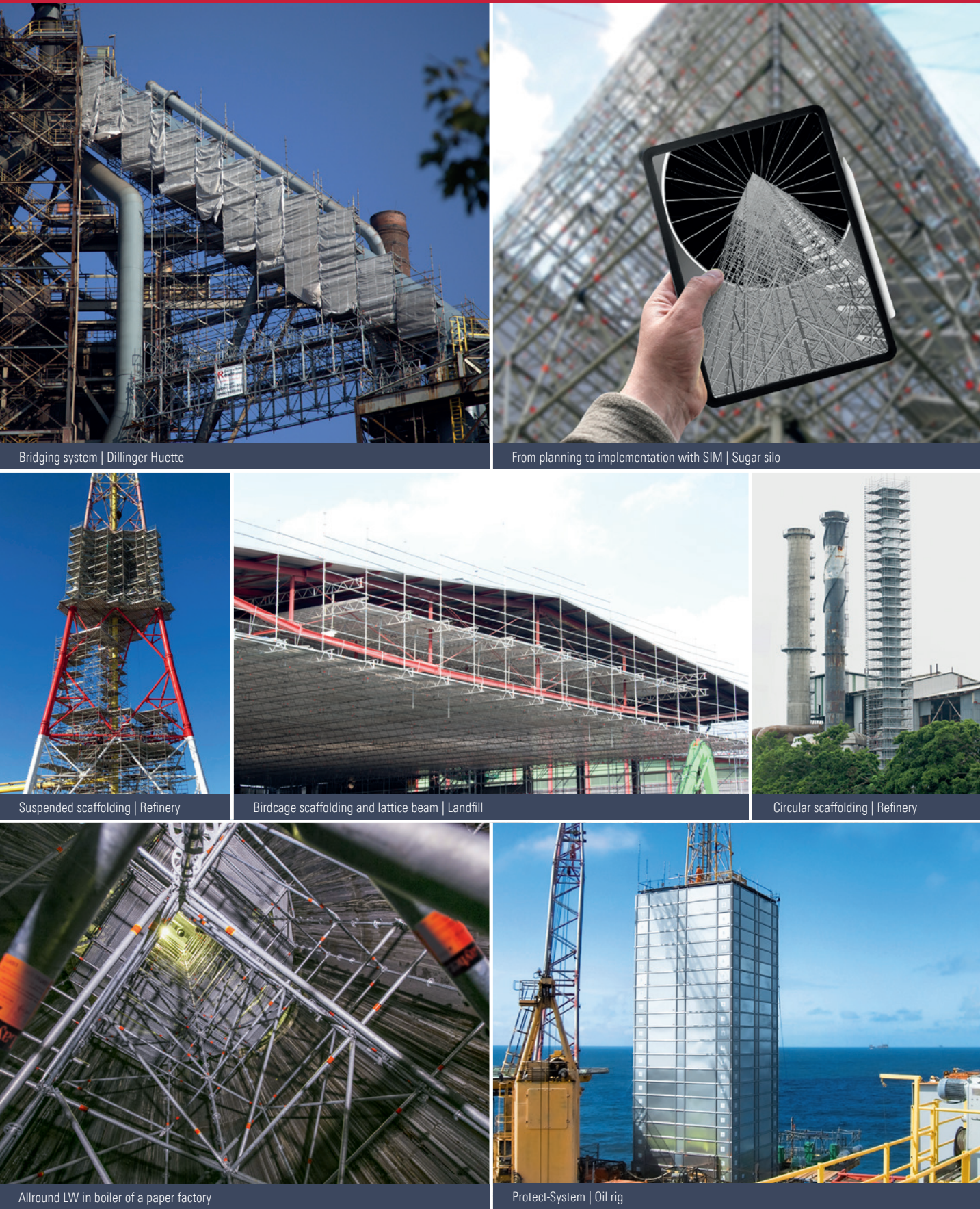
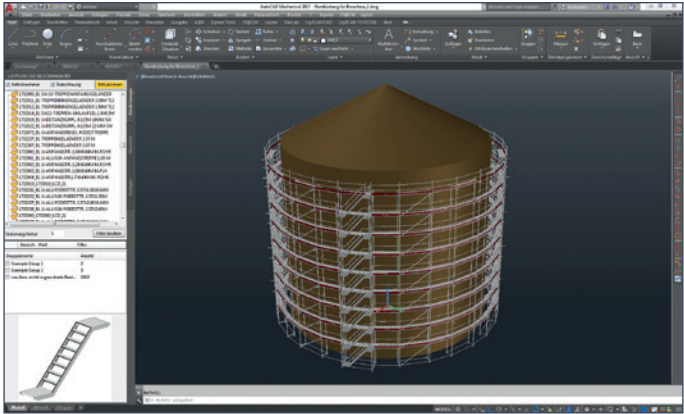


PROVEN IN INDUSTRIAL APPLICATIONS



DIGITAL SCAFFOLDING PLANNING  
SIM | SCAFFOLDING INFORMATION MODELING

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



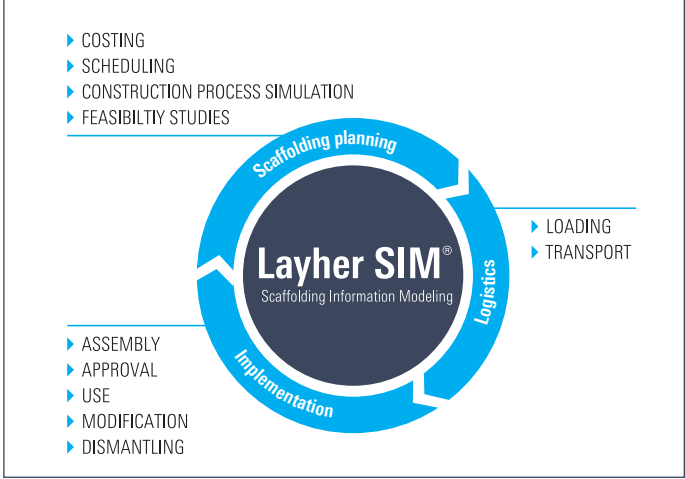
The future in scaffolding construction is digital – and it's name is SIM  
Scaffolding Information Modeling – SIM for short – is a process based on 3D models and designed by Layher to meet the specific requirements of scaffolding construction. SIM not only allows you to plan, assemble and manage temporary 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

Layher  
More Possibilities. The Scaffolding System.

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

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>

Wilhelm Layher GmbH & Co KG  
Scaffolding Grandstands Ladders

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Ref. No. 8116.240

Edition 02/2024

Layher  
More Possibilities. The Scaffolding System.

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



Edition 02/2024  
Ref. No. 8116.240

Quality management  
certified to  
DIN EN ISO 9001

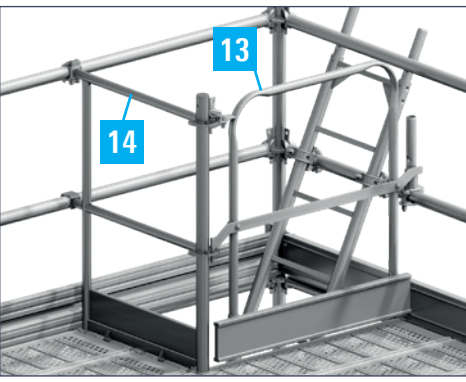
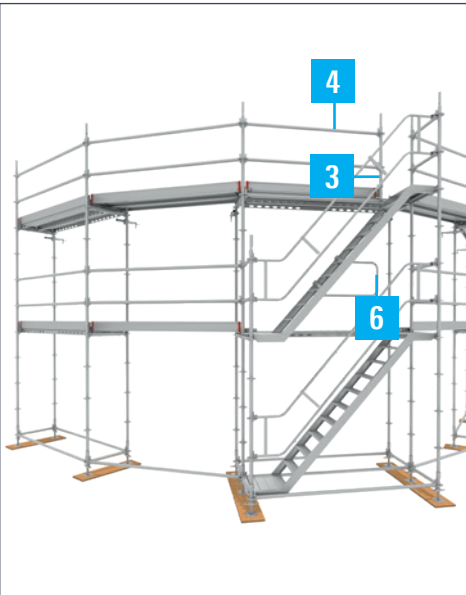
LAYHER ALLROUND SCAFFOLDING®





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

**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

**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

**U-aluminium deck, adjustable**  
1.57–2.57 m 3803.000

**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-ledge**  
Steel deck – O-ledge  
0.32 / 0.64 / 0.96 m  
2614.001 / 002 / 004

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

**U-ledge**  
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