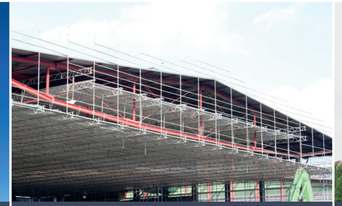
PROVEN IN INDUSTRIAL APPLICATIONS

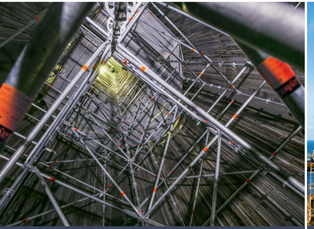
Bridging system | Dillinger Huette

From planning to implementation with SIM | Sugar silo

Suspended scaffolding | Refinery


Birdcage scaffolding and lattice beam | Landfill

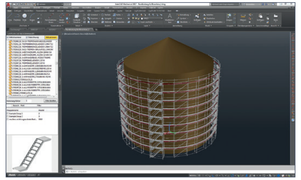
Circular scaffolding | Refinery


Allround LW in boiler of a paper factory

Protect-System | Oil rig

DIGITAL SCAFFOLDING PLANNING
SIM | SCAFFOLDING INFORMATION MODELING

Digitalisation optimises project planning effectively, while opening up enormous potential for transparency and cost savings.



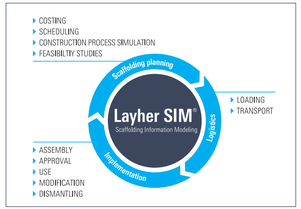
The future in scaffolding construction is digital – and it's name is SIM

Scaffolding Information Modeling – SIM for short – is a process based on 3D models and designed by Layher to meet the specific requirements of scaffolding construction. SIM not only allows you to plan, assemble and manage temporary scaffolding structures more efficiently, but also affords access to BIM at the same time. With the integrated Layher software solution "LayPLAN SUITE", you have a powerful tool for the SIM process: LayPLAN CLASSIC facilitates a start in digital planning by allowing automated planning of predefined scaffolding applications – and if required even with temporary roof structures. For complex scaffolding structures as part of large-scale engineering scaffolding, there is LayPLAN CAD.

Planning and scheduling certainty at sites

Dependable 3D planning of scaffolding structures without collisions is just one of many benefits. Added to that are the realistic visualisation of scaffolding, allowing work to be coordinated with other trades or construction sequence simulation, transfer of the scaffolding planning to structural analysis programs, and output of material lists and assembly plans. Transparency at every work step results in a reduction in costs and an increase in safety and profitability. When they work with Layher's scaffolding construction customers, both building contractors and end customers in industry benefit, with SIM, from a high degree of planning certainty, cost control and above all completion of projects on schedule thanks to efficient and undisrupted construction processes. Delays and added costs due to inadequate planning are a thing of the past.

Process content of SIM



THE BENEFITS FOR YOU:

- Transparency in all work steps and cost control.
- Increase in safety and in profitability for every project.
- Planning and scheduling certainty at every site.
- Your access to BIM.

The modules of LayPLAN SUITE

LayPLAN CLASSIC
LayPLAN CAD
LayPLAN 3D PLANNER
LayPLAN PROJECT MANAGER
LayPLAN 3D VIEWER

Further information on SIM can be found in the brochure: **System Solutions for Digitalisation and Software**

Further information about SIM in industry can be found on film at: **http://yt-sim-ind-en.layher.com**

Layher®
More Possibilities. The Scaffolding System.

Wilhelm Layher GmbH & Co KG
Scaffolding Grandstands Ladders

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Germany

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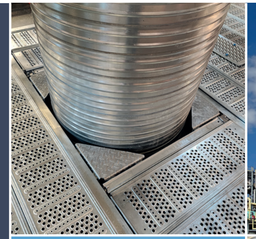
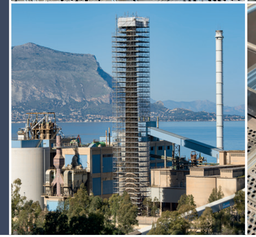
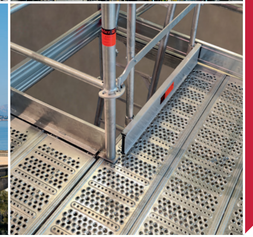
Ref. No. 8116.240

Layher®
More Possibilities. The Scaffolding System.

LAYHER ALLROUND SCAFFOLDING®
EXPANSION PARTS IN INDUSTRIAL SCAFFOLDING CONSTRUCTION
LAYHER ALLROUND SCAFFOLDING U-VERSION







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Ref. No. 8116.240

Quality management certified to DIN EN ISO 9001

LAYHER ALLROUND SCAFFOLDING®

FW System craned in | Wind farm Beatrice

Column scaffolding | Refinery

Wood-free work scaffolding at power station

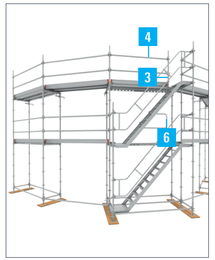
FlexBeam and FW System | Waste incineration plant

Crane-movable tunnel scaffolding | Tunnel repair

AllroundScaffolding

SAFER ACCESS

DETAILED SOLUTIONS FOR INDUSTRIAL SCAFFOLDING CONSTRUCTION



1 **U-platform stair, aluminium**
1753.257 – 307
1753.251 / 252 / 258 / 308
alternatively
U-comfort stair
1755.257 – 307

2 **Stair guardrail**
2638.257 – 307
2638.251 / 252 / 258 / 308
available with:
U-forks
swivelling wedge heads

3 **Stair guardrail post**
for continuous safeguard around the top stair level
2638.400

Stair guardrail adapter
for stair guardrails with U-fork
2637.000

4 **O-ledger with wedge head and half-coupler**
for continuous safeguard around the top stair level 2638.401 / 402

5 **Internal stair guardrail**
WS 19
1752.007 / 009 / 012 / 011
WS 22
1752.008

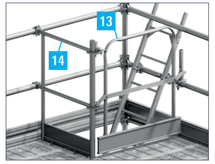
6 **Stairwell guardrail**
WS 19 / 22
1752.004 / 014

7 **Scaffolding access ladder**
Aluminium
1004.010 / 014 / 017 / 020
Steel
1002.006 / 008 / 012 / 016

8 **Access ladder**
4009.007

9 **Guardrail standard, 1.70 m, offset**
2606.170

10 **Ladder holder for external access**
0737.309

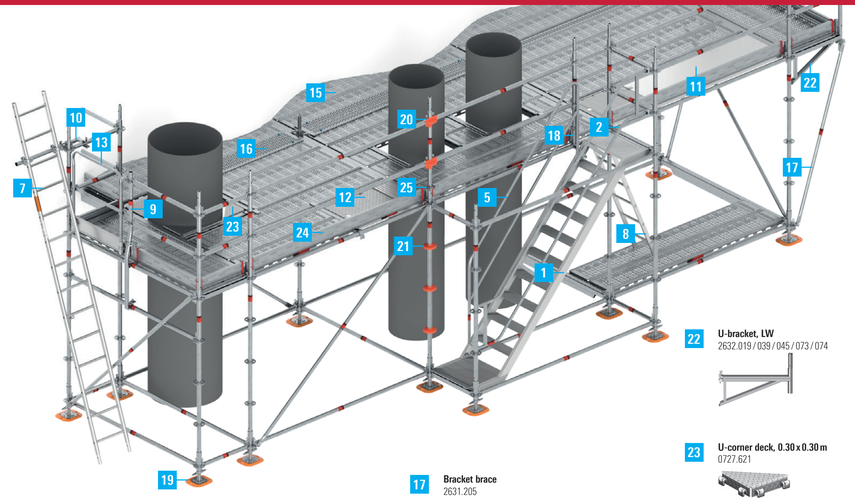


11 **U-access deck, aluminium**
0.61 m wide 3851.157 – 307

12 **U-access deck, aluminium, 1.00 m**
0.61 m wide 3851.100

13 **Swing door with aluminium toe board, adjustable**
0.73 m wide 2627.011
1.00 m wide 2627.012

14 **Side protection for ladder access, 0.75 m wide**
WS 19 2627.018
WS 22 2627.016



15 **U-steel deck LW**
0.32 m wide 3883.073 – 307
0.19 m wide 3801.073 – 307

16 **Steel cover plate 320**
0.32 m wide 3881.000 – 005

17 **Bracket brace**
2631.205

18 **Spigot with half-coupler**
WS 19 4706.019
WS 22 4706.022

19 **Protective base for base plate**
4007.005

20 **Allround rosette cover**
with connected ledger
4007.001

21 **Allround rosette cover**
without connected ledger
4007.008

22 **U-bracket, LW**
2632.019 / 039 / 045 / 073 / 074

23 **U-corner deck, 0.30 x 0.30 m**
0727.621

24 **U-steel toe board**
2644.073 – 307

25 **Toe board holder**
2638.000

Half-coupler with toe board pin
WS 19 / 22 4708.019 / 022

Base plate, swivelling
4003.000

Wedge head coupler LW, double
2629.000

Rosette, clampable
WS 19 / 22
2602.019 / 022

Rosette, clampable, with thread
WS 19 / 22
2602.119 / 122

Clamping coupler
for I-beam
WS 19 / 22 4716.019 / 022

Clamping half-coupler
for I-beam
WS 19 / 22 4750.019 / 022

Clamping plate
for I-beam
70 – 210 mm resp.
190 – 330 mm
4015.210 / 211

Half-coupler with plate
2628.001

Spigot for U-section
2656.000 / 2656.001 / 2656.002

Wedge head coupler LW, rotating
WS 19 / 22 2629.019 / 022

Wedge head coupler LW, rigid
WS 19 / 22
2628.019 / 022

Suspended scaffolding attachment for tension strap with tube
0724.241

Suspended scaffolding coupler
WS 22 4713.022

Securing hook
for suspended scaffolding coupler
WS 24 4714.000

Securing screw, long (red) for steel planks and short (blue) for cover plate
WS 19 3800.009
WS 22 3800.010
WS 19 3800.011
WS 22 3800.012

Steel plank
0.20 m wide 3878.100 - 250
0.30 m wide 3880.100 - 250

U-deck 110,
0.11 m wide, with wedge heads
0.73 – 3.07 m 2602.073 - 307

Guardrail, adjustable
1.09 – 1.57 m 2606.001
1.57 – 2.57 m 2606.000

U-ledger
Steel deck – O-ledger
0.32 / 0.64 / 0.96 m
2614.001 / 002 / 004

U-ledger
Steel deck – steel deck
0.32 / 0.64 / 0.96 m
2614.030 / 073 / 108

U-interchangeable ledger
0.73 – 3.07 m 2600.073 – 307

U-Aluminium access deck
0.50 m wide, 2.07 m long
0734.011

U-aluminium deck, adjustable
1.57 – 2.57 m 3803.000

U-steel deck 45°
3868.101 – 108

U-corner deck
0.36 / 0.73 m
2630.037 / 070

U-corner deck, steel, adjustable, with toe board 3819.000
for angles of 45° – 90°

Telescoping U-system deck
0.73 – 3.07 m 3881.073 – 307

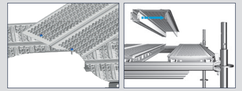
U-ledger 110 LW
0.11 m wide, 0.73 – 2.57 m
2675.073 – 257

U-ledger
0.73 m, 15° – 44°, WS 19
2618.000

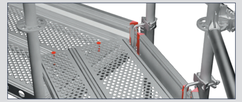
Plastic underlay for base plate
0.26 x 0.26 x 0.02; grey, with burls for easy stacking
4000.700

Steel cover plate on steel deck with blue securing screw

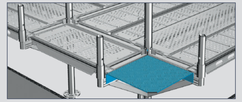
Assembly situation Telescoping system deck



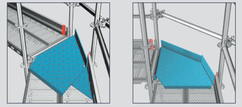
Red securing screw when steel plank is used



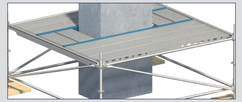
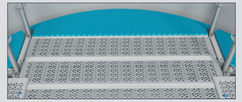
Corner construction on the inside (Ref. No. 2630.037)



Corner construction in circular scaffolding (Ref. No. 3819.000)



U-interchangeable ledger in installed state (Ref. No. 2600.073 / 109)



Project-related special solutions integrated into the system