

PROVEN IN INDUSTRIAL APPLICATIONS



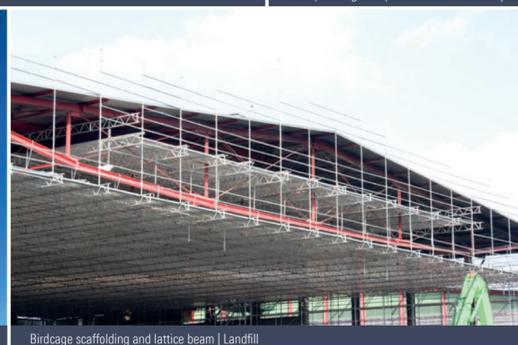
Bridging system | Dillinger Huette



From planning to implementation with SIM | Sugar silo



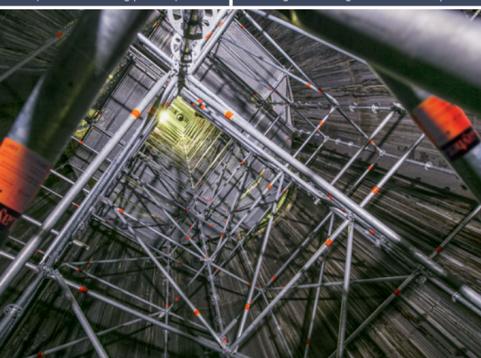
Suspended scaffolding | Refinery



Birdcage scaffolding and lattice beam | Landfill



Circular scaffolding | Refinery



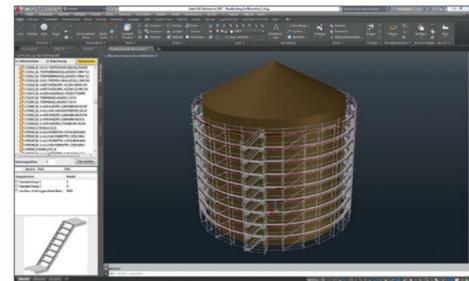
Allround LW in boiler of a paper factory



Protect-System | Oil rig

DIGITAL SCAFFOLDING PLANNING SIM | SCAFFOLDING INFORMATION MODELING

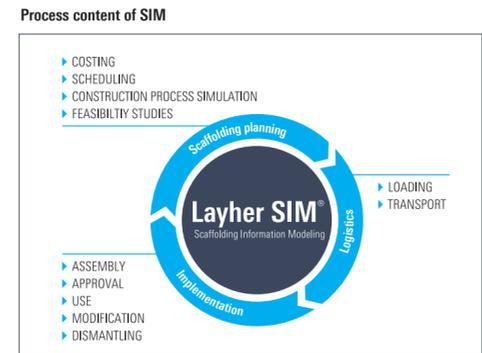
Digitalisation optimises project planning effectively, while opening up enormous potential for transparency and cost savings.



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.



- 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 VR VIEWER
- LayPLAN SIM
- LayPLAN TO EXIST

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.

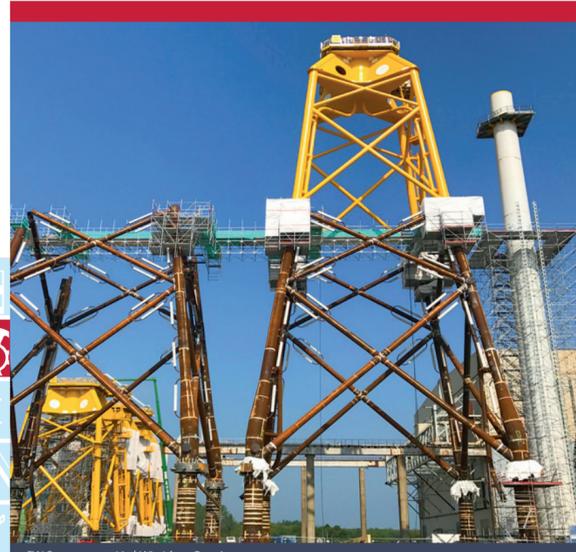
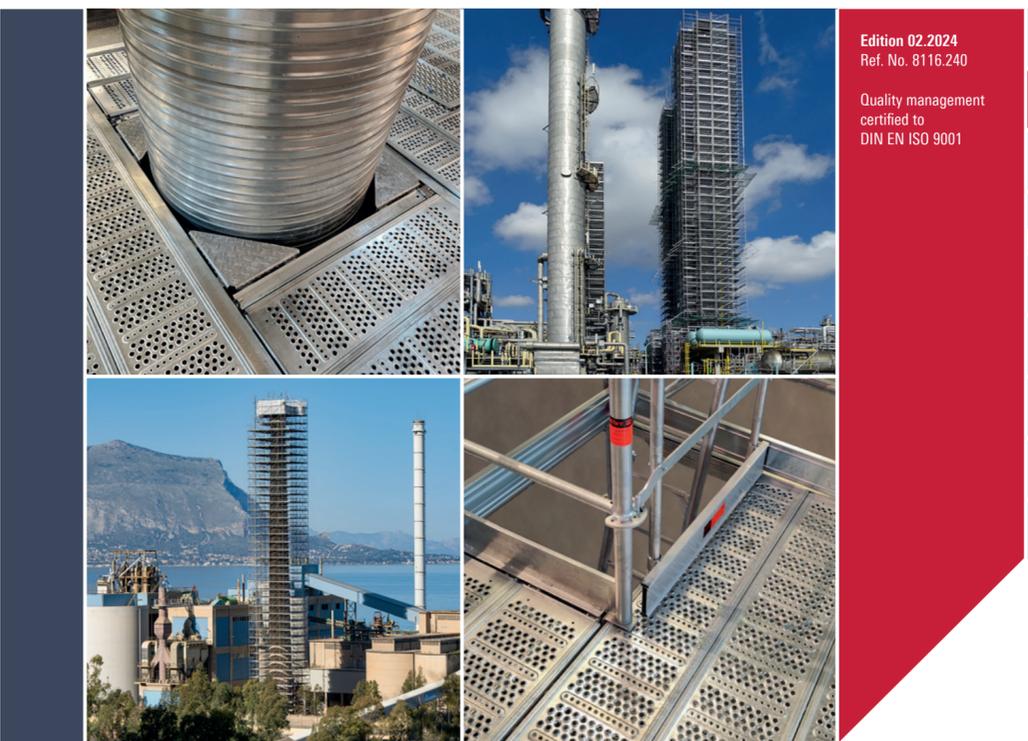
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Layher
More Possibilities. The Scaffolding System.

LAYHER ALLROUND SCAFFOLDING®

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



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

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-ledge 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

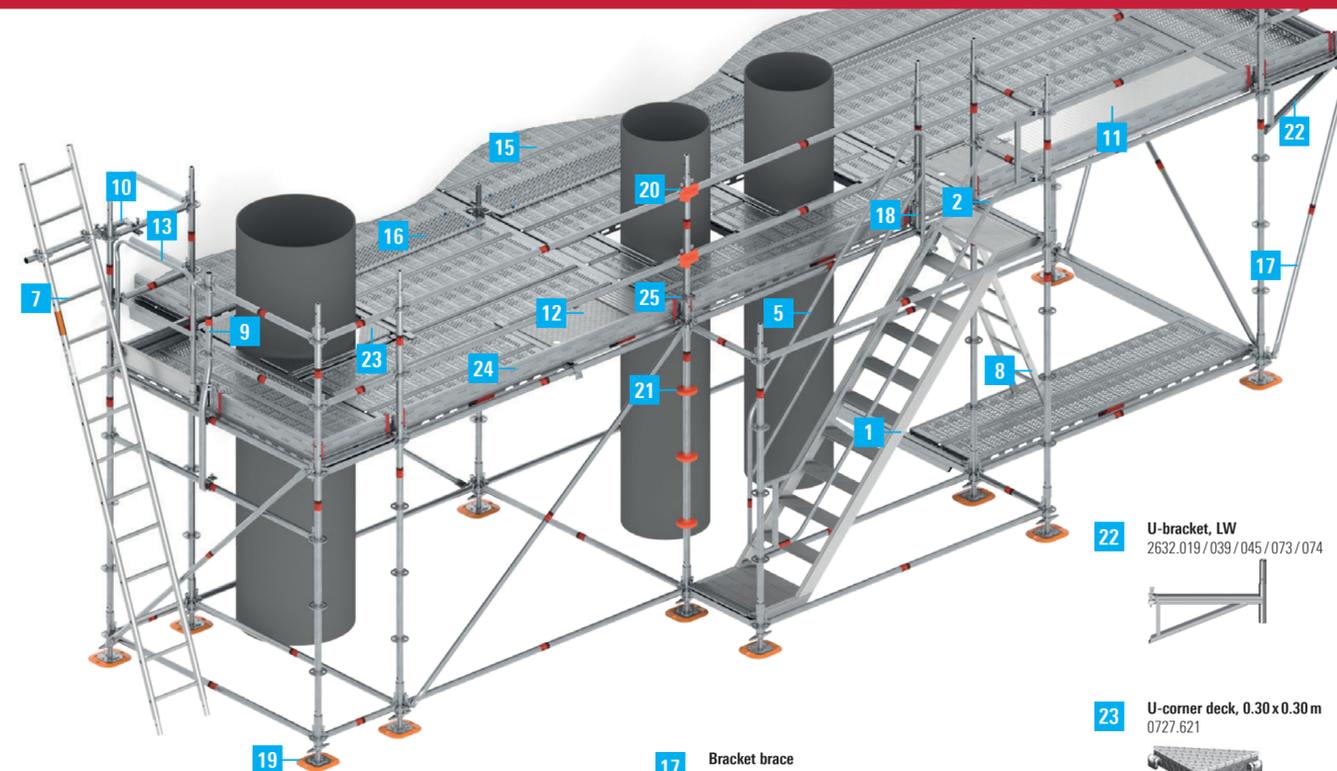


11 U-access deck, aluminium
0.61 m wide 3851.157-307

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

19 Protective base for base plate
4007.005

20 Allround rosette cover with connected ledger
4007.001

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

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

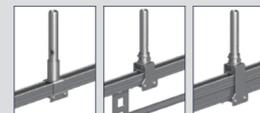
Half-coupler with toe board pin
WS 19/22 4708.019/022

Half-coupler with plate
2628.001

Base plate, swivelling
4003.000

Spigot for U-section
2656.000/2656.001/2656.002

Wedge head coupler LW, double
2629.000



Rosette, clampable
WS 19/22 2602.019/022

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

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

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

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

Suspended scaffolding attachment for tension strap with tube
0724.241

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

Suspended scaffolding coupler
WS 22 4713.022

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

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

U-aluminium deck, adjustable
1.57-2.57 m 3803.000

U-steel deck 45°
3868.101-108

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

U-corner deck
0.36/0.73 m
2630.037/070

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

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

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

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

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

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

U-interchangeable ledger
0.73-3.07 m 2600.073-307

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

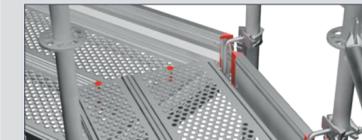
U-Aluminium access deck
0.50 m wide, 2.07 m long
0734.011

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

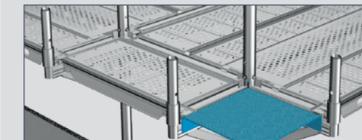
Steel cover plate on steel deck with blue securing screw



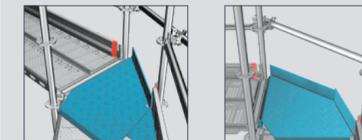
Red securing screw when steel plank is used



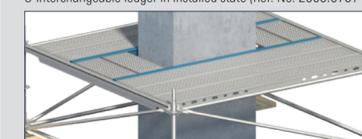
Corner construction on the inside (Ref. No. 2630.037)



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

