Alsina Mission

“To offer Solutions for Concrete Structures that help our customers improve efficiency and safety in their projects, through a committed service and proximity in the global market by innovating and investing in our workers as a key component of the business.”

Alsina works under the quality standard ISO 9001:2008 certification. The scope covers the activities of: sales, renting and maintenance of formwork equipment, including the design, the manufacture, the assembly and the commercialization of our systems.

Engineering

In Alsina we bet strongly to invest in R&D in order to add value to the industry. The Alsina engineering department has created more than 100 patents and utility models. Which have enabled the concrete structures’ implementation industrialization process “in situ”, in addition to providing added value in security and ergonomics.

AlsiTec

We offer on site consultation and safety tips to help our customers working safely and improving productivity in each project. The Alsina Technical Office combines its staff experience with advanced CAD systems and self developed software to do this job.
Reference in housing
One of the biggest keys to the company expansion in the recent years is the export of new building systems that have proven effective for over 40 years in Spain. Mecanoconcept: a mechanized slab formwork system that effectively enables saving time in construction process. Nowadays Alsina is working to introduce the Mecanoconcept system worldwide.

Civil engineering
The Alsina Group has a active presence in Civil Works and transportation projects. The construction of roads, bridges, underpasses, overpasses, tunnels in a mine, etc. Also in Industrial Engineering (energy processing plants, processing plants, etc.). On Maritime Engineering (construction of ports, dikes, dams, etc.), we have an agreement with the firm Rúbrica as a partner.

Hydraulic Projects
Alsina is the leading company in supplying formwork systems for the implementation of water projects. More than 500-implemented projects in the recent years support our ability to do this type of project: desalination, water treatment plants, reservoirs, etc. We also offer engineering and calculation processes in order to optimize our range of formwork systems.

Service
Alsina’s started his activity in Spain. The current worldwide branches includes presence in USA, Chile, Italia, Portugal, Morocco, Romania, Poland, Uruguay, Panama, Peru, Colombia, Paraguay, Mexico, France, India and Australia.

To get the full addresses and phone contacts of Alsina Worldwide Branches, visit our website: www.alsina.com
Alumecano

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.

Alucubetas

Recoverable formwork system for making two-way slabs with reusable injected polypropylene domes. Alucubetas uses basically the same components as the Alumecano system, in addition to the special components for being able to use the different ribs on the market and satisfying the current fire standards.
Alumecano Plywood

Alumecano Plywood is a totally “mechanized” decking system that uses only 3 basic elements: Support Girder, Main Girder and Drophead. The design of its elements optimises to the maximum its dimensions and materials for a more rational and effective use. Design that also facilitates the assembly as well, contributing efficiency in the stages of work. Alumecano Plywood stands out as well by its lightness and resistance that allows a longer use and better handling for the workers.

Aluflex

Novel slab with wood beam formwork system, including machined elements to increase productivity in this type of systems. The Aluflex System only uses three basic items (Aluminium girder with multiple joist location, HT-20 wood beam and beam support TC) With these three elements and a work method that has been used by the Alsina clients for more than 30 years, Aluflex is the ideal solution for making concrete forged items economically, for any type of perimeter.
Mecanoflex

Formwork system for forged components. The Mecanoflex system only uses two basic elements (Multiple U-shape joist bearer and Joist inlaid with wood). With these two elements and a work method that has been used by the Alsina clients for more than 30 years, Mecanoflex is the ideal solution for making concrete forged items economically, for any type of perimeter.

Multiform Table

Preassembled system for slabs, especially indicated in large-scale projects and surfaces with regular geometry. Multiform Table allows to implement all types of slabs although it is especially designed for solid slabs. The system offers systematic assembly, resulting in quick and safe form removal and the use of fewer spare parts. Multiform Table can be assembled on site in every size.
Alsina presents its formwork for Modular Hanging Beams. Another solution for safe, profitable and reusable slab formwork. VCM has been designed to revolutionize beam formwork; easily combined, reusable and above all quick-to-assemble are some of the characteristics of this new system.

**Modular Hanging Beam VCM**

Traditional formwork system for exposed slabs composed of structural wood beams, supported by support elements such as the Alisan Post-shore or the Alisan Scaffolding System. Both shoring systems are height adjustable. The Vistaform Slab System allows the distribution of the beams and the shoring in accordance with the weight of the slab to form. It also facilitates the meeting with walls and hanging joists with the ability to overlap the wood beams with each other.

**Vistaform**
G40 / G35 / G30
Post-shores

The Alsina Europrop G post-shores are post-shores with an extension device according to the standard EN 1065 with integrated safety system. They serve as vertical post-shores for temporary structures. Also, they come with a quick release system, which reduces their removal time.

A30 / A35 / A40
Post-shore

The new generation of Class A post-shore with quick release and integrated safety system. Alsina, true to its commitment to research, developed a post-shore, the A30, which brings new and significant technological improvements to the market—all of this in a post-shore weighing only 26.4 pounds (12 Kg). The Alsina Europrop-A30 has been designed and manufactured in compliance with the EN 1065 European standard and certified by the prestigious Sigma Karlsruhe Institute in Germany.
Alsina has a range of telescopic post-shores with measurements between 4’-11” and 19’-8 1/4” (1.5 and 6 meters) that can be used with all the formwork systems, whether from Alsina or other manufacturers.

The A-lite Post-shore is Alsina’s new telescopic shoring system. It is made of aluminium and is both lightweight and strong. The A-lite Post-shore can be used as an independent support post-shore, or as part of a loading tower. The so-called bracing frame accessory has been designed to brace the A-Lite post-shores, and safely and quickly assemble independent loading towers.
CL-40 Shoring system

A multidirectional support structure for slab formwork. The system features light weight, easy component assembly and bearing capacity of up to 8992 lbf (40 kN) per support, making it an extremely useful element for the support of slab formwork, whether by means of independent towers or fixed scaffolding, depending on application requirements. The system is based on a scaffold with multidirectional connections used by a vast number of construction professionals.

AR-80 Shoring system

AR-80 Shoring System is a support structure for slab formwork. Its most outstanding feature is its high bearing capacity: 17984 lbf (80 kN) per support. It is based on a scaffolding system with multidirectional connections. Easy to assemble and used by a vast number of construction professionals, it provides support for both independent towers and fixed scaffolding, depending on application requirements.
Site stairway
Safe access to enter the formwork surface or between the concrete floors. Alsina's Site Stairway is a moveable and folding stairway made of steel. By changing the angle of this stairway, it is possible to reach different heights (up to a maximum of 14’-1 1/4” (4.3 m)). The steps are joined, with turning capacity, to four side support beams (two in each side). In this way, the stairway always keeps the steps horizontal, independent from the inclination level and the height.

Office building in Barcelona, Spain

Site stairs towers
Auxiliary element that facilitates safe access and movement of employees in the work site. The Alsina access ladder, with 5’-1 3/4” x 8’-5 1/8” (1.57 x 2.57 m) base, has various sections allowing access to even and uneven height ranges, braced to structural elements.

Barcelona L9 subway, Spain

Mobile work platform
The Alsina mobile work platform, made with the multidirectional connection technique and elements, is an accessory that allows work at height to be carried out safely. It is mainly used in concrete work and vibration of concrete columns and walls. The Alsina mobile work platform is independently stable and includes elements that reinforce its safety, such as baseboard, guardrail and intermediate guardrail, in accordance with the current standards.

Pla d'en Coll health center, Spain

Reinforced scaffold
Alsina Reinforced Scaffold provides a stable work structure that allows the placement of steel framework and other wall formwork tasks to be carried out safely.

Toledo Waste water treatment plant, Spain
Alispilar

Systems used to form square and rectangular columns with adjustment panels that allow different sections required on the market to be made with only one panel, which is adjusted with a grid in 2” (5 cm) intervals. The design of the system is based on panels that include all the integrated elements (bolt, wedge and adjustment) for greater assembly speed. Alispilar is designed to be light; because of the light weight of the panels, quick because of its easy assembly and profitable; because of the finish of the phenolic surface and the Alsina chamfer strip.

Springform Columns

A system for the shuttering of cylindrical pillars consisting of a fiberglass mold with a single vertical joint. The closing system is made with wedges and bolts, one hit with a hammer closes the pillar. The Springform Column System is cost-effective on site; it is an ideal product for creating large amounts of pillars with the same mold.
Alisply Multipurpose

Column adjustment system for large sections. Reusable formwork system for adjustment columns designed to be handled with a crane. The Alisply Multipurpose System forms the column with a fair-faced concrete finish, ideal for creating large sections up to 48” (120 cm). The Multipurpose Panel has the same characteristics as the Alisply Panel but with one important difference: their cross beams are reinforced and adjusted to be able to create columns adjustable on four sides.

Alisply Steel Columns

A system for the forming of cylindrical piles consisting of half-round metal panels. The Alisply Metal Piles system allows for the creation of round pillars or moduled pillars with semicircular ends. Likewise, when the Alisply profile is on the ends, the joints are made with the GR-2 Clamp. This characteristic makes it totally compatible with the Alisply range of products and offers quick and easy assembly.
Removable formwork system for concrete walls, designed to be handled by crane. Alisply is formed by a steel-reinforced frame and a lining of phenolic resin-coated plywood $\frac{9}{16}$" (15 mm) thick. Large surface areas 32.3 and 64.6 sf (3 and 6 m²) can be created with minimal space between the panels, due to its carefully researched steel-reinforced structure. Alisply only needs two tie rods for every 9'-10 1/8" (3 m) of height. This allows the wall to have a finish without excessive imperfections.

Circular wall formwork system, to be crane handled, consisting of a galvanized steel frame and a phenolic resin-coated plywood surface. The modules come preassembled from the workshop, only the radius has to be defined on site. In order to do this, the design of the panel includes all the necessary components (no special tool is required to curve the phenolic plywood).
Alisply M-Handset

Recoverable formwork system for concrete walls, designed to be handled without using a crane (weight 30 kg/m²). Alisply Manual is made up of a 4 5/16” (11 cm) thick frame reinforced with zinc plated steel and a 1/2 (12 mm) thick phenolic plywood lining. The variety of modules and accessories, the surface of the phenolic plywood, its light weight and the fast clipping mechanism make the system manageable and quick to assemble, giving it a good finishing appearance as well.

Wallite

Very versatile light formwork for walls adaptable to any geometry. The system is quick joining, which makes for high-productivity assembly. With just four panel widths, a unique corner and a few easily installed accessories, it is possible to adapt to any geometry.
Support structure for implementing one-sided walls. The system consists of a reinforced brace frames that are coupled with two Alisply Panel horizontal primary beams. The design of its components, ensures the safe transfer of the concrete forces. This occurs joining the steel brace frames with the formwork panels and the inclined anchorages inside the ground.

One-sided wall system 3 to 9 m

- Good weight / features ratio.
- Joining brace between easy positioning.
- Maximum height 10'-10" (3.30 m) and 14'-1 1/4" / 17'-4 5/8" (4.30 / 5.30 m) with filler.
- Movable together with the wall formwork.
- Rear base jack with height regulator.
- Compatible with Alisply Walkway bracket.
One-sided wall system 6 to 9 m

Support structure to create one-sided walls between heights of 19’-8 1/4” and 29’-6 5/16” (6 and 9 meters). The system consists of reinforced brace frames that are coupled to the Alisply Panel with two primary beams.

One-sided wall system from 9 m

- Admissible pressure variable depending on the foundation trench and the height of up to 1250 psf (60 kN/m²).
- Easy assembly between brace frames.
- Adjustable rear base jack.
- Adjustable front support: it allows the fitting of the formwork to the ground, preventing the concrete grout from leaking.
- Several lifting points for the crane, depending on the different loads.
- Optimal design for its stacking on site.
The Triple-hinged corner developed by Alsina is the updated and unexpensive way to form elevator and staircases cores and shafts. This part allows to form and strip cores and move the complete assembly to the next pour in an easy and fast way all together.

Retractable corner for Alisply, intended for formwork stripping and recovering inner formwork from hollow spaces, such as piers and elevators shafts. The main feature is that the corners reduce the overall dimensions of the inner formwork, allowing it to be recovered.
The Alisply Walls System has a range of aligners used to stabilize and plumb the wall modules. Designed without thread in the upper part to avoid concrete accumulation, it has an easy to remove base plate and various possibilities for securing to the ground. It allows the movement of the panels without needing to dismantle the aligners.

Alisply Quick Core system

The retractable formwork for hollow structures and cores offers the versatility necessary to solve hollow structures and cores such as elevator shafts or columns. Its panel complements the set of accessories of the Alisply system in order to solve the stripping of formwork using a crane in hollow structures and cores. The retractable formwork offers a great added value in terms of safety since it is not necessary that the operator enters the interior of the formwork in order to strip the interior in the traditional way.

Alsina Aligners

The Alisply Walls System has a range of aligners used to stabilize and plumb the wall modules. Designed without thread in the upper part to avoid concrete accumulation, it has an easy to remove base plate and various possibilities for securing to the ground. It allows the movement of the panels without needing to dismantle the aligners.
The climbing platform C-160 system allows piles and walls of climbing cycles with pouring heights of up to 13'-1 1/2" (4 m) to be formed with total safety for the laborers. The assembly of the climbing platform and its safety platform can be carried out on the ground, before positioning it on the wall/pile, or by placing the platforms in the anchorage rings and assembling the platform later. It can be set using either Alisply (straight and radius walls) and Vistaform Straight and Radius Walls also.

C-160 Climbing system

The climbing platform C-240 system allows piles and walls of climbing cycles with pouring heights of up to 19'-8 1/4" (6 m) to be formed with total safety for the laborers. It can be positioned with two anchorage systems: using M-24 ties bars or using Metal cones with ties set in the concrete. It can be set using either Alisply (straight and radius walls) and Vertical Multiform.

C-240 Climbing system
Multiform Climbing system

System designed to anchor different types of structures from the Multiform system to a wall, by using a climbing anchor M24. It is mostly used as a climbing console. Given the complete Multiform system versatility, it is adaptable to both standard geometries as to special solutions. It allows climbing cycles with pouring heights of up to 19'-6 1/4" (6 m) safely.

One-sided Climbing system

A system for safe one side construction of vertical and inclined walls at heights. Alsina’s One-sided Climbing System provides solutions for dam and pier construction and complex projects that require one side formwork. The system’s versatility provides standard as well as special solutions. A profitable system due to the components of the Alsina Multiform system. Easy assembly and element connection via pins, not requiring the use of tools. Compatible with all corresponding Alsina safety systems.
**Interior Climbing system**

A system designed for safe performance of: interior climbing systems in hollow pier formwork, elevator shaft formwork and all types of hollow structures with multiple sections. The design principle of the Interior Climbing System is simplicity: it is very easy to assemble, without the need for tools and it can be moved quickly and easily.

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**Bridge deck Multiform**

Multiform is a highly versatile system that adapts to a wide range of geometrical shapes for the construction of: Bridge decks, large thickness slabs and headers or platforms, bridges, underpasses and overpasses. A modular system consisting of elements that couple together easily and adapt to a variety of geometrical shapes due to their flexible configuration prepared by the corresponding technical study. If a board requires elevations, drops or forms a curve, the Multiform system provides these with great ease.
Alsina Vault dome formwork

Circular vault dome system, to be crane handled, consisting of a galvanized steel frame and a phenolic resin-coated plywood surface. The modules come preassembled from the workshop, only the radius has to be defined on site. In order to do this, the design of the panel includes all the necessary components (no special tool is required to curve the phenolic plywood). Union of the modules using manual clamps from the lower platform. It’s not necessary that any operator transits through the curved formwork surface in order to formwork.

Alsina Tunnel entrance formwork

Circular system, to be crane handled, consisting of a galvanized steel frame and a phenolic resin-coated plywood surface. The modules come preassembled from the workshop, only the radius has to be defined on site. In order to do this, the design of the panel includes all the necessary components. The system allows the external closure of the tunnel entrance formwork using the coating carriage.
**Vertical Multiform**

A reusable formwork system for straight-faced walls with all sorts of polygonal shapes and architectural concrete. The equipment is configured specifically according to the load to bear, which can be greater than that of steel frame walls. The steel primary beams and wood secondary beams that make up the structure are connected by: the Multiform connector, which provides solid attachment and is very easy to assemble.

**Circular Multiform**

Recoverable formwork system for curved walls with standard and special size modules and with high quality fair-faced concrete finish. Multiform Circular consist of a mixed support structure composed of wooden beams (HT-20) with steel profiles and a formwork surface of phenolic resin-coated plywood board. Regarding the panel systems with metal frames, Circular Multiform ensure that the meetings between panels are almost invisible as they are both made of phenolic plywood board.
Alsina has developed a bridge pier formwork system called SCAP (High Performance Bridge Pier System). The system solves bridge pier construction, providing productivity and complete safety. The use of SCAP avoids the need for scaffolding support and is therefore especially useful in bridge piers seated on uneven terrain. In addition, this feature greatly facilitates formwork release using sliding wedges and reduces multiple repetition of movements.

High load capacity gantry bracket, used for framing lintels, capitals and slabs at high altitude avoiding the need of shoring towers. The gantry bracket allows to download and level the system, making the formwork’s assembly and disassembly easier.
**Mine Tunnels**

Equipment for lining tunnels. Self-supporting formwork that is moved using hydraulically driven carriages. Easy to handle transfer carriage. Hydraulic system to carry out all the movements. Sideways movable carriage.

**Contecar port in Cartagena de Indias, Colombia**

**Self-launching falsework**

Construction system for building maritime slabs on pilots.
- Reduced use of auxiliary and prefabricated elements, as well as of the amount of steel and concrete needed to build the slab.
- The "on site" pouring of the slab implies minimising the cold joints.
- Better quality finish.
- Time savings in the work execution.
Successive cantilever carriages

Carriages for implementing deck construction in cantilever bridges and wide span compressive arches using the successive bolt method. Set up of 16'-4 $\frac{7}{8}'$ (5 metres) or even more in special cases.
- Successive cantilever carriage with hydraulic or mechanical.
- For constant and variable transversal section.
- With vertical or inclined side wall.
- Assembly with crossmember for the first setting over the pile head.

Arch bridges

Formwork carts designed to execute arch bridges can be divided into two types: Suspended carts and Freestanding carts.
Suspended carriages are used when the construction method consists of implementing the boards ahead of the arch. On the other hand, freestanding carts are used when the arch is implemented before the board.
Safety in Alisply Walls

Complete safety when pouring vertical walls, compatible with all Alsina, Alisply Heavy Walls formwork systems.

Safety in Climbing systems

Complete safety when pouring walls while using climbing systems; compatible with all Alsina wall climbing systems.
Safety in One-sided Walls

Example of safety when pouring vertical walls; compatible with all Alsina one-sided wall formwork systems.

Safety in Column formwork

Example of safety when pouring columns; compatible with all configurations of the Alispilar column formwork system.
Alsipercha

A safety system, especially useful for perimeters. The system ensures completely safe conditions while installing: boards, safety handrails, gallows-type safety nets, formwork risers and all activities involved in formwork assembly where there is risk of falling from a height. Easy to assemble and use, does not require outside installers.

Safety Railings

Alsina has a wide range of guardrails, both to provide protection to its slabs formwork systems and to protect the slab after pouring. The different solutions protect the worker from possible falls on the perimeter and internal holes of the slab. Their placement is quick and easy, ensuring the work during the job.
Alisan Boards

Alsina has manufactures the Alisan range of Boards since 1968; first board manufactured with glued planks, protective metal profile and useable on both sides. At the present time we have made more than 20 million boards and can offer a wide range of boards based on the needs of our clients.

Alsina Phenolic Plywood

Alsina’s plywood board is made completely with birch wood having following the strictest quality controls. Its structure is made up of birch sheets glued to each other and protected on the outside faces with a phenolic film covering. The final assembly provides a stable, clean and resistant surface for our formwork systems.
Comprehensive sales, logistics and technical service

Mecano Alsina: Cost-effective and safe shoring solutions

Resistant and safe post-shore, shoring and scaffold systems

Columns, pilasters and shear wall solutions

Straight and radius wall solutions, both crane-set and hand-set

Climbing systems, safe and reliable

Civil works systems and solutions

Tunnel, harbors, and self-travelers

Safety accessories and systems

Wide range of accessories for all our systems

Outstanding projects: