

Remarks on the dismantling of solid, slab and hollow slab ceilings in site concrete

The VELOX system is available with 2 different kinds of prop, as shown in the following graphics: the type of prop with a high maximum load capacity (30 kN) can be used once for the most diverse applications. On the other hand, prop with low maximum load capacities (6 kN) can also be used, particularly for non-solid ceilings of low weight (approx. 4.00 kN/m²).

Where supports are used with a

permissible pressure loading of 6 kN, the 1.50m x 2.00m formwork grid is used, with the installation of a total of 6 prop for each formwork area: one in each of the 4 corners and 2 in the centre of the longer side of the formwork element.

The central props must be shifted during dismantling of the formwork to permit the removal of the props used as bolsters.

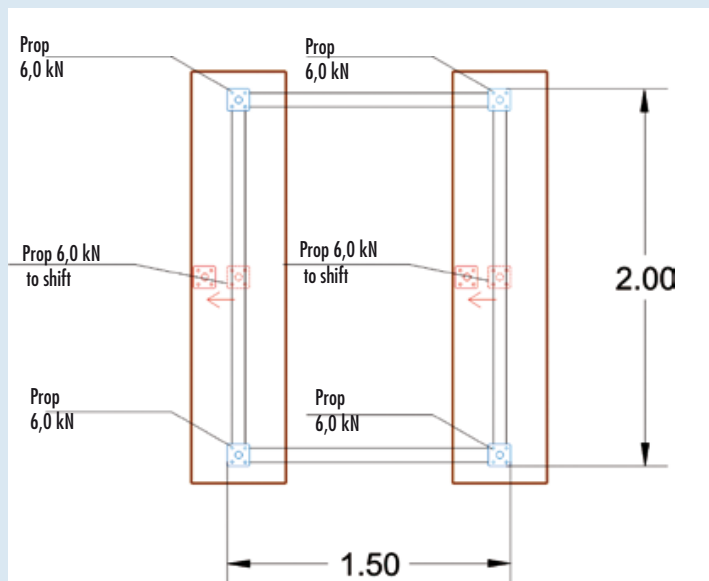
Begin by shifting the additional

props, ensuring that the support head rests against the formwork – which is NOT to be removed – and disassembly of the formwork system can afterwards be commenced.

The formwork element directly under the props is not removed in this case. This distributes the loads of the prop heads which have a supporting area of 4x4cm.

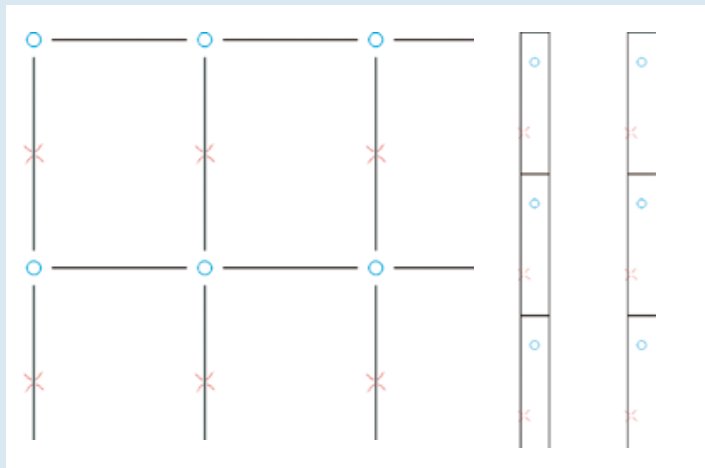
Mixed ceilings with a max. weight of 4.00 kN/m²

In formwork systems using supports with a permissible pressure loading of 6.0 kN, the central props are first shifted to facilitate the disassembly work on the other horizontal elements.



Grid graphics

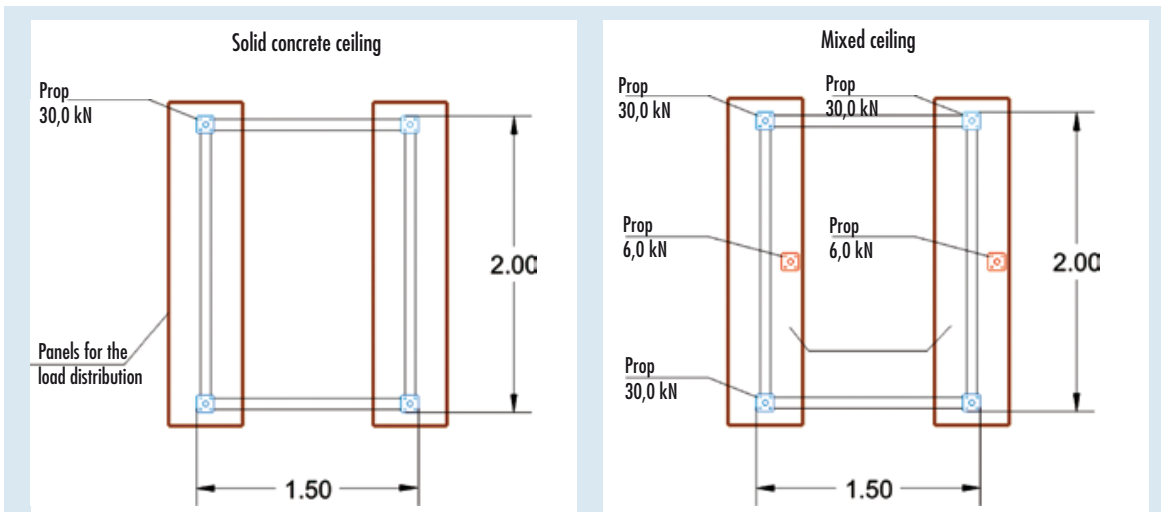
Formwork system with several panels and props with a permissible pressure loading of 6.0 kN. On the right are the slabs that are not to be removed. The crosses indicate the 6.0 kN props that must be shifted.



If however props with a high load capacity (30.0 kN) are used, these are only attached to the ends of the primary girders and no further work is required to remove them.

For mixed ceilings (see graphic 3), 6.0 kN props must be positioned in the centre under the formwork in order to distribute loads in the event of partial dismantling.

The site manager's directions must be observed during partial disassembly.



Solid ceilings or "mixed ceilings" with a max. weight of 10 kN/m²

For props with a high permissible pressure loading (30.0 kN), the 1.5 x 2.0 m grid remains the same and the load distribution slabs and supports remain in place. In the example on the left (solid ceiling), one prop in each of the 4 corners is sufficient, while in the example on the right (mixed ceiling), in accordance with the state of the art, 2 additional props (each 6kN) are placed in the centre of the slabs in order to bear the loads.

Types of application

The INTERFAMA VELOX slab formwork system can be inserted into solid ceilings and also lighter

ceilings; i.e. in all cases where it is necessary to optimise realisation times while ensuring the high quality

of the surface treatment.