Layher

More Possibilities. The Scaffolding System.

LAYHER INFO

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Information about products and technology for clients and partners

Aluminium FlexBeam for cantilever construction

Assembling suspended surface scaffolding from a secured level.

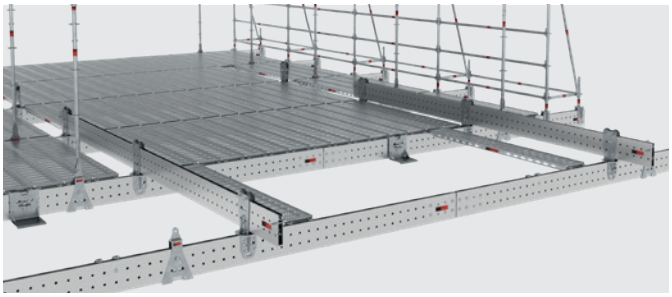
Using the cantilever method for the FlexBeam aluminium U-beam, U-FlexBeams can be used to assemble surface scaffolding underneath a bridge – incrementally, quickly, without improvisation and more safely too. To do so, only three components are needed as tools – the roller unit, the receiving bracket and the fitting retainer.

The roller unit is used for moving the beam. The FlexBeam aluminium U-beam is placed onto the receiving bracket, and the fitting retainer secures the positioned beam. The basis for the cantilevered structure is formed by an already suspended scaffolding.

Learn more on YouTube
yt-flexbeam-cantilever.layher.com

The benefits for you

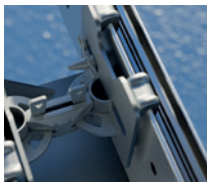
- Assembly and dismantling using the cantilever method are quicker, easier and safer
- Safer cantilevered construction for U-FlexBeams can be achieved with just three supplementary parts
- Assembly is done without tools, as the beams are only pinned in place
- Cantilevered construction is completely feasible using standard FlexBeams



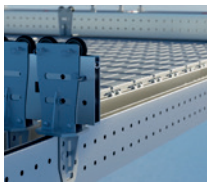
Assembly steps

Step 1: Fit the receiving bracket to the frontmost Flex-Beam. Then fasten the front and rear roller units of the longitudinal beams to the already assembled U-Flex-Beams with a spacing appropriate for high structural strength. After that, insert the longitudinal beams into the roller unit.

Step 2: Place the transverse U-Flex-Beams, with pre-fitted suspension shoes, onto the receiving brackets and secure them. Opposite the receiving bracket, hook in the fitting retainer and connect it to the receiving bracket by means of a double wedge head coupler. The wedges are only inserted here, not hammered in.

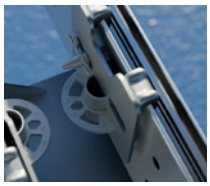


Step 3: Fit the roller unit to the transverse beam positioned at the front. Push out the longitudinal beams a very short way and secure them with pins as stops.

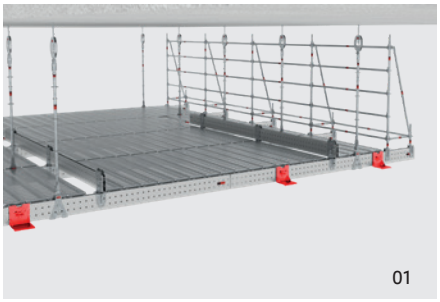


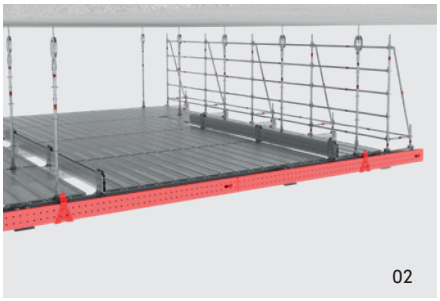
Step 4: Push the longitudinally extending U-FlexBeam one bay forwards. The beam is also secured at the rear with a pin as the stop.

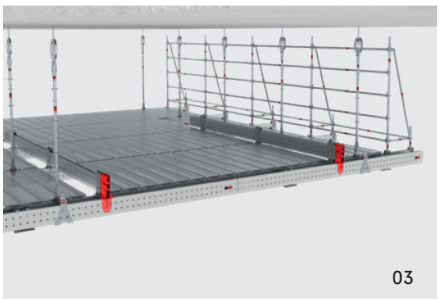
Step 5: Undo the double wedge head coupler, remove the fitting retainer and push the transverse beam section one bay in the construction direction using decks.

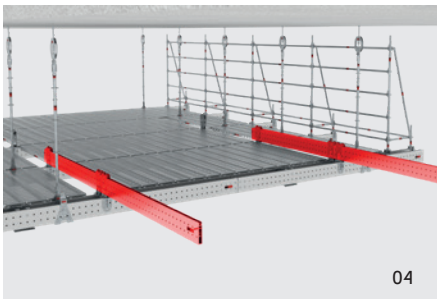


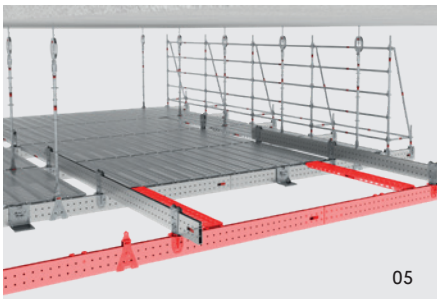
Step 6: Lay out decks and fit the suspension parts.

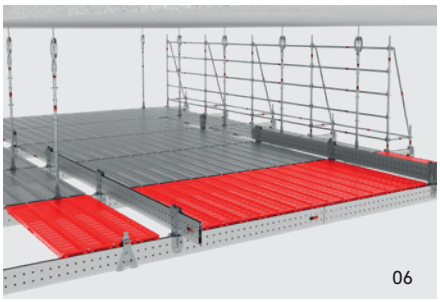












Repeat these steps bay by bay. Reposition the rearmost roller unit onto the frontmost transverse beam (see step 3). Secure all components with a pin.

1

2

3

Pos.	Description	Weight approx. [kg]	PU [pcs.]	Ref. No.
1	**Roller unit for U-FlexBeam** for cantilever method	13.4	25	2657.190
2	**Receiving bracket for U-FlexBeam** for cantilever method	10.3	50	2657.191
3	**Fitting retainer for U-FlexBeam** for cantilever method	3.4	250	2657.192

PU = packaging unit available ex plant warehouse

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