

TopDalle Eco Formwork

Based on more than 20 years of expertise, ALPHI has developed TopDalle Eco, a new formwork product line for reinforced concrete slabs. The TopDalle Eco system slab formwork combines safety and ecology. TopDalle Eco system is polyvalent and meets the requirements of all types of construction: offices, residential, retirement homes, hospitals and prisons. TopDalle Eco improves safety, working conditions and environmental factors.

The TopDalle Eco aluminium alloy modular formwork system comprises three new elements: the Eco+ panel, the extendable primary beam and the angular secondary beam. For greater safety, the Eco+ panel enables slab formwork to be constructed that offers characteristics of a solid panel working platform — limiting the risk of tripping, slipping, falling from height or falling objects.

TopDalle Eco is simple and quick to install, providing productivity of 30 m²/man/ day, at a height of 2.50 m. The grooved extendable primary beam facilitates layout design and limits the number of different elements on the work site.

TopDalle Eco formwork meets the requirements of the decree of September 2004, relating to falls from height; of standards NF E 85-014 and NF X 35-109, relating to risks of tripping, slipping and falling objects; and to the manual handling of loads.

Environmental factors were considered in the manufacture of the Eco+ panel frame, which is entirely in recycled and recyclable aluminium alloy. Raw material provisioning sources are selected to be as close as possible to our subcontractors, to minimize shipping distances. The panel design also saves 25 percent volume when packaged.

Eco+ panels, when covered with plywood nailed to wooden plugs, allow concrete slabs of more than 60 cm to be poured, while respecting regulatory distortion tolerances. Furthermore, the shape of the frame strip limits the laitance on the vertical wall.

Like all Alphi formwork systems, TopDalle Eco has been granted the “Origine France Garantie” label. All Alphi products are certified compliant with applicable standards by the Savoy University LOCIE laboratory.

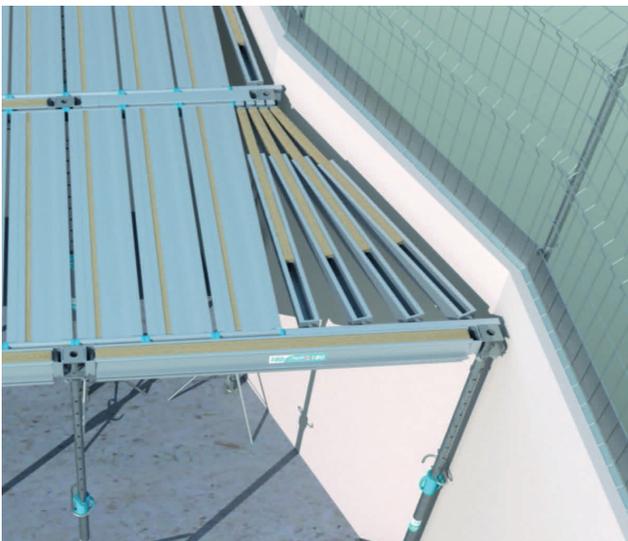
TopDalle Eco is safe, easy to use, more environmentally friendly and long lasting. The exclusive extrusion system gives a one-piece, wide section beam, offering strength and durability. Work, such as manual handling of loads and difficult working positions, is made easier with hand-portable elements that offer a weight saving of 20 percent in relation to currently known solutions, and with more ergonomic operating positions.

The aluminum alloy is easy to repair, simplifying customer support and providing an excellent cost/strength ratio. Workers have a solid surface for better productivity and limited risk for falls from heights, tripping or slipping. The continuous adjustment of the extendable primary beam and the angular secondary beam allow work closer to the edges of the cell.

The extendable primary beam reduces the number of products in the range and increases productivity. The shape of the Eco+ panel limits the laitance on the vertical wall. Plastic end plugs absorb impacts and improve productivity through simpler recognition of various beam models. TopDalle Eco is protected by a patented resin that limits the risk of theft.

TopDalle Eco provides a safe working zone, exceeding the requirements of decree 2004-924 and compliant with the work platforms standard. Easier working, due to the adjoining Eco+ panels. Colour-coded end plugs identify the beam lengths. A solid working surface and multi-support zones enhance stability, with the extendable beam allowing continuous support contact and a stable angular beam.

TopDalle Eco won a silver 2015 Innovation Award from INTERMAT.



1
ATTENTION : enclencher les primaires sur les grandes oreilles du support technique
 - À partir d'un angle de la pièce, mise en place d'une poutrelle primaire sur 2 supports techniques (ST) stabilisés par des trépieds.
 - Mettre en place une seconde poutrelle primaire sur 2 ST stabilisés par des trépieds.
 - Utilisation de plate-forme individuelle roulante conforme à la réglementation (PRL).
 → Se référer au plan de coffrage.



5
 - Mise en place d'une poutrelle primaire sur ST stabilisé par un trépied.



2
 - Mise en place des panneaux Eco+ à l'aide de la Top Perche.
 → Respecter le plan de coffrage.



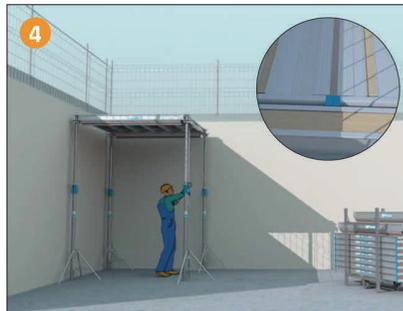
6
 - Le poseur se sert de l'étau pour placer la poutrelle primaire.



3
 Commencer la pose d'un panneau Eco+ :
 - le poseur soulève le panneau entre les 2 poutrelles primaires puis redescend la Top Perche en veillant à ce que les embouts du panneau soient bien enclenchés sur les primaires.



7
 - Reprendre la mise en place des panneaux Eco+ comme indiqué à l'étape 4.



4
 - Mettre en place les panneaux Eco+ de proche en proche à l'aide de la Top Perche.
 - Placer les panneaux accolés.



8
 - Terminer la mise en place des panneaux Eco+.

