

DISCONTINUOUS STRUCTURES AND PAVEMENTS.



Actividades de Consultoría Técnica,
Investigación y Servicios Avanzados, S.L.

THE FASTEST WAY TO BUILD QUALITY
STRUCTURES AND PAVEMENTS

DESIGNED FOR EXTREME CLIMATIC AND GEOLOGICAL EVENTS,
CONFLICTS, AND IDEAL FOR EMERGENCY SITUATIONS

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D.S.P

The concept named as Discontinuous Structures and Pavements., (**D.S.P**), includes several innovations enclosed in four **registered patents**:

- Detachable pavements.*
- Industrial Modular Building.*
- Caisson Walls.*
- Slabs with no formwork.*

D.S.P. are modular and made of different independent elements that interact with contacts when are assembled. The structural behaviour makes possible an efficient transmissions of all loads down to the foundation.

D.S.P. are characterized by the following properties:

- Modularity.*
- Fast Construction.*
- No formwork is needed.*
- Great Stiffness.*
- Disassembly.*
- Easy Construction and installation.*
- Constructible anywhere.*
- Suitable for extreme events and conflicts.*

CONSTRUCTIBLE ALL OVER THE WORLD

All the moulds that are needed to manufacture D.S.P. can be transported to **anywhere in the world.**



The use of permanent plastic formwork in detachable pavements allows the easy transport from the plastic manufacturing center to the final installation on site.



For prefabricated pavements we use standard moulds adapted to machinery with presence in more than 60 countries. All D.S.P. elements can be transported to overseas countries.

THE DETACHABLE PAVEMENTS

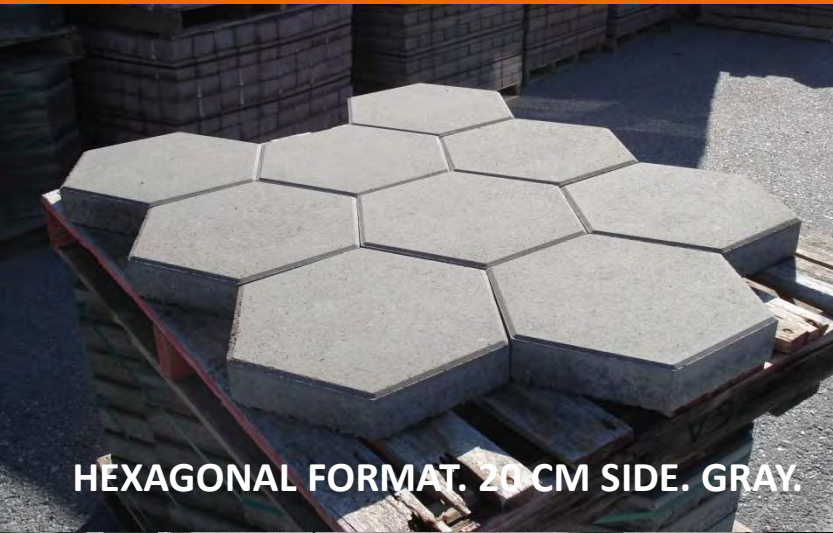
The detachable pavement is mainly characterized by its aesthetic finishing and its good structural operation, feasible for heavy traffic. In addition, it can be disassembled and replaced when it is required to repair facilities, to reurbanize or to reinstall the pavement in another location.

Our prefabricated solutions allow a really quick assembling. Nowadays, we have available a 33.3 cm rectangular format and a 20 cm hexagonal format. This solution can support the highest traffic levels. An interesting range of colours is available.

NO DEMOLITION IS NEEDED TO REMOVE THE PAVEMENT



THE DETACHABLE PAVEMENTS



HEXAGONAL FORMAT. 20 CM SIDE. GRAY.



RECTANGULAR FORMAT. 33,3 CM SIDE. DIFFERENT COLOURS.



RECTANGULAR FORMAT. 33,3 CM SIDE. GRAY.



HEXAGONAL FORMAT. 20 CM SIDE. DIFFERENT COLOURS.



DETACHABLE PAVEMENTS ARE DESIGNED FOR HEAVY TRAFFIC

THE DETACHABLE PAVEMENTS

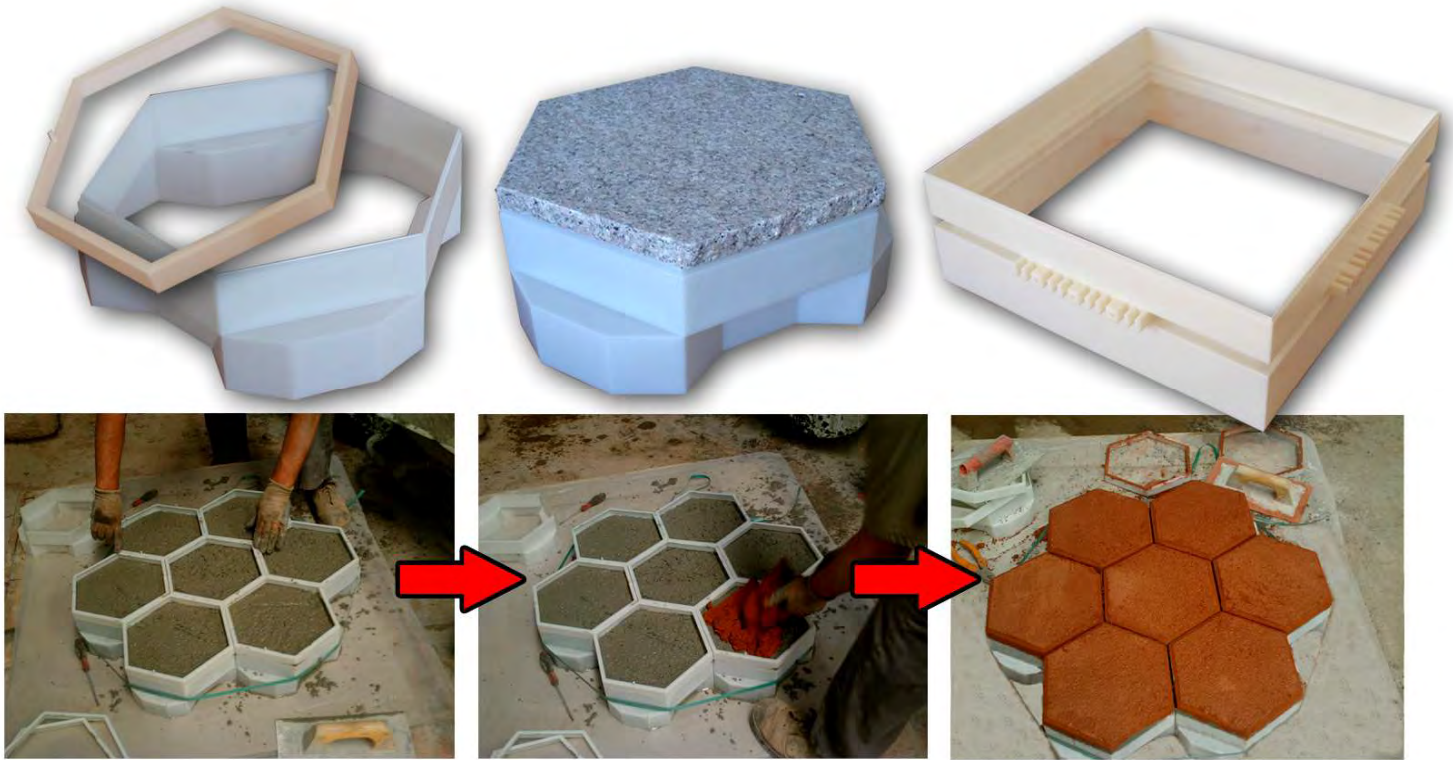


MANY GEOMETRICAL COMBINATIONS OF COLOURS CAN BE DESIGNED.

THE USE OF STONE IS ALSO AVAILABLE



THE DETACHABLE PAVEMENTS



IN SITU CONCRETE FINISHED SOLUTIONS HAVE UNBEATABLE PRICES. NOW, WE HAVE AVAILABLE THE 15 CM SIDE HEXAGONAL FORMAT, (HEXATRIPET MODEL) AND THE 40 CM SIDE RECTANGULAR FORMAT.



IMC. INDUSTRIAL MODULAR CONSTRUCTION



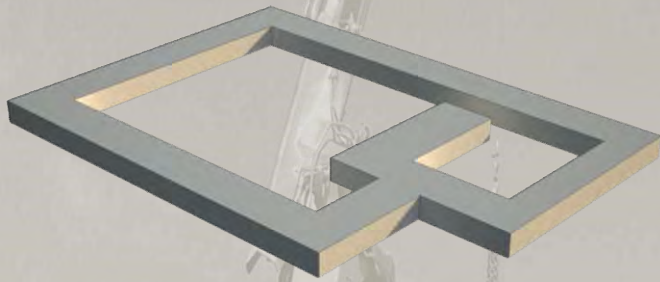
THE IMC SOLUTION FOR INDUSTRIAL PLANTS ALLOWS THE SHORTENING OF EXECUTION DEADLINES.

IT ALLOWS ACHIEVING ENERGY CLASS A AND IMPROVING SOUND INSULATION UP TO 50%.

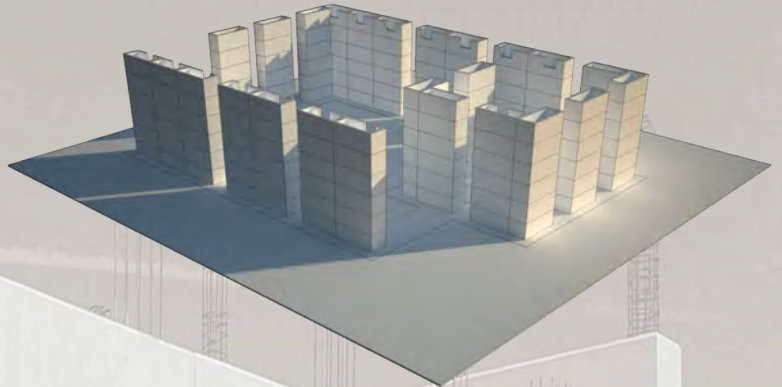
SOLUTION OF GREAT STRUCTURAL RIGIDITY



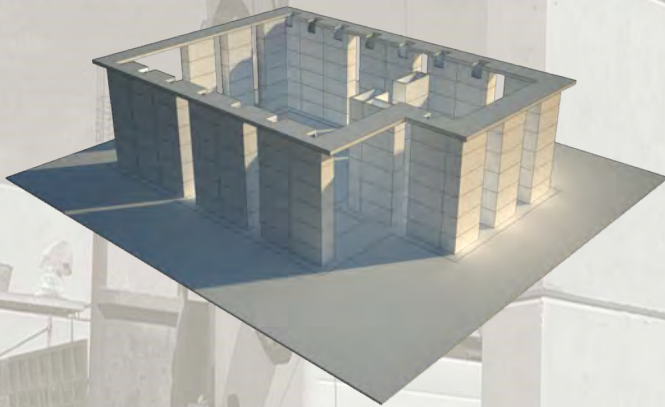
IMB. INDUSTRIAL MODULAR BUILDING



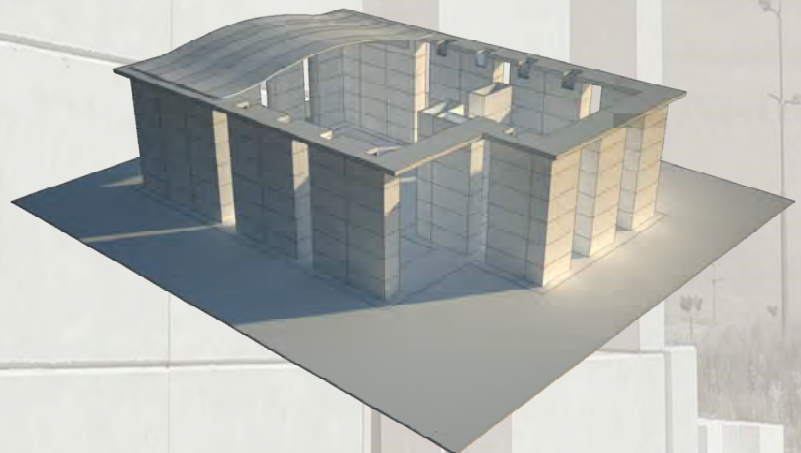
1. CONSTRUCTION OF FOUNDATION. (3 DAYS)



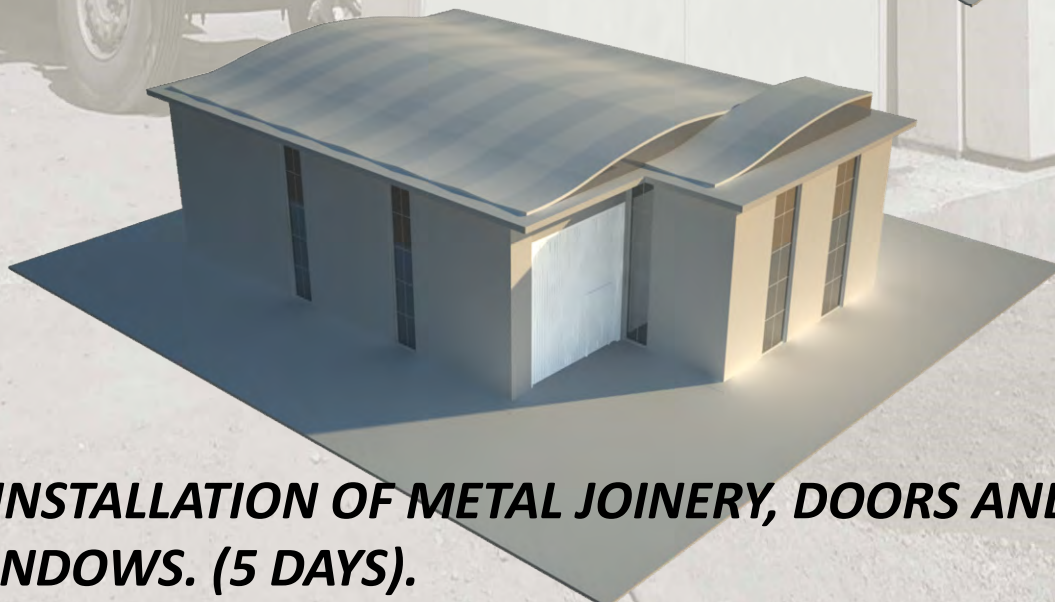
2. INTALLATION OF WALLS. (3 DAYS)



3. INSTALLATION OF DECK ROOF SUPPORT . (2 DAYS)



4. INSTALLATION OF PREFABRICATED ROOF (2 DAYS)



5. INSTALLATION OF METAL JOINERY, DOORS AND WINDOWS. (5 DAYS).

CAISSON WALLS



THIS SOLUTION FOR CIVIL ENGINEERING IS HIGHLY QUICK AND SIMPLE TO BUILD. IN ADDITION TO RETAIN FILL SECTIONS AND EMBANKMENTS, IT IS ALSO AIMED AT REPAIRING DISPLACED CUT SECTION SLOPES, WHICH WILL ALLOW STABILIZING IT IN A FEW HOURS.

ITS UNBEATABLE PRICE IS JUSTIFIED BY THE OPTIMIZATION OF THE CONCRETE VOLUME AS WELL AS THE FILL OF THE CAISSON WITH MATERIALS COMING FROM THE OWN EMBANKMENT.

CAISSON WALLS

THESE CAISSON WALLS ARE FILLED WITH LANDFILL COMING FROM THE CUT SECTIONS.



THIS SOLUTION WAS USED AS A DOCK IN THE TRANCO RESERVOIR.

THE TOTAL LENGTH IS 250 M AND THE MAXIMUM HEIGHT 6.5 M.



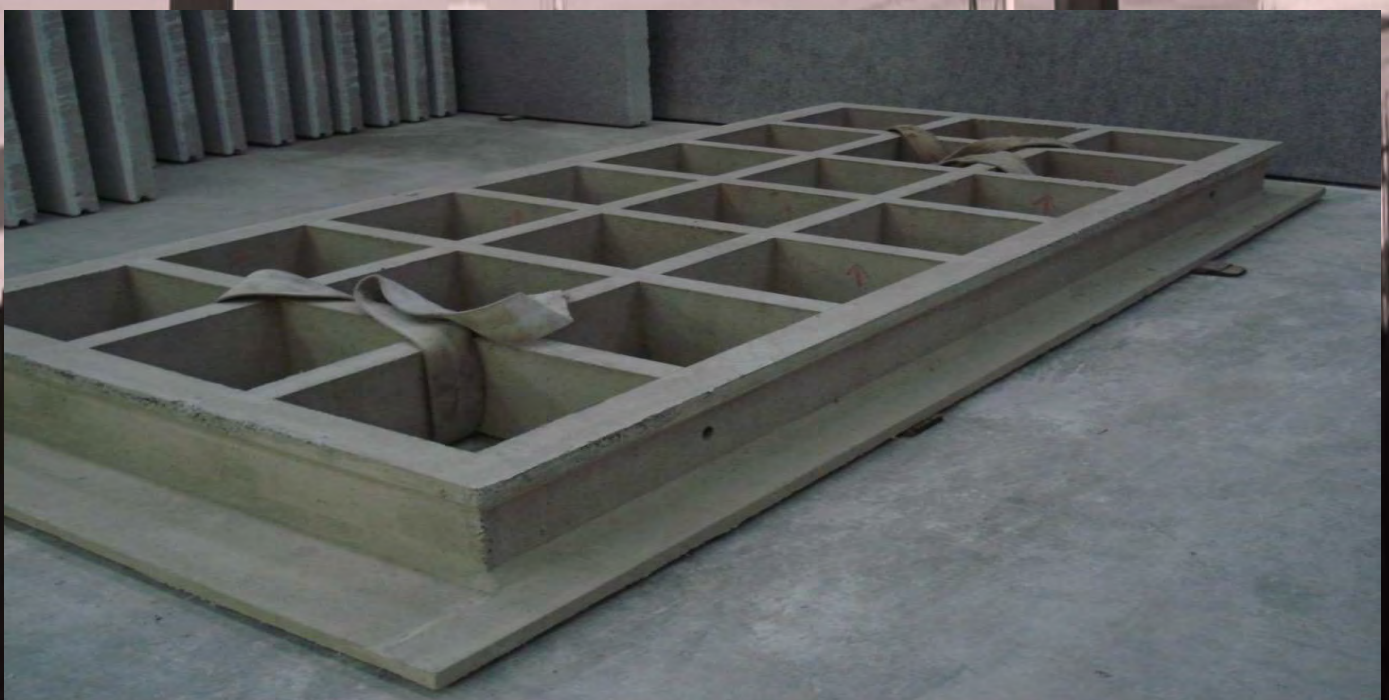
ITS AESTHETIC GUARANTEES A GOOD ENVIRONMENTAL INTEGRATION.



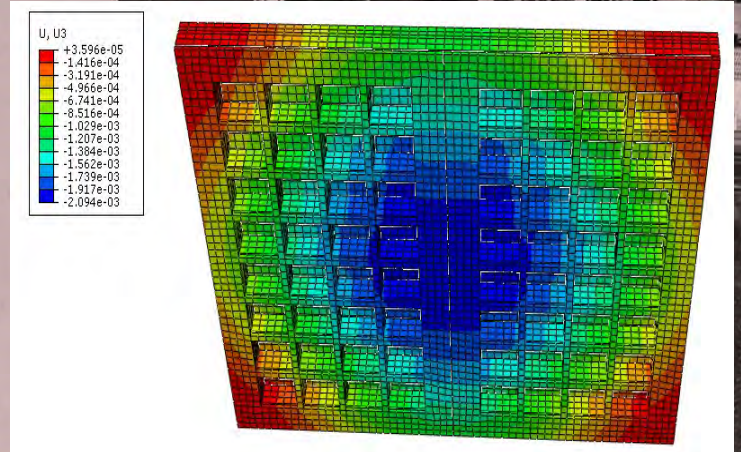
SLABS WITH NO FORMWORK

THIS SOLUTION DOES NOT NEED THE USE OF FORMWORK TO BE BUILT. EACH PANEL ACTS AS FORMWORK AND AS STRUCTURE AT THE SAME TIME. IT ALLOWS BOTH EXPOSED WAFFLE'S HOLES AND HOLES COVERED BY BLOCKS.

THE TRADITIONAL, UNIDIRECTIONAL AND WAFFLE SLABS, ARE IMPROVED DUE TO ITS STRUCTURAL OPERATION. THIS SOLUTION ALLOWS GETTING BIGGER LIGHTENED AREAS AND A QUICKER EXECUTION.



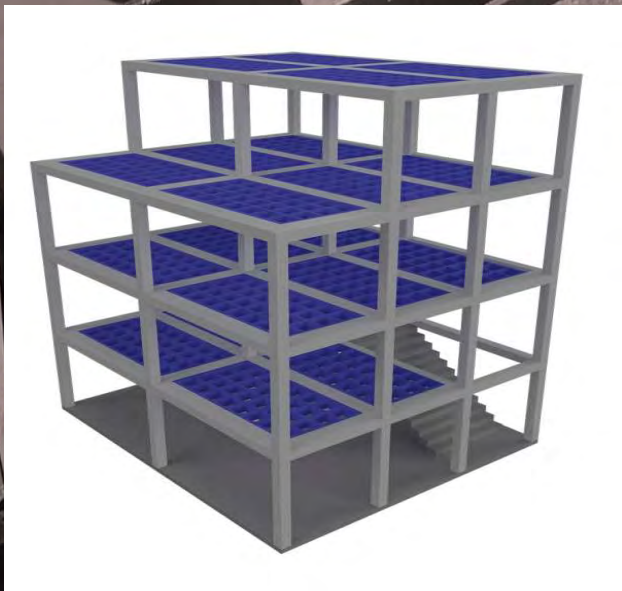
SLABS WITH NO FORMWORK



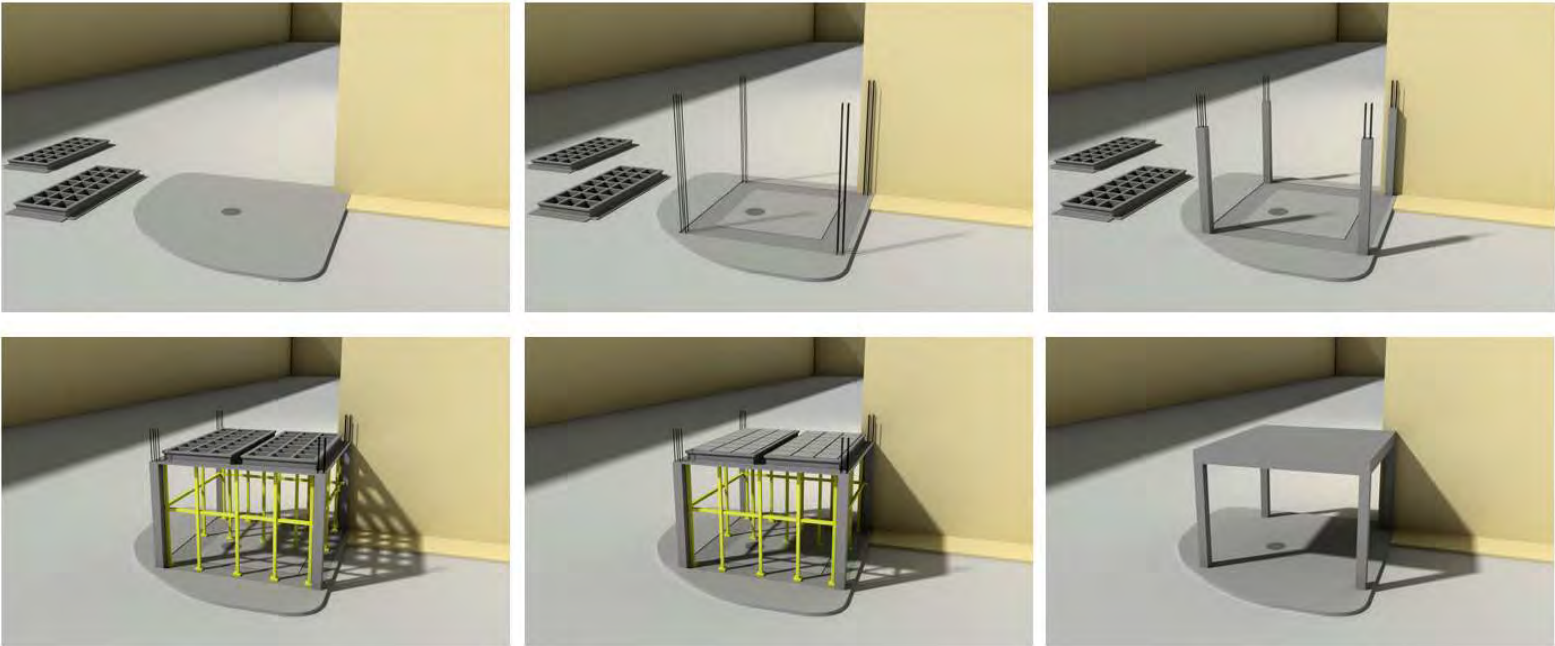
THE SOLUTION IS ADAPTABLE TO DIFFERENT GEOMETRICAL SHAPES.

THE WIDTH OF SLABS IS ADAPTED TO BE TRANSPORTED BY TRUCK IN AN EASY WAY

THE STIFNESS IS HIGHER THAN TRADITIONAL UNIDIRECTIONAL AND WAFFLE SLABS AND THE PRICE IS QUITE CHEAPER.



SLABS WITH NO FORMWORK



THE CONSTRUCTION PROCESS IS QUITE SIMPLE.



ACTISA has its main office in Spain and its team operates worldwide in national and international projects.

Do not hesitate to contact us in case you are interested in the application of Discontinuous Structures and Pavements.



ACTISA OPENS A WORLD OF POSSIBILITIES TO YOU.
DEVELOP YOUR COMPANY. PLACE IT IN A NEW ERA.
INNOVATE FROM ACTISA'S HAND.



Actividades de Consultoría Técnica, Investigación y
Servicios Avanzados, S.L.
Calle Manuel Roldán Prieto, 3, 2º F.
18140 La Zubia, Granada, Spain.
Teléfono +34.958.38.92.74 / +34.682.80.79.20
Fax: +34.958.92.70.31
www.actisa.net
actisa@actisa.net