

Alumecano



ISO 9001

BUREAU VERITAS
Certification

Nº 7002938



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PATENTED

ALUMECANO

The perfect combination between steel and duralumin

Re-usable formwork system for making waffle slabs with permanent coffer, one-way concrete beams and solid slabs.

Alumecano only uses 3 basic components (Girder, Support Girder and Drop head) including the revolutionary new Drop head made of duralumin (structural aluminum), which makes it light and resistant for the support of the formwork surface.

Alumecano includes accessories for its assembly, such as:

- Alisan tripod.
- Mecano Safety Railing.
- Europrop A3 or Alisan Post-shore.
- Side-shutter.
- Alisan range of panels.
- Alsipercha (Alsin Fall Prevention System).



Document of Technical Suitability granted by the Eduardo Torroja Institute for Construction Science of the CSIC to the Formwork System **ALUMECANO-ALUCUBETAS**, Madrid May 30 2005, with number 466.



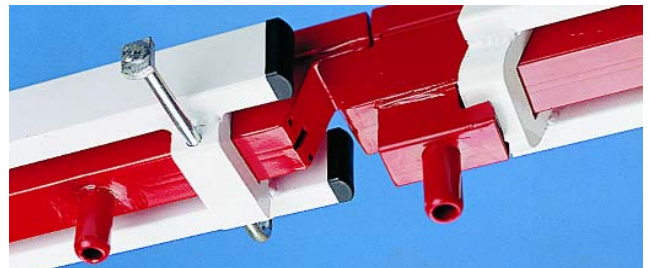
► Light, fast and resistant



LIGHT WEIGHT: Approximately 50 % less than similar systems on the market

ONLY 3 COMPONENTS: Girder, Support Girder and Drop head.

SEMI-RIGID JOINING OF THE ELEMENTS: facilitating the erecting and stripping of the floor.



DURALUMIN: Drop head made with structural aluminum alloy for resistance and lightness

FINISH QUALITY: structural components made of high resistance and painted steel.

INTELLIGENT DESIGN: elements with closed ends to protect them from concrete debris.



DROP HEAD WITH WOOD FOR NAILING: supports the 4 cm board and allows nailing and nail removal and prevent the movement of the board.

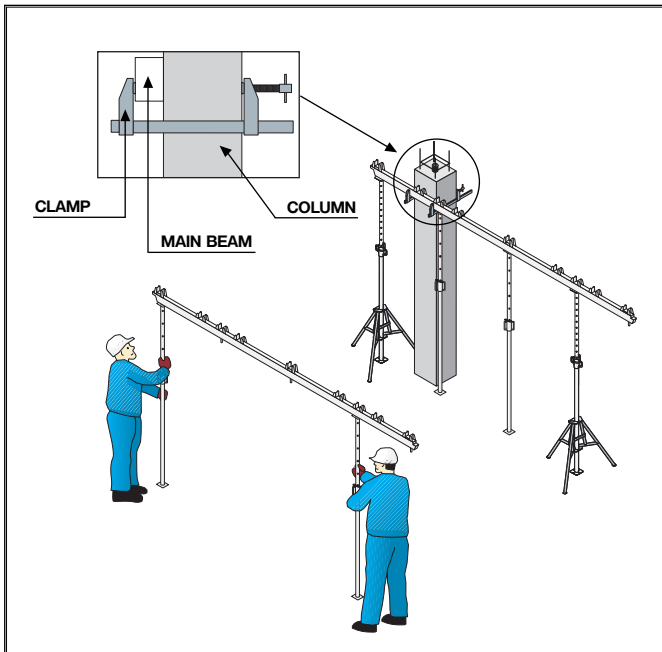
DROP HEAD WITH DOUBLE SUPPORT: it does not depend on dangerous welds subjected to traction.



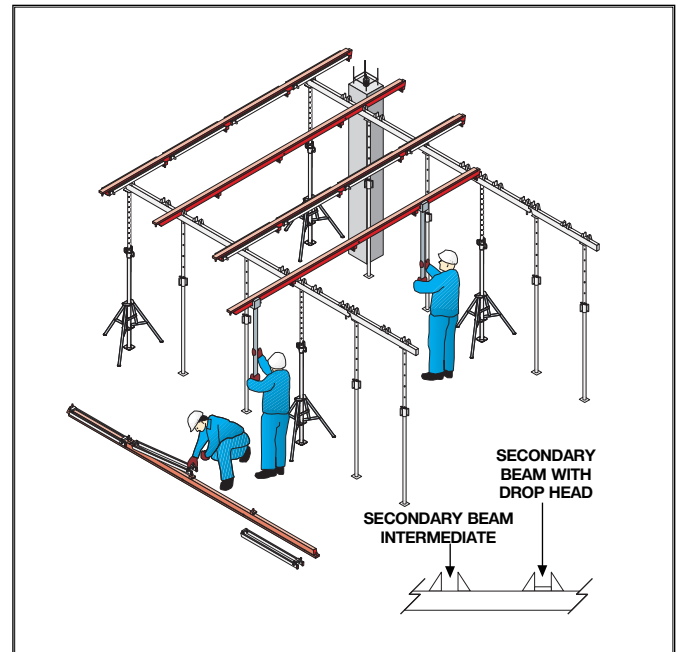
IT IS UNNECESSARY TO REPOSITION THE POST-SHORES
The system allows for 80% of the equipment to be recovered 3 days after pouring concrete, without need for re-propping.
LESS TOP PLATES AND BETTER MEETING WITH COLUMNS: Work with corridors of 2 meters.

Assembly of the Alumecano System

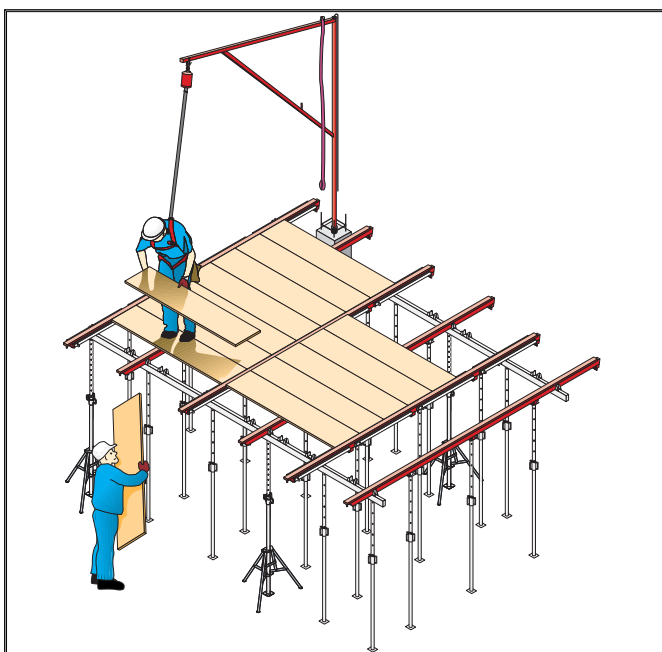
01 Positioning of the Support girders, the Post-shores and the Tripods.



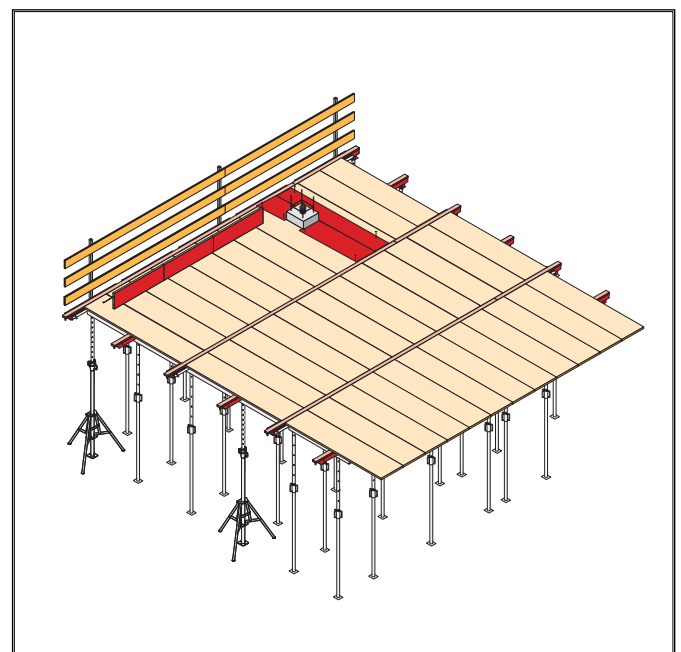
02 Positioning of the Drops Heads in the Girders and of the Girders on the Support girders.



03 Positioning of the Boards (*)



04 Positioning of the finishing plates and cantilevers, the Mecano Safety Railing and the Side Shutter (*)

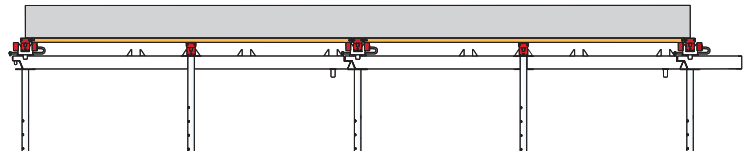


(*) For work at heights, follow the current standard in the area. Alsina recommends the use of the Alsipercha Fall Arrester System, although other procedures are not ruled out.

Removal of the Alumecono System

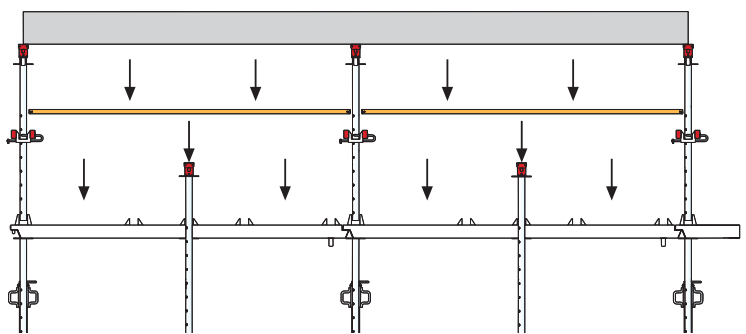
first phase

The floor is formed and the concrete stays 3 days curing. At this time you can start stripping the formwork.



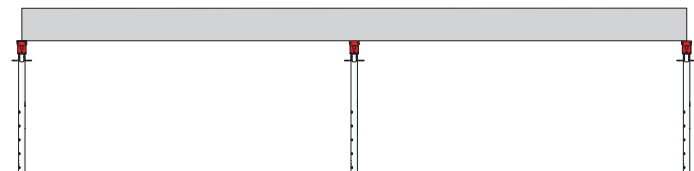
second phase

Three days after pouring concrete, 80% of the material used for the first floor can be recovered. The Support Girders, the intermediate Girders with their respective Post-shores, the Drop Heads and the Panels.



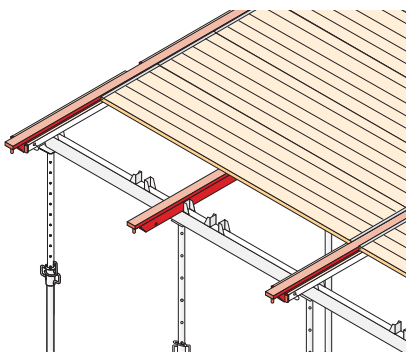
third phase

Only one Girder is left every two meters until the 21 or 28 days in which the concrete reaches its proper strength and it is not necessary to re-shore the floor.



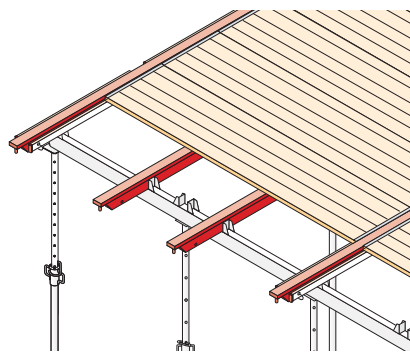
1 intermediate beam

The Alumecono System with an intermediate Girder allows the pouring of solid slabs up to 25 cm thick.



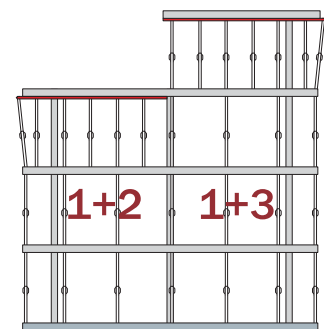
2 intermediates beams

The standard Support Girders of the Alumecono System are ready for the positioning of two intermediate Girders, necessary in solid slabs of 25 cm or more.



concept of 1+2 and 1+3

The concept of complete floor + propped floor is related to the removing and reusing 80% of the equipment three days after pouring concrete. The 20% remaining must stay propped until the 21 or 28 days have passed. See the annex report carried out by Alsitac in the section "Technical Documentation".

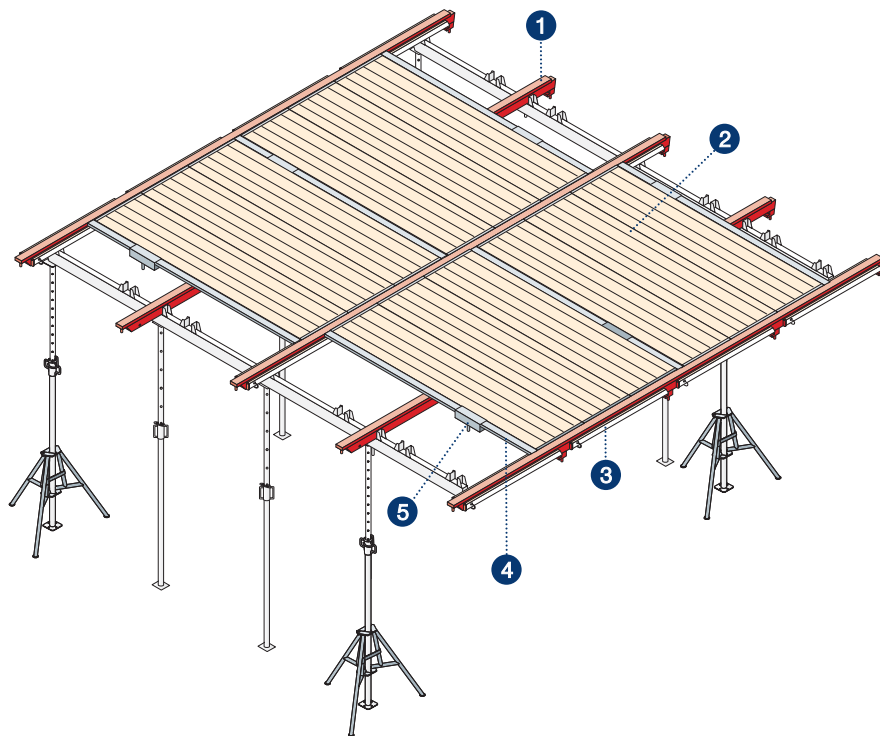


Alumecano with supports

The Alumecano System is used with supports of 1.97 m; it is the only system that allows the secondary beaming in two directions.

It is a good solution for those one-way slabs with master or primary beams in both directions.

- 1.- ALUMECANO GIRDER
- 2.- 197 x 50 x 27 cm ALISAN BOARD
- 3.- GIRDER WITH DROP HEADS
- 4.- MOVABLE SUPPORT BODY
- 5.- MOVABLE SUPPORT PART



semi-rigid joint

The joining of the Girders and the Support Girders is semi-rigid, which helps in the assembly of the system and its later removal.



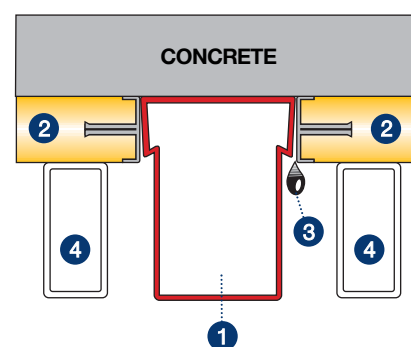
double-supported drop head

Our Drop Heads works always supported on 2 sides: a Post-shore on one side and a perforated Girder by the pin of the Drop Head on the other.



girders in T-shape

The design of the Girder in "T" shape (1) facilitates the removal of the board (2) and helps prevent the grout (3) of the concrete from falling inside the Beam.



(4) DROP-HEAD

Applications of the Alumecono System

