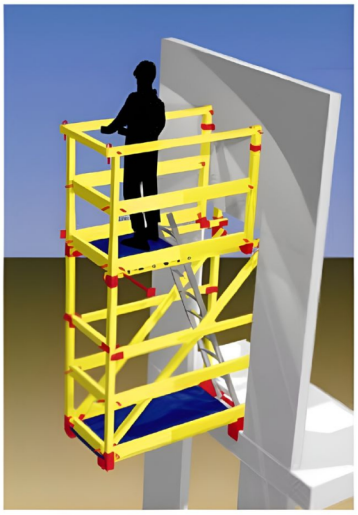
# Stingl – *mobil PANO*

Telescopic work scaffolding made of glass reinforced polyester (GRP), which can be used in various shafts.
Stingl - *mobil PANO* can be installed at any shaft door opening independent of the number of landings. The areas of application range from panoramic lifts to all those lifts where the shaft walls cannot be used as fixing ground for platforms.
Stingl - *mobil PANO* is the perfect tool for installation of **machine roomless lifts** with machinery located in the shaft head as well as for **service and repair work** on existing units.

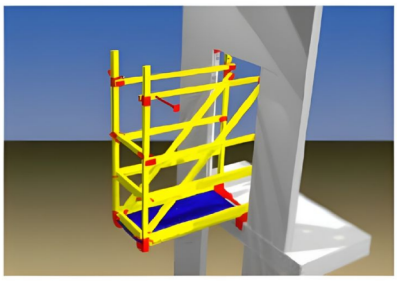


## Work scaffolding made of GRP

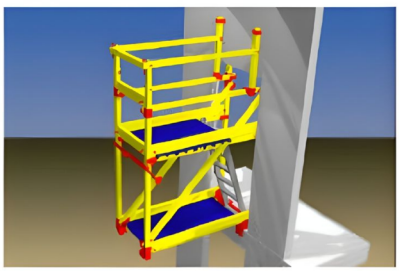
Unlike the conventional, static working platforms, Stingl - *mobil PANO* is designed for multiple use in shafts with **depths ranging from 1000mm to 2000mm** (in 250mm steps). The scaffolding is designed for a working load of max. 3 kN/m². It does not require a substructure. The following scaffolding widths (working area) are available: 700 mm and 1000 mm. Due to the favourable properties of GRP as well as an intelligent lightweight construction, installation can be performed by **one** trained person (e.g. elevator fitters).

## Variants

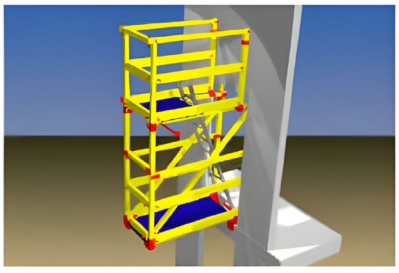
Variant 1
Scaffolding made of GRP with **one** working level incl. lateral fall protection devices according to DIN 4420. The perfect configuration for modernisation and maintenance work like drive change, rope change, rescue or loosening brakes.



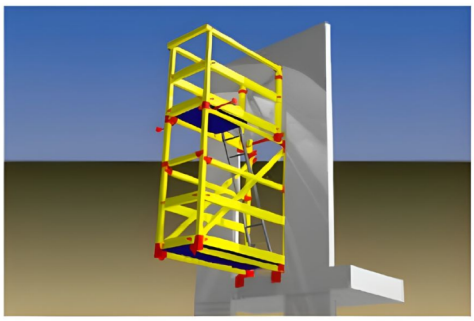
Variant 2
Scaffolding made of GRP with **one** elevated working level incl. lateral fall protection devices according to DIN 4420. The working level is reached by means of an access ladder. This variant allows safe working for example in 2,70m to 3,20m high shaft heads of machine roomless lifts.

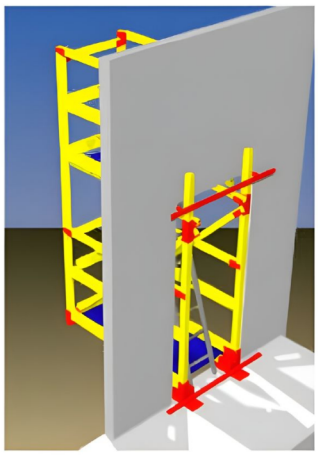


Variant 3
Scaffolding made of GRP with **two** working levels incl. lateral fall protection devices according to DIN 4420. The upper scaffolding level can be accessed over a rung ladder. This variant allows safe working for example in 3,40m to 3,90m high shaft heads of machine roomless lifts.



## Benefits





- A **GS-seal** (certificate no. 02121) awarded by the German employers' liability insurance association guarantees a safe and approved solution.
- The platform can be used in shafts **without rear wall** (e.g. panoramic lifts, open through lifts).
- The requirement of **one-man-assembly** is met by the moderate weight of the scaffold elements (the heaviest subassembly weighs approx. 31 kg).
- **No dependence on third parties** for scaffolding erection and thus administrative savings.
- **Considerable savings** compared with conventional wooden scaffolds as the mobile scaffold can be used again.
- Since no substructures are required, the mobile scaffold can be installed **quickly**; it is also **flexible in use** and thus **highly economical**.
- The **modular design** allows the assembly of a single or bi-level mobile scaffolding.
- Defined material properties of GRP, such as high loading capacity, high impact strength, long service life, **low weight**, high corrosion resistance as well as electrical insulation are the advantages of GRP over conventional materials such as wood, steel or aluminium.
- **Low installation time** of approx. 50 minutes by trained personnel.

## Requirements for the installation of Stingl *mobil PANO*

- Shaft depths of min. 1000mm.
- Working load per unit area of max. 300 kg/m² (scaffolding class 4 in accordance with DIN 4420-1).
- The vertical wall with shaft door opening must be made of reinforced concrete (German grade = B25 or higher) with a minimum thickness of 100mm or similar strong material.
- The vertical scaffolding pillars must surpass the opening by minimum 100mm.
- The horizontal traverses must surpass the opening on the left and right side by minimum 100mm.
- Before walking on the upper platform level (variants 2 and 3) at least two spacers must be installed according to the mounting instructions. The spacers can be stretched against surrounding shaft walls, guide rails or steel supports. If the spacers are stretched between the scaffolding and lift guide rails the appropriate adapters have to be used (available upon request).
- It must be ensured that the spacers are positioned in a 90° angle towards the scaffolding. The distance between the exterior measures of the scaffolding and the shaft wall mustn't be greater than 1000mm.
- Following maximum shaft widths must be obeyed when using the scaffolding:
  Platform width 600mm: max. shaft width 2700mm
  Platform width 700mm: max. shaft width 2800mm
  Platform width 1000mm: max. shaft width 3100mm.
- Platform width 600mm requires an opening width of min. 700mm
  Platform width 700mm requires an opening width of min. 800mm
  Platform width 1000mm requires an opening width of min. 1100mm.
- During platform installation fitters must secure themselves with a fall arrester and full body harness, attached outside of the lift shaft to a suitable EN 795 compliant sling point.

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