITIES. THE SCAFFOLDING SYSTEM.

This brand promise made by Layher is the expression of a brand philosophy that we’ve been living by for over 70 years. More speed, more safety, more proximity, more simplicity and more future: values with which we strengthen our customers’ competitiveness in the long term. With our innovative systems and solutions, we’re working all the time on making scaffolding construction even simpler, even more economical and, above all, even safer. With comprehensive services, a permanent range of training courses and an ethos of customer focus, more than 1,500 dedicated Layher employees are creating more possibilities for our customers every single day. In more than 30 countries all over the world.
MORE SPEED
We can supply any required quantity of the right products at the right time – to anywhere in the world. Layher has subsidiaries in more than 30 countries in all five continents, with a tight-knit network of national service centers. Speed is also the motto of our logistics concept. Customers have the choice of picking up their material at a Layher service center or having it delivered either to a warehouse or “just in time” directly to the site.

MORE EXPERIENCE
Tradition has grown into experience and expertise. Our experts pass on this knowledge – all over the world. Existing customers might want to try a different approach, while new customers might need support when assembling a Layher scaffolding structure. Layher’s specialists get to grips with the specific tasks and requirements, devising for our customers persuasive solutions that are both profitable and efficient. Good advice from Layher is guaranteed. We take care of our customers at every level, because cooperation with them on the basis of mutual trust as well as their success are important to us.

MORE KNOWLEDGE
Further training is the key to success. For this reason, Layher organizes regular training seminars that prepare our customers for current and future challenges specifically in scaffolding. This training scheme is backed up by many others options, for example practical product training courses and regular meetings for scaffolding erectors to promote the flow of information between experts and colleagues. And last but not least, Layher offers comprehensive publications on all topics to do with scaffolding construction.

MORE CLARITY
Saving time, using material in the best way, improving logistics. All that can be done with Layher’s planning software, LayPLAN, or the special Layher tools for AutoCAD®. Layher software means greater reliability when budgeting and planning scaffolding construction projects. Optimization of inventory management and complete cost transparency for the material used in a project. Once the dimensions and the required assembly variant have been entered, the Layher software supplies a scaffolding proposal with matching material list within seconds.

MORE QUALITY
People talk a lot about quality. We just produce it. Quality from Layher means state-of-the-art production processes, carefully selected materials, smart automation and a highly qualified workforce. Our products comply with the very latest security standards and possess DIN ISO certification, German TÜV approval, and many other German and international quality labels. 20,000 kilometres of steel tubing in high-quality workmanship are convincing testimony to Layher’s quality standards.
LIGHTWEIGHT BUT BETTER AND STRONGER.

THE LIGHTWEIGHT PHILOSOPHY – WITH HEAVYWEIGHT BENEFITS

Layher has been the driving force behind game-changing innovation in scaffolding for more than 70 years. In 1965, Layher SpeedyScaf revolutionised the industry; and 1974 saw the launch of Layher Allround Scaffolding, a modular product portfolio that took the world market by storm. And the unique Allround connector swept away conventional scaffolding technology.

But the time is now ripe for a new dimension in scaffolding: Layher Lightweight. Our mission has always been to lighten your load. In this case, we have taken our mission literally. By working hand-in-glove with our steel suppliers, Layher engineers have succeeded in developing special high-tensile steel — a steel that significantly lowers the weight of components. Despite reduced wall thickness and lower weight, these new Layher products deliver higher load-bearing capacity than the proven Allround system. The new connector creates considerably stronger transitions. The innovative ledger AutoLock means faster scaffolding erection and improved safety. And best of all: the Lightweight line is compatible with conventional Layher scaffolding. So you can continue to use your existing Layher components. All of them.

THE BENEFITS TO YOU:
- Enhanced load-bearing capacity.
- Lower weight.
- Fully compatible with all Allround components.

THE NEW LIGHTNESS OF BEING LAYHER.

INVESTING IN A BETTER FUTURE – FOR ALL STAKEHOLDERS

Layher is about more possibilities. And the Lightweight line underlines our pioneering role, by marking a new milestone. It is the result of a major, multi-year R&D project with a clearly defined objective: to make scaffolding easier, safer and above all more cost-effective for you, our customers.

The modular Layher Lightweight line will revolutionise the erection and dismantling of challenging scaffolding structures. The use of high-tensile steel allows reduced wall thickness, delivering a significant weight saving and higher load-bearing capacity. The result is lighter components, easier and faster erection, and lower shipment costs.

Higher productivity and lower shipment costs mean that an investment in Layher Lightweight pays for itself within less than one year.
SPEEDYSCAF LIGHTWEIGHT

SPEEDYSCAF EURO ASSEMBLY FRAME LW AND GANTRY FRAME LW

- With the assembly frame LW 2.00 x 1.09 m, the stile wall thickness was cut and the U-profile redesigned, delivering a total weight saving of 3.0 kg.
- With the gantry frame LW 1.50 m, the wall thickness was also cut. Combined with the redesigned U-profile, this delivers a total weight saving of 4.2 kg.
- Scaffolding can be erected more quickly; working conditions are improved; each truck can carry more material.
- Fully compatible with all SpeedyScaf components.
- Approval applied for.

SPEEDYSCAF EURO ASSEMBLY FRAME LW

SPEEDYSCAF EURO GANTRY FRAME LW

WEIGHT SAVING OF UP TO 4.2 KG

To view video of SpeedyScaf Lightweight, simply scan QR code.
Assembly frames
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Stairway access
Page 28

Assembly frames, Xtra-N-decks, Robust decks, Stalu decks, steel decks can be stamped individually. Wooden toe boards can be printed according to your preferences. Anti-theft protection and advertising in one.

Ask your Layher partner and order the brochure Layher Individual for free.

THE LAYHER PRODUCT RANGE – ALL CATALOGUES AT A GLANCE

- Speedyscaf System
  Ref. No. 8102.256
- Allround Scaffolding System
  Ref. No. 8116.252
- Scaffolding Accessories
  Ref. No. 8103.254
- Protective Systems
  Ref. No. 8121.253
- Event Systems
  Ref. No. 8111.227
- Rolling Towers
  Ref. No. 8118.225
All dimensions and weights are guideline values. Subject to technical modification.

Steel parts are galvanized according to EN ISO 4064 and EN 12811-2.

Our deliveries shall be made exclusively in accordance with our currently valid General Terms of Sale. These include the following provisions: The place of performance is Gueglingen-Eibensbach. Title to the delivered goods shall be retained until full payment has been made.

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.
This catalogue provides you with an overview of all the basic elements and accessories for the following scaffolding variants:

**SpeedyScaf 0.73 m wide, hot-dip galvanized steel**, up to load class 3 as per DIN EN 12811

**SpeedyScaf 0.73 m wide, aluminium**, up to load class 3 as per DIN EN 12811

**SpeedyScaf 1.09 m wide, hot-dip galvanized steel**, for load classes 4 – 6 as per DIN EN 12811 (depending on deck design and bay length).

Layher SpeedyScaf has general building authority approval from the Deutsches Institut für Bautechnik (German Civil Engineering Institute) in Berlin under the approval numbers
Z-8.1-16.2 SpeedyScaf 70 in steel,
Z-8.1-840 SpeedyScaf 100 in steel and
Z-8.1-844 SpeedyScaf 70 in aluminium
for regular version up to 24 m, plus possible spindle adjustment.

Type test Ty 9/96 by the Inspection Office for Structural Engineering Statics in Stuttgart relates to 10 standard versions of Layher SpeedyScaf 70 Steel with platform heights of up to 80 m. Structural calculations are available for other special extension versions.

**Simple frame scaffolding**

With just six basic elements and a few manual operations, this logically and safely erected scaffolding is "speedy" because it is assembled without bolts. Established on the market for several decades as the frame scaffolding equipment that leads the field, you can cater for almost every requirement with this unbeatably lightweight yet sturdy and stable system:

Standard assembly is achieved with the following 6 basic components:

- Base plates
- assembly frames
- scaffolding decks
- guardrails
- diagonal braces
- toe boards

Depending on the roof projection, optimum adjustment is achieved using brackets.

With Layher you choose between different scaffolding widths and between hot-dip galvanized steel or lightweight aluminium. Guardrails, diagonal braces and scaffolding decks are only needed once, as they fit into every SpeedyScaf structure.
THE BENEFITS TO YOU:

- **Unbeatably quick and easy.**
  Speedy assembly thanks to simple insertion technology, lightweight assembly frame and ergonomic handling. Assembled from six basic elements in a few easy operations.

- **Safe from the word go.**
  Uncompromising safety during assembly too. Firmly wedged components, positively and non-positively connected, ensure maximum stability while work is in progress.

- **Extremely flexible.**
  The comprehensive range of parts is suitable for every trade. Combinable with other Layher systems and products.

- **Extremely economical.**
  Simplicity and fitting precision mean a saving in time and enormous cost savings too. Exemplary and long service life plus availability for purchase to come.
Software for scaffolding construction

Planning of façade scaffolding using a computer is now even easier: The new LayPLAN software simply makes proposals for scaffolding, calculates the effort for assembly and dismantling, and provides printed out plans for more safety at the site. The completed drawing can be exported to AutoCAD, which can be used to do further editing.

Complete scaffolding in just three steps:

- Step 1: Plan out the scaffolding with the clearly structured LayPLAN software.
- Step 2: The printed-out plan provides you with the legal safeguard required by BetSichV and assists you in your logistics.
- Step 3: Planning saves you time when assembling the scaffolding – all the material needed is at the site.

The clearly structured interface of LayPLAN is self-explanatory. This obviates the need for user courses or the study of thick manuals. A compact set of instructions is provided on the program CD.

Base plates

To adjust to the ground, choose between different height-adjustable base plates with sturdy and self-cleaning round threads, with colour and notch markings to provide protection against overwinding. Make sure that there are sufficient load-distributing surfaces.

The round threads of all Layher scaffolding spindles have an outside diameter of 38 mm and a pitch of 8.10 mm. The wing external dimension of the spindle nut is 205 mm. The dimensions of the foot plate are 150 x 150 mm.

Further information can be found in our Accessories Catalogue.
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<td><strong>SINGLE LICENCE</strong>&lt;br&gt;LayPLAN SpeedyScaf system incl. material manager</td>
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- **Material manager**: Processing, managing and printing out of material lists

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<tr>
<td>3</td>
<td><strong>Scaffolding plank</strong>&lt;br&gt;for load distribution&lt;br&gt;45 mm high, freshly sawn, sorting category S 10</td>
<td>1.00 x 0.24&lt;br&gt;1.50 x 0.24</td>
<td>5.2&lt;br&gt;7.8</td>
<td></td>
<td>3816.100&lt;br&gt;3816.150</td>
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<td>4</td>
<td><strong>Base plate 60</strong>&lt;br&gt;(max. spindle travel 41 cm)</td>
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<td>3.6</td>
<td>200</td>
<td>4001.060</td>
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<tr>
<td>5</td>
<td><strong>Base plate 80, reinforced</strong>&lt;br&gt;(max. spindle travel 55 cm)</td>
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<td>4.9</td>
<td>200</td>
<td>4002.080</td>
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<td>6</td>
<td><strong>Base plate 150, reinforced</strong>&lt;br&gt;(max. spindle travel 100 cm), ensure sufficient structural strength</td>
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<td>10.0</td>
<td>25</td>
<td>4002.130</td>
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<td>7</td>
<td><strong>Swivelling base plate 60, reinforced</strong>&lt;br&gt;(max. spindle travel 32 cm), ensure sufficient structural strength</td>
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<td>6.1</td>
<td>250</td>
<td>4003.000</td>
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<td>8</td>
<td><strong>Wedge spindle swivel coupler</strong></td>
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**Note:**<br>WS = wrench size<br>PU = packaging unit<br>W = available ex works<br>P = delivery time on request<br>V = only available in this packaging unit<br>Z = the approval process is not yet completed

**EN_Katalog_Blitz_2015.indd** 09.03.2015 13:23:36
Euro assembly frames

The construction principle of the assembly frames ensures speedy, and stable assembly. The upper crosspiece is designed as a channel section into which the decks slide easily during assembly. The corner plate for receiving the diagonal braces and the guardrail wedge housings for dropping in the guardrails require no direct fitting or “aiming”, striking with a hammer blow ensures positive stable connections. The lower rectangular tube secures the decks automatically for further extension and the toe board pin accommodates the toe boards.

Advantages of the Euro assembly frame:
- Low weight
- Very rapid assembly of internal guardrails
- Versatile possibilities for anchoring
- Fast vertical assembly without a spirit level
- Maximum height clearance

All wall thicknesses are approved for the connection of couplers.

The handy Layher assembly frame has no outwardly projecting parts – it runs smoothly through the hands, and is therefore ergonomic. Very low external dimensions save on transportation and storage space.

Adjustment frames

The scaffolding can be adapted to the lie of the land with 0.66 m, 1.00 m and 1.50 m adjustment frames. Assembly always begins at the highest point. The 1.50 x 1.09 m assembly frame has two guardrail wedge housings, making it suitable for use in bricklayer’s scaffolding.

Gantry frames and assembly frames

for special applications, please see page 30.

Scaffolding pallets

The assembly frame pin pallet 9 is an optimised and low-cost solution for vertical palletising. It holds up to 20 assembly frames and is dimensioned such that 3 of them can be placed side by side on the truck loading surface. Fork guides and a central rung ensure absolute safety against tilting during fork-lift transport.

Further information and further pallets see chapter scaffolding pallets on page 38.
<table>
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<tbody>
<tr>
<td>1</td>
<td>Euro assembly frame, steel, Standard frame 2.00 x 0.73 m with 2 guardrail wedge housings (only external guardrails)</td>
<td>2.00 x 0.73</td>
<td>18.8</td>
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<td>Euro assembly frame, steel, Standard frame 2.00 x 0.73 m with 4 guardrail wedge housings (external and internal guardrails)</td>
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<td>19.6</td>
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<td>3</td>
<td>Euro assembly frame LW, steel, Standard frame 2.00 x 1.09 m, with 2 guardrail wedge housings (only external guardrails)</td>
<td>2.00 x 1.09</td>
<td>21.5</td>
<td>24</td>
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<td>4</td>
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<td>22.3</td>
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<td>1.00 x 0.73</td>
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<td></td>
<td>b) Adjustment frame 1.50 x 0.73 m*</td>
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<td>14.9</td>
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<td>7</td>
<td>Euro assembly frame, aluminium, Standard frame 2.00 x 0.73 m</td>
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<td>Euro assembly frame, aluminium, Standard frame 0.66 x 0.73 m</td>
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<td>9</td>
<td>Assembly frame pin pallet</td>
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<td>Retaining rod</td>
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</table>

WS = wrench size  PU = packaging unit  ★ = available ex works  ○ = delivery time on request  ☆ = only available in this packaging unit  ● = the approval process is not yet completed  IND = Layher Individual possible – see page 6
Scaffolding decks

Our scaffolding decks comply with the requirements of DIN EN 12811.
In the Layher system, depending on the type of application and scaffolding group but also in accordance with your working requirements and priorities, choose from decks made of hot-dip galvanized steel, aluminium, wood or an aluminium frame with plywood board. The load-bearing capacity of the overall system must be observed. The claws of the Layher scaffolding decks slide easily during assembly into the U-sections of the assembly frame, ensuring unbeatable speed of assembly.

The U-Xtra-N deck 4 is identical in construction with the robust deck, but is equipped with a glass-fibre-reinforced plastic plate. It is very weather-resistant: No rotting, no fungus growth, no split-open rivet holes. The breaking load of the plastic plate is about 3 times that of dry plywood. The surface has a proven anti-slip structure, which is very easy to clean. Plaster and dirt can be easily removed by using a high-pressure cleaner or a scraper.

The U-stalu deck 5-7 is a lightweight durable aluminium deck with sturdy, riveted steel caps.

With the Connecting clamp for Stalu deck 8, several stalu decks can be connected to avoid pedestals in the case of load.
<table>
<thead>
<tr>
<th>Pos.</th>
<th>Description</th>
<th>Usw up to load class</th>
<th>Dimensions L/H x W [m]</th>
<th>Weight approx. [kg]</th>
<th>PU [pcs.]</th>
<th>Ref. No.</th>
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<tbody>
<tr>
<td>1</td>
<td><strong>U-steel deck T4, 0.32 m wide</strong> steel, hot-dip galvanized perforated, non-slip working surface</td>
<td>IND</td>
<td>6</td>
<td>0.73 x 0.32</td>
<td>6.0</td>
<td>60</td>
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<td>6</td>
<td>1.09 x 0.32</td>
<td>8.4</td>
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<td>2.07 x 0.32</td>
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<td>2.57 x 0.32</td>
<td>18.2</td>
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<td>4</td>
<td>3.07 x 0.32</td>
<td>21.5</td>
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<td>4.14 x 0.32</td>
<td>29.8</td>
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<td><strong>Steel tube, 33.70 mm, hot-dip galvanized</strong> Fits through the edge holes of Ref. No. 3812</td>
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<td>1.50</td>
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<td><strong>U-steel deck, 0.19 m wide</strong> constructed as 3812 as equalizing deck, e.g. for birdcage scaffolding</td>
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<td>6</td>
<td>0.73 x 0.19</td>
<td>5.1</td>
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<td>3.07 x 0.19</td>
<td>15.3</td>
<td>50</td>
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<td>4</td>
<td><strong>U-Xtra-N deck, 0.61 m wide</strong> Aluminium stile section, glass-fibre-reinforced plastic plate extremely durable, lightweight, non-slip working surface</td>
<td>IND</td>
<td>3</td>
<td>0.73 x 0.61</td>
<td>7.0</td>
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<td>5</td>
<td><strong>U-stalu deck T9, 0.61 m wide</strong> extremely lightweight aluminium deck with sturdy, riveted steel caps, stacking height only 54 mm</td>
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<td>0.73 x 0.61</td>
<td>6.6</td>
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<td>8</td>
<td><strong>Connecting clamp for Stalu deck</strong></td>
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<td>10</td>
<td><strong>U-robust deck, 0.61 m wide</strong> Aluminium stile section, plywood panel BFU 100G phenolic resin coating and rot protection; lightweight, non-slip, easily stackable</td>
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Access decks, steel planks, gap decks

Internal scaffolding access
Our hatch-type access decks conform to the requirements of DIN EN 12811, with a separate or an integrated storey ladder for internal access.

A deck must be fitted using U-start ledgers (see page 28) or SpeedyScaf transoms (see page 32) as the erection surface for the lowest ladders.

External scaffolding access
Aluminium landing-type stairways with guardrails for convenient external access allowing the transportation of materials (see page 28).

Corner deck, adjustable 6
In the case of adjoining frame bays in 0.73 m wide scaffolding, the corners are covered with corner decks. System-conforming covers are therefore no longer a problem and you have a continuous deck surface with no risks of tripping or stumbling.

Hatch-type access with offset hatch 8/9
The offset hatch can be opened and closed even when bridging decks are placed on top.

The steel plank 11 is a safe bridging element capable of bearing high loads for all scaffolding systems. It is preferred to wooden planks for use in areas with stringent fire protection requirements.

- Long service life, reusable
- Lower weight compared with wood plank
- Non-slip and non-inflammable
- If at least 2 steel planks are adjacent to one another, they may also be used in brick guards

The support length must be at least 10 cm at every support. For scaffolding decks of wood, please see our catalogue Scaffolding Accessories.

Secure the planks with locking pins, 2 self securing steel bolts or 1 securing screw for each end.

For closing of system-caused gaps, gap covers 10 or the telescopic gap deck 15 can be used.

Further information here

Further information here

Further information here
<table>
<thead>
<tr>
<th>Pos.</th>
<th>Description</th>
<th>Usw up to load class</th>
<th>Dimensions L/H x W [m]</th>
<th>Weight approx. [kg]</th>
<th>PU [pcs.]</th>
<th>Ref. No.</th>
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<td></td>
<td>easy access with aluminium deck surface and aluminium access hatch</td>
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<td>U-robust hatch-type access deck, 0.61 m wide</td>
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<td>with integrated access ladder</td>
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<td>for angles from 45° – 90°, with toe board in steel</td>
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<td>in aluminium</td>
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<td>Access ladder T15, steel, 7 rungs</td>
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<td>Securing screw, long, steel hot-dip galvanized</td>
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</tbody>
</table>

**Note:**
- **WS** = wrench size
- **PU** = packaging unit
- **= available ex works**
- **= delivery time on request**
- **= only available in this packaging unit**
- **= the approval process is not yet completed**
- **= Layher Individual Possible – see page 6**
Side protection

You can choose between single 1 and double guardrails 2/3 in steel or double guardrails in aluminium. All guardrails are dropped into the guardrail wedge housings of the assembly frames and engaged on the wedge with a hammer blow to provide a positive and stable connection.

The end guardrails 4/5 are wedged to the vertical tube with the half-coupler.

The double end guardrails 6/7 are wedged to the guardrail boxes.

The adjustable guardrail 8 is suitable for inner and outer corners and for non-system bays. A pivoted guardrail connecting lug is provided.

Internal guardrail fixing device 9
Quick fixing of internal guardrails (also on older assembly frames) by wedging the U-profile to the assembly frame standard.

Guardrail box for Euro frame 10
Speedy fitting of internal guardrails to the Euro assembly frame. Guardrail boxes are attached simply by inserting and then turning them.

Guardrail coupler 11
For connecting guardrails outside the standard dimensions, and also for fitting wall-side guardrails to older assembly frames.

More Possibilities. The Scaffolding System.
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**Notes:**
- **WS** = wrench size
- **PU** = packaging unit
- **W** = available ex works
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---

Layher Individual possible – see page 6
Side protection

Toe boards 1
Easy fitting into the toe board pins, for complete three-part side protection. Wood, reddish-brown in colour.

Individual toe boards 3
The toe boards can be individually designed in printing and painting.

Half-coupler with toe board pin 4
Toe board connection to inner corners and SpeedyScaf rolling towers, for example.

Diagonal bracing

Diagonal braces 5
for vertically bracing the scaffolding parallel and vertical to the façade, tube diameter 42.40 mm.

Diagonal guidance for regular assembly is specified in the approval notification. The diagonal braces are inserted into the corner plate at the top end of the assembly frame. Wedged to the lower diagonal point with the approved wedge half-coupler, they provide an absolutely positive and stable bracing with easy correctability during assembly.

The horizontal strut must be installed in the foot area of the diagonal bay.

When the cover of the wedge half-coupler is directly underneath the hole marking, the scaffolding bay is vertically aligned.
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**WS** = wrench size  **PU** = packaging unit  **W** = available ex works  **P** = delivery time on request  **V** = only available in this packaging unit  **Z** = the approval process is not yet completed  **IND** = Layher Individual possible – see page 6
Brackets

SpeedyScaf can be quickly widened inwards or outwards: the console brackets are secured with the welded-on half-coupler in the corner plate of the assembly frame to form a deck level with the main scaffolding.

The plug-in console bracket 0.22 m 4 and 0.36 m 5 is used for quick modifications while building construction, when external thermal insulation compound systems will be fitted to the façade. Thus the required maximum distance between scaffolding and façade is ensured any time, without using internal guardrails. It is only fitted into the locking pin hole. There’s no need for alignment or screwing. The plug-in console bracket cannot be used in combination with roof guard supports.

The console bracket, 0.50 m 6 is used to lengthen or shorten scaffolding bays. When used for widening on the 0.73 m assembly frame, two decks, 0.61 m can be installed without gaps.

The console bracket, 0.73 m 7 may only be installed with a bracket support (section brace) 12.

The console bracket, 0.73 m, swivelling 8 is placed on the spigot of the assembly frame and can be swung clear after removal of the deck. A further advantage is its use for corner solutions, since a 0.73 m bracket can be fitted at the same height. It may also only be used with a bracket support.

The console bracket, 0.73 m, reinforced 9 can be used in SpeedyScaf 70 in steel up to 3.07 m bay length (up to load class 3) and in brick guards. In this case, it is possible to dispense with the bracket support with SpeedyScaf 70 in steel. The advantages of the console bracket, 0.73 m, reinforced 9:

- No need for section brace
- Less material needed
- Lower overall costs
- Coupler connection to frame possible at bracket level

The console bracket, 1.09 m 10 may only be installed with a bracket support (section brace) 12.

Bracket decks too must be secured against inadvertent lifting off, therefore either the single guardrail support or the lock against lift-off 11 is essential. The lift-off preventer is secured by means of locking pins.

Layher More Possibilities. The Scaffolding System.
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The maximum assembly height on brackets is dependent on the decks, bay lengths and assembly frames used. The appropriate structural strength specifications must be observed. Further information can be found in our SpeedyScaf Technical Brochure page 27.
The scaffolding must be anchored vertically to and parallel with the façade with resistance to both tensile and compressive stress. Layher offers speedy and safe solutions:

- **The SpeedyScaf wall tie 1**, which is fastened with a double coupler in the corner plate of the assembly frame and is supported with the fork plate on the channel section of the assembly frame.

- **The wall tie 2**, which is connected with two double or corner plate couplers to both upright tubes.

- **SpeedyScaf corner plate coupler 3**
  For outside and inside brackets too, continuous anchoring directly on the corner plate of the Euro assembly frame is possible and ensures a greater height clearance.

The anchoring forces in accordance with the approval or individual verification of structural strength can vary widely. The loading capacity of the anchoring, in particular of the anchoring foundation, must be carefully checked and verified (see instructions for assembly and use).

For double couplers see page 36. For insert testing instrument see catalogue scaffolding accessories.

The **ETICS-tie** is constructed for carrying high loads, parallel to the façade, in use together with external thermal insulation compound systems.

---

**1** SpeedyScaf wall tie with double coupler

**2** wall ties connected in a V-shape with one double coupler each to the inner standard.

**3** ETICS-tie 800 complete, up to approx 3.30 in utilization

**4** ETICS-tie rod 480, dia 100, for expanding plug

**5** Ring screw, for expanding plug 4ef 0o 8

**6** Cap, dia 24 mm 470 mm 1.8

**7** Telescopic stabilizer, steel, dia 135 mm 0.3 25

**8** Plastic pipe, 50 m 5.0

**9** Open ended wrench, WS 36 0.5

**10** ETICS-tie 600 complete, up to approx 0.69 in utilization

**11** ETICS-tie rod 380, up to approx 0.95 in utilization

**12** Plastic wall insert, 22 WS 0.9 25

**13** ETICS-tie 600, up to approx 8.0 in utilization

**14** Cap, dia 11 ETICS-tie 480, up to approx 100 mm 0.3 25

**15** Cap

**16** Lock nut, 4.0 20

**17** WS 36 x 3

**P** more possibilities, the scaffolding system.
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WS = wrench size  
PU = packaging unit  
Z = only available in this packaging unit  
W = the approval process is not yet completed  
® = Layher Individual possible – see page 6
Roofer’s guard system
The heightened side protection specified for roofing work is swiftly assembled in SpeedyScaf scaffolding: at the top level, attach the **brick guard support 1** instead of a guardrail support, drop in two brick guards for each bay (locking element determines how they are installed), knock in wedges, insert toe boards and locking pins – done!

**Euro assembly frames** are used to close off roofer’s guard system levels at the ends.

**Side protection net 3**
The nets are attached at the bottom (at scaffolding deck height) and at the top (2 m above the scaffolding deck) to a tube.

Without a quick strap fastener, the protection net is threaded with each loop of its mesh into the tubes. With quick strap fasteners, the protection net is attached to the tubes at every 750 mm. A toe board and a handrail are required in any event.

Protection net 10.00 x 2.00 m, specification:
Mesh width 100 mm, blue, made of PPM 4.50 mm, knotless, as per DIN EN 1263-1, type U

**Fan support 6**
Protection against falling objects. The surfaces must be covered with system decks. Two decks 0.61 m wide are dropped in horizontally, and one deck 0.61 m and one deck 0.32 m at an angle.

**Guardrail closure, top**
**Euro intermediate frames 7/8** with welded-on wedge housings secure the top work deck. Guardrails are dropped in and wedged as on the assembly frame.

The **Euro top end frames 9/10** for securing the scaffolding end sides are already provided using end guardrails. Only the toe board still has to be fitted.

Alternatively, it is possible to use 1.00 m high assembly frames with guardrail wedge housings on the end side. An end guardrail acting as a knee rail is also required here. For fastening reasons, only **double guardrails** can then be installed on the longitudinal side. One guardrail lug of the hand rail is inserted into the channel section of the assembly frame on the end side. The other three guardrail lugs are wedged as usual.

Securing of the top scaffolding level with **locking pins** is recommended (see page 32).
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**Key:**
- **WS** = wrench size
- **PU** = packaging unit
- **V** = only available in this packaging unit
- **Z** = the approval process is not yet completed
- **IND** = Layher Individual possible – see page 6
Scaffolding access, outside

The **Aluminium platform stairs** offers increased safety, convenience and speed when ascending the tower. Material transport is facilitated by the additional use of the work decks as allround walkways. The external landing-type stairway is covered by the approval in its regular version (up to 24 m); this means that with a load capacity of 2.5 kN/m² no further verification is needed. Maximum construction height: 40 m depending on structural analysis.

The platform stairway tower will be connected to the work scaffolding using the **U-distance coupler**. The 0.19 m wide “gap-deck” bears in the U-profile of the coupler. Alternatively the stairway tower can be connected directly to work scaffolding. The gap will be closed using the **telescopic gap deck** (see page 16).

**Starter U-transom for 4:**
- Scaffolding access with platform stairs, at the entrance for dropping into the stairway;
- Ladder access to the 0.73 m wide scaffolding, accommodates at the lowest level of an access bay the deck that may be required for setting up the ladder.

The **Comfort stairway** bases on the platform stairway and has reinforced stringers and step sections. The 175 mm wide grooved steps guarantee more comfort when ascending the stairs, especially for high stairway heights. Guardrails, internal guardrails and stairwell guardrail can be used from the platform stairway.

**Outer landing-type stairway access**
(stairs in identical direction)

**Modular stairway**

With the **modular stairway**, accesses that always fit and that match the system can be constructed. Any intermediate dimension can be achieved simply by fitting together the individual stairway parts. The stairway rises 20 cm from step to step, and the bottom element with spindles is used for precise levelling. A wide variety of applications thanks to modular design. Little space needed for transport and assembly.

**Modular stairway**

Height differences from 0.60 m to 1.60 m can be bridged. Load-bearing capacity: 3.0 kN/m². 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.
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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.

**U-stairway stringer 500:**
- Permissible load-bearing capacity 5.0 kN/m² for 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

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System lattice beam

SpeedyScaf lattice beam LW 1

The top chord with engagement lugs at both ends and spigots for further construction in the standard dimension is dropped into the spigots of the assembly frame, while the bottom chord must be connected with lattice beam couplers 2 to the upright tube. The use of the SpeedyScaf lattice beams is governed by the approval notification, which must be complied with. If the aluminium SpeedyScaf lattice beam is used, bear in mind the reduced load-bearing capacity! For bridging of up to 4.14 m distances with steel or aluminium decks in the standard SpeedyScaf assembly.

Steel lattice beam, system free 5

With type calculation:
- Permissible spans ranging from 3 m to 12 m
- Different types of support and loads
- All values in table form, hence no need for structural strength verification for the lattice beam
- Calculation reliability.

Further lattice beams you’ll find in the catalogue Scaffolding Accessories.

Assembly frames for special applications

The gantry frame LW 6 for safe protection of pedestrians underneath the scaffolding, by rebolting the central spigot for 0.73 m or 1.09 m scaffolding width.

The Euro assembly frame, 2.00 x 0.36 m 8 for assembly in narrow areas, e.g. between house walls, where a normal assembly frame is too wide. Possibilities for connection of locking wedge housings to both side rails.

The Euro assembly frame, 2.00 m, for balustrade 9 is used where a roof projection projects into the scaffolding. Above it, a maximum of four further levels can be constructed using standard assembly frames.

The Euro eaves bracket, 1.00 m 10 meets workplace requirements for painters, plasterers, plumbers and roofers. It obviates the need for structures requiring much time and material. The deck in the main scaffolding must be secured using the lift-off preventer Ref. No. 1743. The toe board can be suspended in the eaves bracket.

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<td>1</td>
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<tr>
<td></td>
<td>5.14 m (2 x 2.57 m bay)</td>
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<td>46.4</td>
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<td>when bridging with SpeedyScaf lattice beams</td>
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<td>a) 0.73 m</td>
<td>1.09 m</td>
<td>4.3</td>
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<tr>
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<td>incl. 4 bolts, for lattice beams 4912 and 4922</td>
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<td><strong>Euro assembly frame, 2.00 m, for balustrade</strong></td>
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<td>10</td>
<td><strong>Euro eaves bracket, 1.00 m</strong></td>
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<td>14.8</td>
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</tbody>
</table>

If further construction is planned on Euro assembly frame 2.00 x 0.36 m with Euro assembly frame 0.73 m, a bracket 0.36 m must be connected. Assembly frames 0.73 m can then be fitted without a lower cross rung.
The SpeedyScaf transom 1 is used for constructing intermediate levels.

Many other parts for non-standard scaffolding applications are available on request.

For large roof overhangs, use the installation of aluminium bridging ledgers 3. Spigots 4 on aluminium bridging ledgers hold the assembly frames above them and permit a 0.50 m or 1.00 m reduction of the bay width.

With the reducer from 1.09 m to 0.73 m 5, it is possible to reduce the scaffolding width from 1.09 m to 0.73 m. This can be necessary for example at great heights for structural reasons. This makes it possible to use assembly frames 70 on a substructure of meter-wide scaffolding.

The assembly frame joints are secured with locking pins 6 in special cases against unintentional lifting off, for example when scaffolding units are moved with a crane, when brick guard supports are used or in particular wind conditions.

**Castors 7**

The mobile solution for birdcage, bridge or suspended scaffolding is often the best alternative in terms of technical suitability, scheduling and price. In this field too, the choice, the delivery capability and not least the experience of the manufacturer point to Layher. If scaffolding is made mobile using castors, DIN 4420-3 applies. For these rolling towers, verification of structural strength is required.

Robust castors 7 with twin brake (it brakes wheel and slewing ring) for various loads, offer a safer mobility of the scaffolding – without high effort.

Further castors with higher load capacity or for sensitive floorings you’ll find in the catalogue Scaffolding Accessories.

The telescopic device: width max. 3.20 m, min. 2.30 m. The mobile beam can be used for all scaffolding systems (rolling towers, frame, modular and other scaffolding, tube-and-coupler) with a tube diameter of 48.30 mm.
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<td>of bay length</td>
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<tr>
<td></td>
<td>of bay length</td>
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<td>Plastic wheel, dia. 200 mm. With base plate, adjustment range 0.30 – 0.60 m,</td>
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<td></td>
<td>spindle nut with lock, castor with twinbrake lever and load centering when</td>
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<td></td>
<td>braked. Wheel and slewing ring can be locked. Permissible load: 7.0 kN</td>
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<td>Steel rectangular tube, hot-dip galvanized. For base widening in special</td>
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<td>0.46</td>
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</table>

**WS** = wrench size  **PU** = packaging unit  **V** = only available in this packaging unit  **P** = delivery time on request  **Z** = the approval process is not yet completed  **IND** = Layher Individual possible – see page 6
Weather protection

The weather protection support 1 is used for tarpaulin coverings against exposure to the weather at the top level of SpeedyScaf structures.

At the top scaffolding level, all assembly frames to which the weather protection support is attached must be anchored to the building for resistance to tension and compression.

The weather protection support must be attached to the guardrail support and to the assembly frame using two swivel couplers, Ref. No. 4702, and additionally braced as shown in the sketch using a steel scaffolding tube (length = 1.50 m). On the outside, tilting pins are used for suspension of the tarpaulins, and at the top there are two guardrail wedge housings for bracing using guardrails.

Layher couplers and further tarpaulins can be found in our Accessories Catalogue.

Temporary intermediate roof

The roof tarpaulin 2 is secured to the horizontal or longitudinal ledgers or guardrails of the scaffolding bay. The inner and outer ledgers must be connected vertically offset from one another depending on the roof pitch. The roof tarpaulin will be fixed with elastic strap fasteners in only a few minutes. Quick belts on the wall side allow a tensioning against the building wall and ensure a good connection to the building.

The projecting may be between 0.40 and 0.70 m. Recessed fiberglass rods offer stability in the transverse direction. The installation of the roof plan is scaffolding bay by bay. The tarpaulin ends will be easily closed with a hook and loop fastener. Structures outside of the rule require a proof in individual cases.

With this innovative solution, for example, painters and plasterers are protected from precipitation and can perform their work regardless of the weather. At the same time the roofing ensures protection of the fresh masonry.

Railing clamp

Railing clamp 3

According to German regulations BGV C22 relating to construction work, a fall protection system must be provided for work areas and walkways on roofs and intermediate levels where the height of the fall is more than 2.00 m. The Layher railing clamp satisfies these requirements for securing concrete floor slabs or fascias of 16 – 33 cm in height and flat roofs.

The brick guard must be built in accordance with applicable regulations. The bay widths can be freely selected, max. 3.07 m long. The guardrail standard 4 is attached to the railing clamp and receives the guardrail. When installing on floor slabs, toe boards must be provided; these can be omitted in installation on fascias.

More solutions for weather, environment and pedestrian protection, please see the catalogue Protective System.
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<td>Tarpaulin for temporary intermediate roof</td>
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</table>

Example for use of the railing clamp on floor slab:

Example for use of the railing clamp on fascia:
### Accessories

**Scaffolding couplers 1/2** connections, in steel, drop-forged; as per DIN EN 74 and general building authority approval from the DIBt (German Civil Engineering Institute). Tightening torque of collar nuts 50 Nm.

Standardised **scaffolding tubes** in steel (hot-dip galvanized) or aluminium permit, in conjunction with scaffolding couplers, special assembly and extension outside the regular version.

### Tools

Identification and prohibition signs for work scaffolding as per DIN EN 12811-1. Suitable **see-through pocket** made of transparent plastic for weather protection. The three-piece **scaffolding identification pad** with carbon copy developed to tag work scaffolding. The right part is the inspection record for your files. Your client gets the carbon. On the back side of the carbon, important application notes are listed.
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<td>6.00</td>
<td>25.0</td>
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<td>4600.600</td>
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<tr>
<td>4</td>
<td>Ratchet spanner</td>
<td>19 WS</td>
<td>0.7</td>
<td></td>
<td>4740.019</td>
</tr>
<tr>
<td></td>
<td>with reinforced head</td>
<td>22 WS</td>
<td>0.7</td>
<td></td>
<td>4740.022</td>
</tr>
<tr>
<td>5</td>
<td>Magnetic spirit level</td>
<td></td>
<td>0.4</td>
<td></td>
<td>4006.666</td>
</tr>
<tr>
<td>6</td>
<td>Scaffolding identification pad</td>
<td>DIN A4</td>
<td>0.5</td>
<td></td>
<td>6344.500</td>
</tr>
<tr>
<td></td>
<td>Pad with 50 + 50 pieces (Original + Carbon) with centre perforation and foldover as carbon-block</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Scabbling pick, 600 g, with steel tube handle and rubber safety grip</td>
<td>0.32</td>
<td>0.9</td>
<td></td>
<td>4421.050</td>
</tr>
<tr>
<td>8</td>
<td>Prohibition sign</td>
<td>0.18 x 0.14</td>
<td>0.2</td>
<td>20</td>
<td>6344.201</td>
</tr>
<tr>
<td>9</td>
<td>See-through pocket</td>
<td>0.24 x 0.16</td>
<td>0.1</td>
<td>10</td>
<td>6344.001</td>
</tr>
</tbody>
</table>

**Table Notes:**
- **WS** – wrench size
- **PU** – packaging unit
- **A** – available ex works
- **P** – delivery time on request
- **V** – only available in this packaging unit
- **Z** – the approval process is not yet completed
- **L/H x W** – length/height x width
- **approx.** – approximate
- **Ref. No.** – reference number

- Layher Individual possible – see page 6
Fall protection

According to German BGV C22 regulations, equipment to prevent falls by personnel must be provided for work areas and walkways where the height of the fall is more than 2.0 m.

The PSA-safety harness AX 60 C 1 has impressive features:
- Comfortable, padded and ergonomic back support
- Convenient tool holders and click-locks for easy fastening
- High operational dependability and absolute freedom from maintenance, plus very simple fastening
- Operating errors are not possible, as the equipment operates in any position
- Excellent running even under gruelling working conditions
- Enormous distribution of forces in the event of a fall.

Before use, visual checks must be performed regularly to ensure correct working order. In accordance with German BGR 198 regulations, all personal safety equipment must be inspected at least once a year by an expert. The maximum permissible period of use for the equipment must not be exceeded.

The advance guardrail post 4/5, the advance telescopic guardrail 1.57/2.07 m, the advance telescopic guardrail 2.57/3.07 m 6 and the End-AGS 7 are used for temporary protection against falls during assembly of scaffolding parts on the uppermost, unsecured scaffolding level.

<table>
<thead>
<tr>
<th>Extension lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article</td>
</tr>
<tr>
<td>Assembly guardrail 1.57/2.07 m</td>
</tr>
<tr>
<td>Assembly guardrail 2.57/3.07 m</td>
</tr>
</tbody>
</table>

Scaffolding pallets

Tube pallets

in square shape (85) or in rectangular shape (125). The pallets are open on all sides. Tubes, standards, guardrails, diagonal braces, toe boards are transported and stored with this pallet. The empty pallets, stored permanently in the base frame using pallet posts, can be transported and stored in a space-saving way.

Tube pallet 125 11

The following can be transported, for example:
- 13 Frames, 0.73 m or 11 Robust decks 0.61 m or 15 Stalu decks 0.61 m or 24 Steel decks 0.32 m.

Modular pallet and skeleton box 13/14

The palette or the skeleton box can be stacked with Euro pallets. Crane eyelets at top; an opening allows stacked material to be removed even if several pallets are stacked one above the other. The integrated timber base plate is 30 mm thick and it’s nailed onto 50 x 50 mm square timbers.

More pallets you’ll find in the catalogue Scaffolding Accessories.

More Possibilities. The Scaffolding System.
### Scaffolding pallets

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Assembly frame pin pallet</td>
<td>0.73 m</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.09 m</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>1.20 x 0.77</td>
<td>34.0</td>
<td>10</td>
<td>5113.073</td>
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<td></td>
<td></td>
<td>1.20 x 1.13</td>
<td>36.2</td>
<td>10</td>
<td>5113.109</td>
</tr>
<tr>
<td>9</td>
<td>Retaining rod</td>
<td>1.20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Retaining bar</td>
<td>1.12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Tube pallet 125</td>
<td>1.37 x 0.97</td>
<td>35.0</td>
<td>10</td>
<td>5105.125</td>
</tr>
<tr>
<td></td>
<td>Steel, hot-dip galvanized, length of pallet posts: 0.86 m, load 1500 kg</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>12</td>
<td>Tube pallet 85</td>
<td>0.97 x 0.97</td>
<td>30.8</td>
<td>10</td>
<td>5105.085</td>
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<tr>
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<td>Steel, hot-dip galvanized, length of pallet posts: 0.86 m, load 1500 kg</td>
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</tr>
<tr>
<td>13</td>
<td>Modular pallet</td>
<td>1.26 x 0.86</td>
<td>45.0</td>
<td>5</td>
<td>5101.061</td>
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<tr>
<td></td>
<td>Steel, hot-dip galvanized, fill height 0.74 m, load 2000 kg, external dimensions 1.26 x 0.86 m</td>
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<tr>
<td>14</td>
<td>Modular skeleton box</td>
<td>1.26 x 0.86</td>
<td>85.8</td>
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<td>5113.002</td>
</tr>
<tr>
<td></td>
<td>Steel, hot-dip galvanized, fill height at front 0.53 m, fill height at rear 0.74 m, load 2000 kg, external dimensions 1.26 x 0.86 m consisting of 5113.000 Modular skeleton box and 6494.514 timber base plate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
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- **Z** = the approval process is not yet completed
- **P** = delivery time on request
- **E** = available ex works
- **K** = Layher Individual possible – see page 6
Stair head section
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0.95 m 29
Stair middle section
0.60 m 29
0.95 m 29
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Stairway-guardrail post 29
Stairwell guardrail 29
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Steel-gap cover, 0.32 m wide 17
Steel lattice beam
450 system free 31
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Steel plank
0.20 m 16
0.30 m 17
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U-aluminium access deck, 0.61 m wide 17
U-aluminium hatch-type access deck 17
U-comfort stairway aluminium 0.64 m wide 29
U-distance coupler 28, 29
U-hatch-type steel access deck, 0.64 m wide 17
U-ledger for lattice beam 31
U-platform stairway aluminium 0.64 m wide 29
U-robust deck
0.32 m wide 15
0.61 m wide 15
U-robust hatch-type access 0.61 m, hatch offset 17
U-robust hatch-type access deck 0.61 m wide 17
U-stairway stringer 500 29
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.