

Ecomecano



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ECOMECCANO: bidirectional decking system



characteristics of the system ▼

► Secure support



LARGE SURFACE AREA OF SUPPORT

The Ecomecano system uses the same Main Girders as the Alucubetas waffle slab system, providing a 4 cm surface area of support for the panels, far more than other similar systems.

► Simple assembly



FOUR COMPONENTS

The Ecomecano System uses the Support Girder, the Beam Support, the Central Girder, and the Winged Girder.

Assembly is simple, and the material recovery process begins 6 days after concreting, leaving supports in both directions only in the essential parts of the formwork.

The panelling system with repropping supports

A formwork system, reusable on the build, for flat beam formwork comprising of a steel framework, and a timber panel formwork surface. Ecomecano is suitable for all types of horizontal formwork.

The Ecomecano system is assembled using the following accessories:

- Alisan Tripod
- Alisan Prop (1 to 6 m heights)
- The Alisan Panel Range
- Mecano Safety Rail
- Column Base Finishing Plates
- Alisan Skirting
- Alsina Fall Prevention System

► Component quality



As opposed to other similar products on the market, and despite the ease with which it is assembled, Alsina's Ecomecano Decking System produces a high quality concrete finish.

- Components coated in polyester based paint
- Semi-rigid joining of the Main Girders
- Smart design of the Main Girders
- The ends of the components are sealed preventing entry of residual concrete
- High quality steel: resistant and light
- Compatible with the 2 m and 3 m Support Girders.

► Component recovery after 6 days

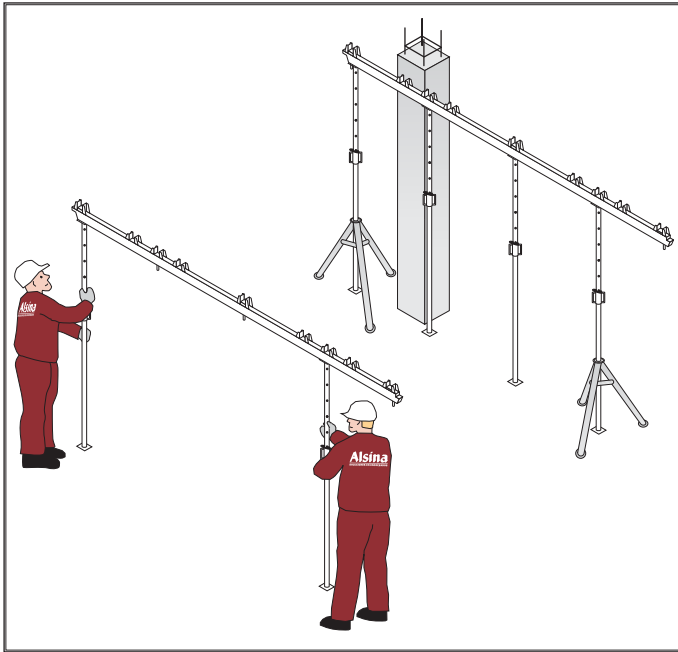


The Ecomecano System uses similar components to the Alumecono Decking System, although because the component recovery is after 6 days instead of 3, its application is recommended on smaller builds where there is less importance on material cost.

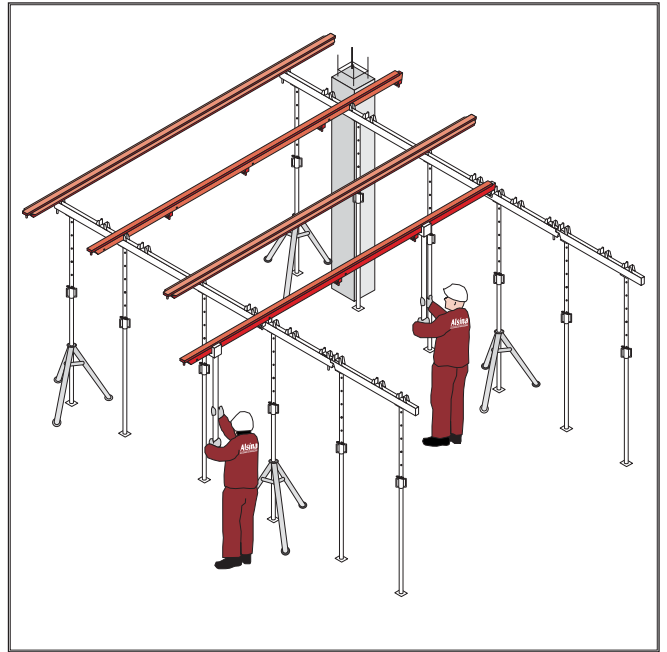
See the report by the University Polytechnic of Valencia (UPV) in the section "Alsitec informs".

Assembly of the Ecomecano System

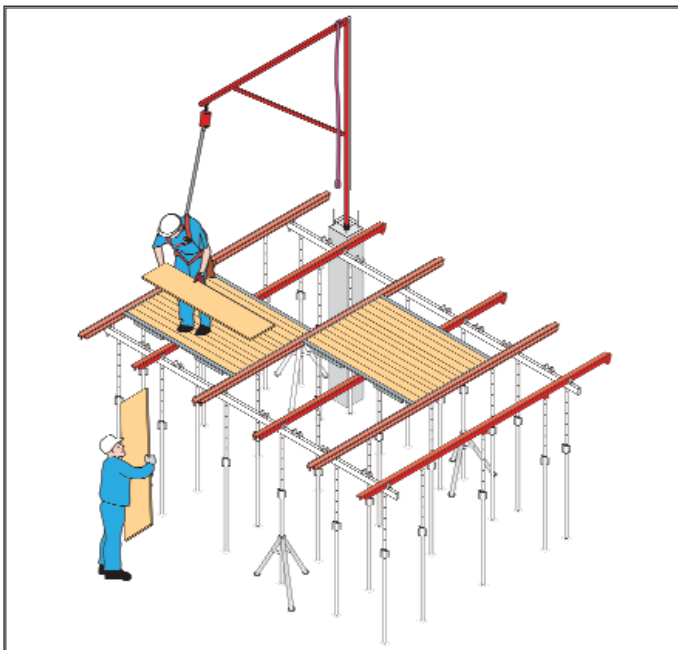
01 Placement of the Support Girders, Props, and Tripods



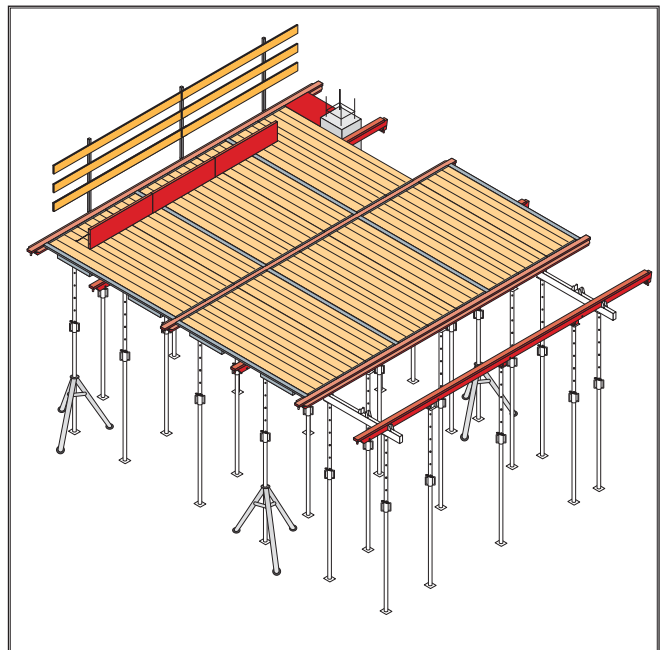
02 Placement of the Winged Girders and the Central Support Girders



03 Placement of the Panels and the Beam Support (*)



04 Placement of the finishing plates and the Alisan Skirting (*)



(*) For builds at height the existing safety regulations will be followed. Alsina recommends using the Fall Prevention System, but doesn't rule out alternative products.

Ecomecano System Form Release

components recovery

As with all the formwork systems that use supports, the form release process is complex. It can be done in the following ways: (see the Alistec (UPV) report in the "Alsittec Informs" section).

option one

Recovery of the Main Girders and Panels after 6 days, and repropping of the Beam supports.

option two

Recovery of the Main Girders and Panels after 3 days, with Props directly shoring up the Beam Supports (this requires double the number of props).

option three

See the report on the special conditions required for component recovery after 3 days, and repropping of the beam supports, under the supervision of a specialist technician.

