



www.quickjet.it

TECHNICAL MANUAL

ENGLISH



Welcome

A new, quick and easy “stay-in-place” formwork for the building site, QuickJet® helps the builders to reduce labour time and costs.

QuickJet® has been studied for helping building contractors to be more efficient during the work, to cut costs, time and materials and increase incomes.

QuickJet® is the ideal solutions for bulkheads, footings, foundation masonries, retaining walls, foundations generally or everywhere it is difficult the form stripping.

QuickJet® can be used also for tanks and swimming pools, elevator spaces, tunnels, cylinders for liquids etc.



QuickJet® features

- 1. The product is purchased according to the needs;**
- 2. Can be used for various scaffolding types because of its flexibility;**
- 3. No need to come back to the construction site;**
- 4. It solves many security problems in the construction sites;**
- 5. Eco-friendly, no waste disposal procedure required;**
- 6. No need for cleaning the panels;**
- 7. No use of chemical products;**
- 8. Easy of laying;**
- 9. No waste;**
- 10. Significant reduction of man hours for scaffolding;**
- 11. It's possible to bury the formwork and then to cast;**
- 12. Ensures minimum coverage approx of cm 2.5 of scaffold;**
- 13. Significant reduction of total costs for a versatile product and many solutions.**

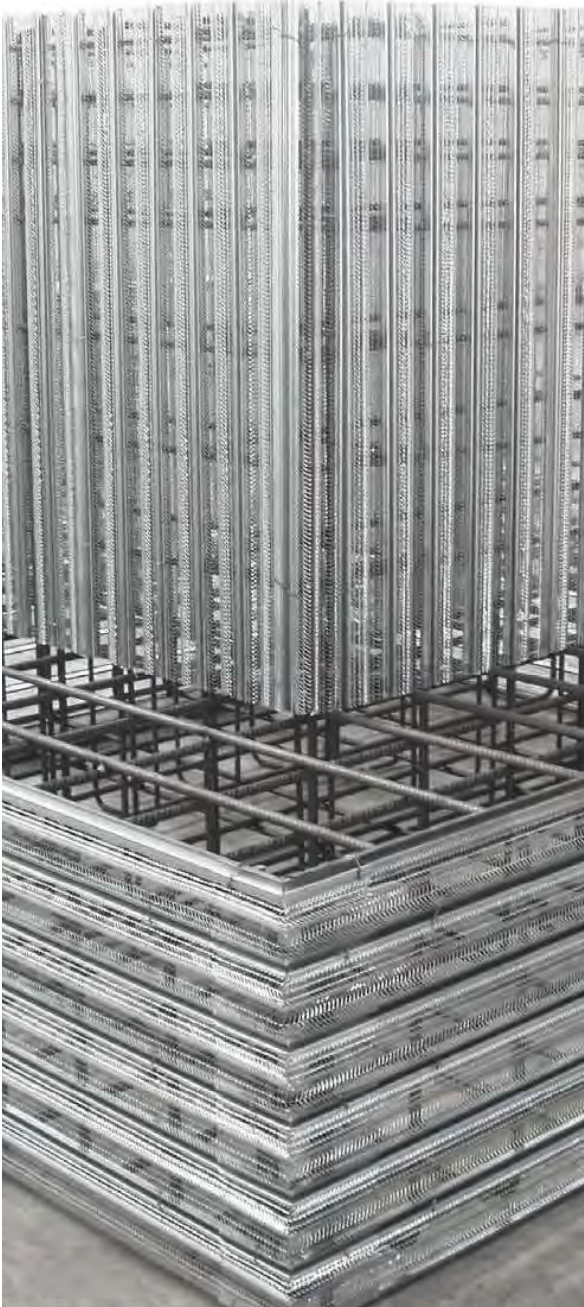






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Features and Benefits

The QuickJet® sheets geometry and thickness increase the handworks stiffness and resistance and minimize the additional steel reinforcements to use in the form.

The QuickJet® formats and dimensions are different. This improve its use in each type of project.

QuickJet® allows to reduce the labour required for the forms installation and it doesn't require stripping out.

QuickJet® minimizes scraps.

Galvanized sheets are light, transportable and storable easily.

The reduce manpower and time necessary to arrange the "stay-in-place" forms are a sure advantage, even economical, for the builders.

FEATURES	BENEFITS
QuickJet® is rigid and resistant.	QuickJet® minimizes the additional and stiffening steel reinforcement quantity; it allows to reduce manpower and costs.
QuickJet® is available in different modular formats, useful for every kind of project.	QuickJet® minimizes scraps, cuttings and size adaptation times.
The ribbed galvanized steel sheets composing the QuickJet® system allow to position the ribs in vertical or horizontal direction.	The installation is quickly and it is possible to realize different forms typologies, even with curved geometries and different sizes. Easiness of QuickJet® transport and storage.
QuickJet® is a system conceived as a perforated sheet with stiffening ribs.	QuickJet® allows the visual inspection of concrete and the way out of excess water from holes.

Technical features

The QuickJet® system is based on a set of galvanized sheets of 0.4 - 0.5 mm in thickness and 2 m in length with modular heights at the ribs (spaced 10 cm apart).

Basic elements can be used together to obtain multiple measures, in comparison to those standards, or they can be partly overlapped to obtain different measures without having to provide shears and scraps disposal. The fixing to steel reinforcements is realized with simple wire-tiers.

The QuickJet® structure is composed by ribs, that strengthen and stiffen the forms, and by lighter components that have carvings, obtained by pressing and ironing; these elements make the product more flexible and light, easy to tie with

reinforcement rods and minimize significantly the concrete cast pressure in the form.

QuickJet® is both steel reinforcement and “stay-in-place” formwork, so the clearing activities (form recovery and scraps disposal), typical of the traditional building system, are not necessary.

It is also possible pre-assemble the “stay in place” forms with steel reinforcements inside plant and after transport them in the yard, saving waste of time and manpower costs.

This is an ideal system for foundation elements and columns.

Supply conditions

STANDARD QUICKJET® “STAY-IN-PLACE” FORMWORK Standard dimensions: length cm 200 – height cm 40 – 50 – 60
PACKAGING: pallets wrapped in polyethylene

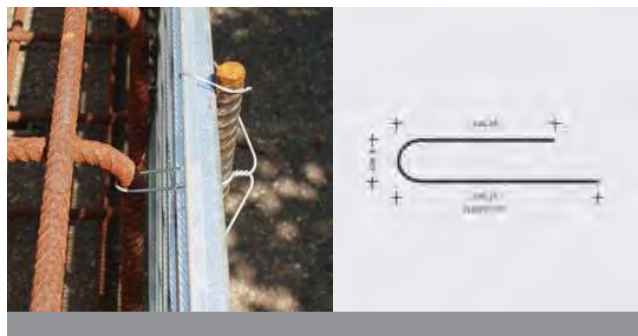
SHEETS DIMENSIONS(CM)	PALLET SIZE (CM)	N° SHEETS/PALLET MQ	SQ. MT /SHEET	TOTAL SQ. MT /PALLET	PALLET WEIGHT (KG)
40x200	50x205x70	125	0,8	100	~ 400
50x200	60x205x70	125	1,0	125	~ 500
60x200	70x205x70	125	1,2	150	~ 600

SPECIAL QUICKJET® “STAY-IN-PLACE” FORMWORK Dimensions : length cm 200 – height cm 20 – 30
PACKAGING: pallets wrapped in polyethylene

SHEETS DIMENSIONS(CM)	PALLET SIZE (CM)	N° SHEETS/PALLET MQ	SQ. MT /SHEET	TOTAL SQ. MT /PALLET	PALLET WEIGHT (KG)
20x200	30x205x70	125	0,4	50	~ 200
30x200	40x205x70	125	0,6	75	~ 300

Other dimensions in length are available on demand and with a separate listing.

Accessories Quickjet® Binding



TYPE	DIMENSION	INCIDENCE/ SQ. MT	PACKAGING	N° PIECE/ PACK.	KG/PACK.
Short Wire	cm 14 + 17	32	Cardboard box	~ 1600	~ 10
Long Wire	cm 40 + 43	17	Cardboard box	~ 375	~ 10
Long Wire	cm 50 + 53	17	Cardboard box	~ 320	~ 10

Other measures available on demand.

Accessories Quickjet® Angles



TYPE	DIMENSION	WEIGHT PIECE EACH	PACKAGING
Sole piece 200 cm in length	cm 6x6x200	Kg. 1 ~	loose

Accessories Quickjet® Spacer



TYPE	LENGTH	PACKAGING	N° PIECE/PACK.	MT/ PACKAGING
cm. 1,5	cm 200	strapped	50	100
cm. 2,5	cm 200	strapped	40	80

Quickjet® only 3 simple assembling sequences

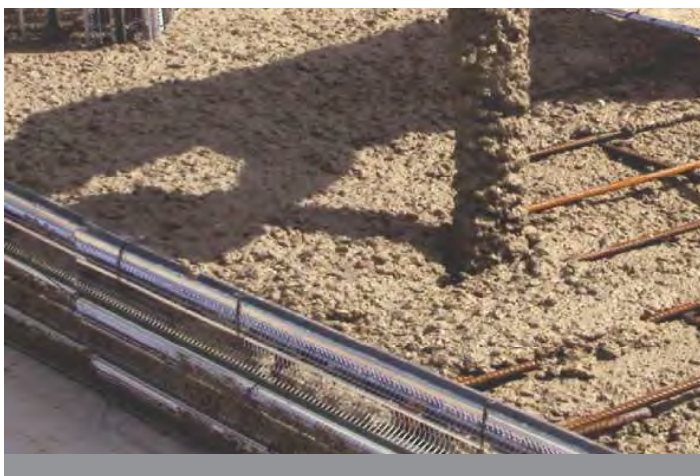
1) Bind Quickjet® to steel frame



2) Fix bindings with a pair of pincers



3) Proceed with concrete casting in usual way





Beams of foundation



Pillars



Tubs



Bridges



Extreme applications



Vertical applications





Special applications



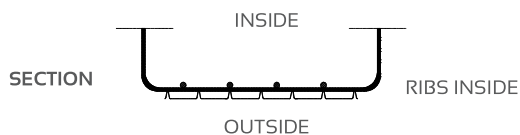
Direction for use

After having traditionally prearranged the reinforcement for the concrete element on which you want to use QuickJet®, it is better doing a short consideration on the way you want to install it, because the ways of use are different and depend on the starting situation.

Ribs facing inside without spacers

The metallic formwork is installed with ribs facing the surface to be reinforced so that they can be used as spacers, obtaining a 2 cm cover on the reinforcing steel.

After that, you can obtain 3-4 cm cover on the reinforcing steel by applying a 1-2 cm thick layer of cement mortar. This is the quickest procedure.

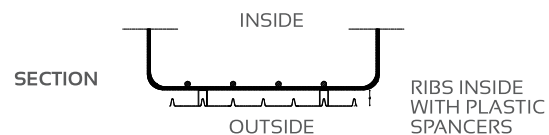


With horizontal ribs

To be used when brackets are vertical. In this case, angles to close the corners of the throwaway caisson are necessary because horizontal ribs do not enable to bend the standard element for a perfect shutting, and are therefore not to be counted when calculating the surface. Also in this case, as for the previous one, QuickJet® can be installed both with or without spacers, and with ribs facing both inside or outside.

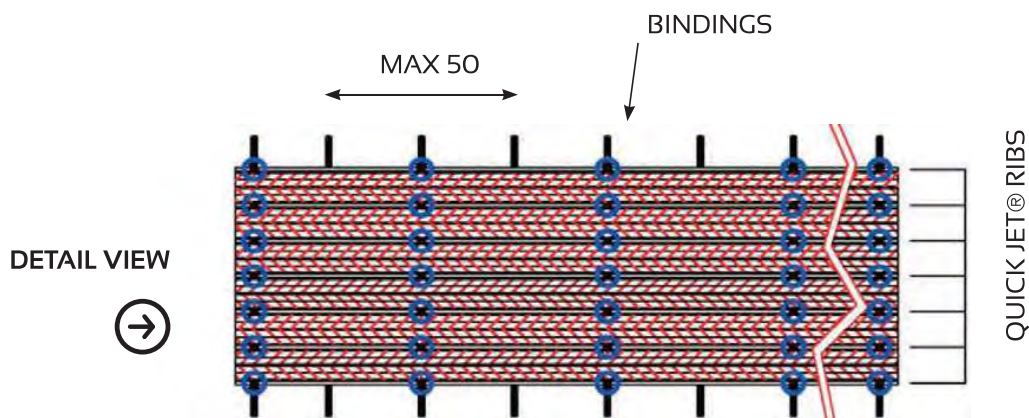
Ribs facing inside with spacers

To be used when you need to avoid any contact between metallic formwork and reinforcement by installing plastic spacers between the two elements. The 2,5 cm plastic spacers, which can be used, according to the needs, even to widen the distance to 5 cm, shall be installed between the reinforcement and the stay in place metallic formwork; they shall be inserted on the ribs of the standard element.



With vertical ribs

To be used when brackets are horizontal. In this case, angle to shut the elements are not necessary, because the flexibility of QuickJet® enables to follow easily the profile of the reinforcement surface. Obviously, it is possible to adopt this solution using QuickJet® both with or without spacer, and with ribs facing both inside or outside.



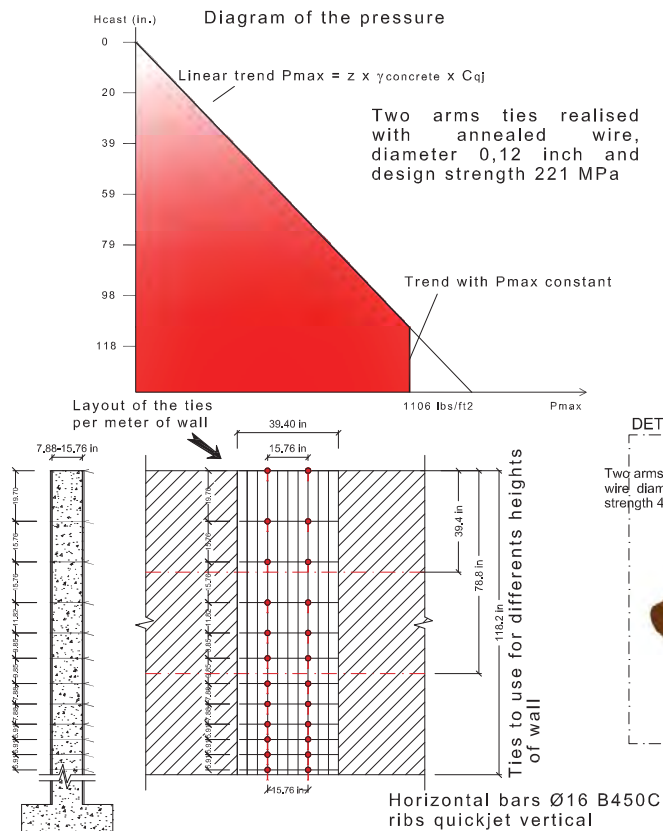
Speed of casting phase $\leq 99\text{in./h}$
Concrete $f_{ck} > 3600\text{ psi}$ Slump S3 - S4

DISPOSAL WITH VERTICAL RIBS AND HORIZONTAL EXTERNAL BARS

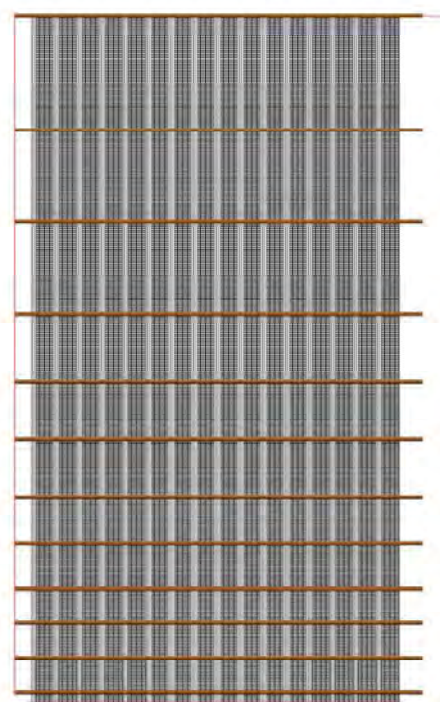
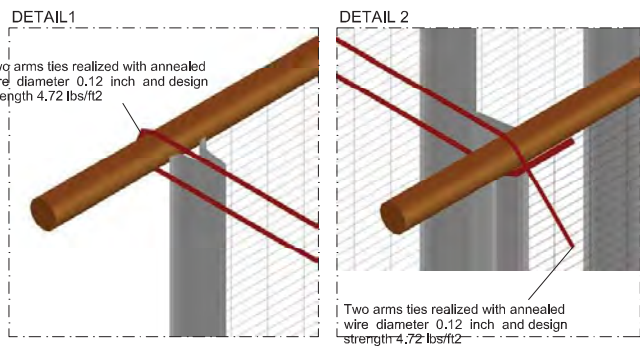
- It is always present a tie equal to 2-4 in. at the top and at the bottom of the wall;

- It is possible to tie the mould QUICKJET to the internal reinforcements of the retaining wall to realize walls with high thickness;

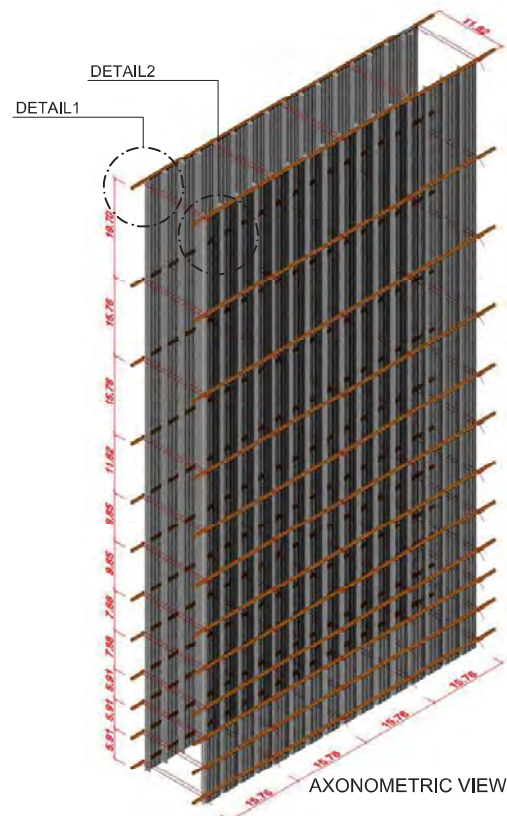
- The distribution shown represents a standard positioning, each designer can realize a personal distribution related to mechanical properties of the components (ribs of quickjet mould, ties internal bars).



For depth of casting more than 9 ft, continue with ties spaced by 7 in. up to the maximum height of 14 ft.



PROSPECT VIEW



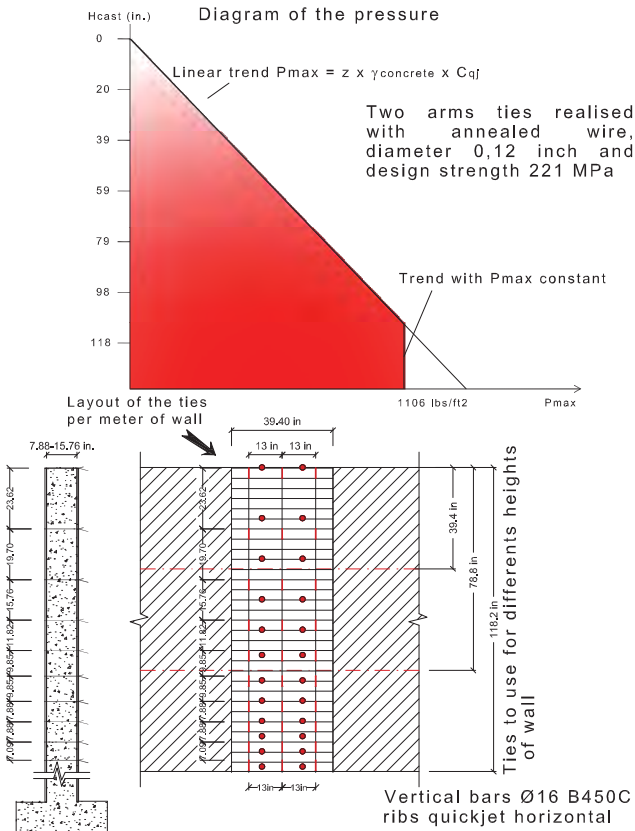
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DISPOSAL WITH HORIZONTAL RIBS AND VERTICAL BARS

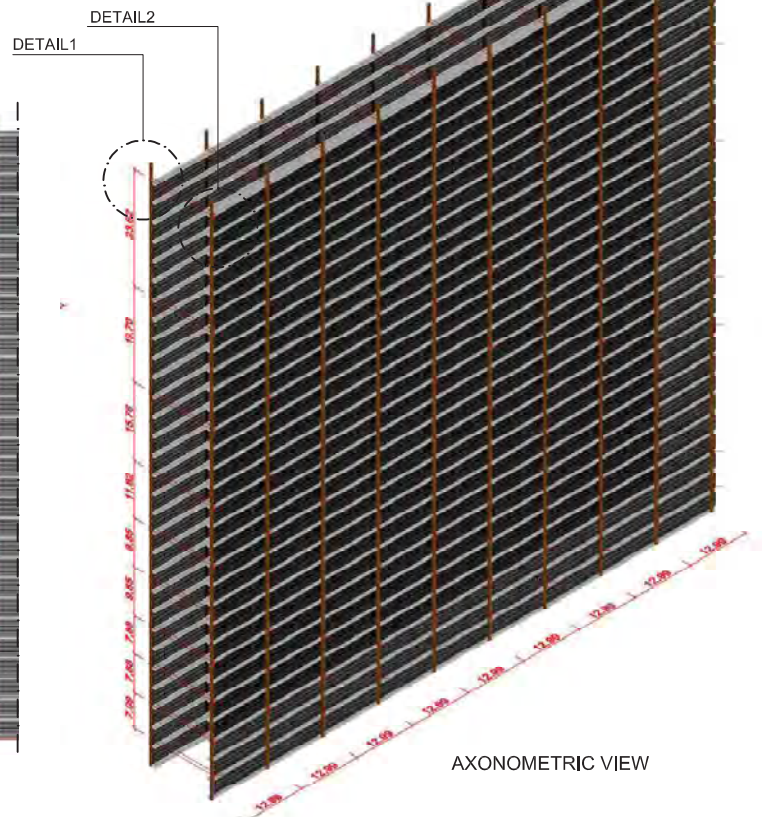
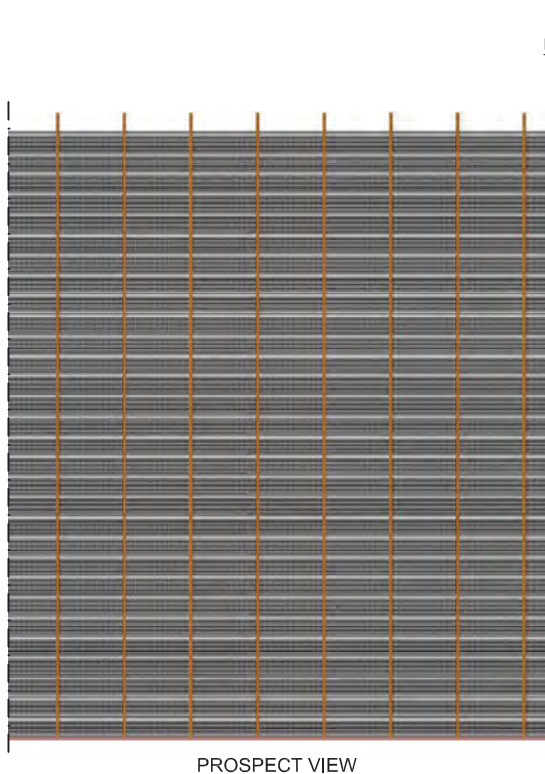
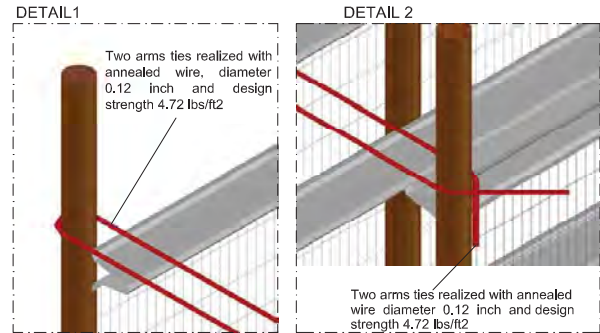
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WORKS CARRIED OUT WITH THE QUICKJET SYSTEM IN DIFFERENT STATES
AIRPORTS - FOOTBALL STADIUM - SHOPPING CENTERS - RESIDENTIAL
BUILDINGS



FOUNDATIONS TANKS ELEVATORS WALLS PLINTS BEAMS PILLARS BRIDGES - TUNNELS

