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New aluminium formwork for precast concrete element production

Increasing demands on formwork and plant technology in the production of precast concrete elements also entail additional occupational health and safety guidelines for employers. Especially when doing the shuttering by hand, the use of cranes is often indispensable in order to move within the regulations when handling loads. However, handling the crane is relatively time-consuming and thus delays production. To solve this problem, BT innovation has further developed its patented MultiForm formwork system.

MultiForm Alu

The new MultiForm Alu is a lightweight, yet dimensionally stable and robust formwork beam made of specially coated aluminium. Due to the reduced dead weight, the MultiForm Alu, even with mounted formwork timber, weighs less than half that of other support systems. In this way, the MultiForm Alu not only ensures conformity with the German load handling regulations for all shuttering heights, but also significantly reduces the amount of work involved in shuttering and demoulding. Even with larger shuttering heights from 40 cm, the formwork can be assembled, dismantled and transported by

hand by one employee, due to its low dead weight. As with any MultiForm formwork, the shuttering height can be adjusted at any time by using a different formwork skin. In combination with the patented MagFly® magnet, the MultiForm Alu can be easily moved and precisely positioned on the steel surface. The additional and usually laborious sealing, e.g. with silicones or other sealants, is not necessary.

Health relief

In addition to the simplified transport by hand and the associated elimination of crane and lifting equipment, the focus is above all on relieving the impact on the employees' health. Repeated, highly demanding physical work, especially lifting heavy loads at the workplace, often has a negative effect on the employee's health. The employee's performance decreases and acute back pain often causes long-term complaints, including sick leave. Reducing the impact can counteract such effects at an early stage and thus represents an adaptation to an ageing workforce. It has a positive effect on sick leave and plays a central role in company health management.



The MultiForm Alu in normal design with 198 mm formwork height and as a special solution in 45° angled design.

MultiForm Alu is available in three standard sizes, other designs on request



Funding opportunities

By focusing on employee health and improved occupational safety, MultiForm Alu qualifies for various national funding programmes depending on the country. ■



Watch a video about the new MultiForm Alu formwork beam.



FURTHER INFORMATION



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