

ENGLISH



FORMWORKS MAGNUM 2.0

 Made in Italy



MAGNUM 2.0

Modular formwork system for large areas, **MAGNUM 2.0** represents the ideal solution for large sites and for obtaining high productivity even in the most severe conditions.

Frame height 120 mm, finishing: hot-dip galvanized.

The base or reinforced panel of 240x300 cm, equal to 7.20 m² uses only 4 bar passages for the contrast tie-rods and just two clamps for connection. Few connection accessories allow creating large reinforced areas to be handled in a single solution single-sided casting up to 7.50 m in height, climbing casting in elevation, castings of walls and pillars up to 9.0 - 10.0 m in height and any other structure cast on site.

The **MAGNUM 2.0** formworks belong to class 7 according to prEN15113-1.

Maximum concrete pressure: 80 kN/m².



CHARACTERISTICS

MAGNUM 2.0 formworks of 240x300 cm, with tie rods inside the panel and formworks of 120x300 cm (including all undersized models) with perimeter tie- rods of large surfaces and with few accessories.

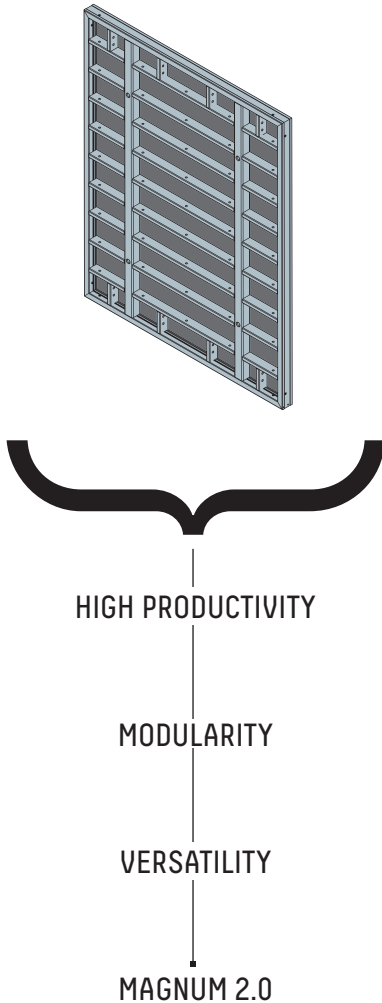
MAGNUM 2.0 with plywood panel

| H 300 cm | H 150 cm | H 100 cm | Adjustable panel for columns |
|----------|----------|----------|------------------------------|
| 240x300 | | | 120x300 |
| 120x300 | 120x150 | 120x100 | 90x300 |
| 90x300 | 90x150 | 90x100 | 120x150 |
| 60x300 | 60x150 | 60x100 | 90x150 |
| 30x300 | 30x150 | 30x100 | 120x100 |
| | | | 90x100 |

MAGNUM 2.0 with Elephant-plywood panel

| H 300 cm | H 150 cm | H 100 cm | Adjustable panel for columns |
|----------|----------|----------|------------------------------|
| 240x300 | | | 120x300 |
| 120x300 | 120x150 | 120x100 | 90x300 |
| 90x300 | 90x150 | 90x100 | 120x150 |
| 60x300 | 60x150 | 60x100 | 90x150 |
| 30x300 | 30x150 | 30x100 | 120x100 |
| | | | 90x100 |





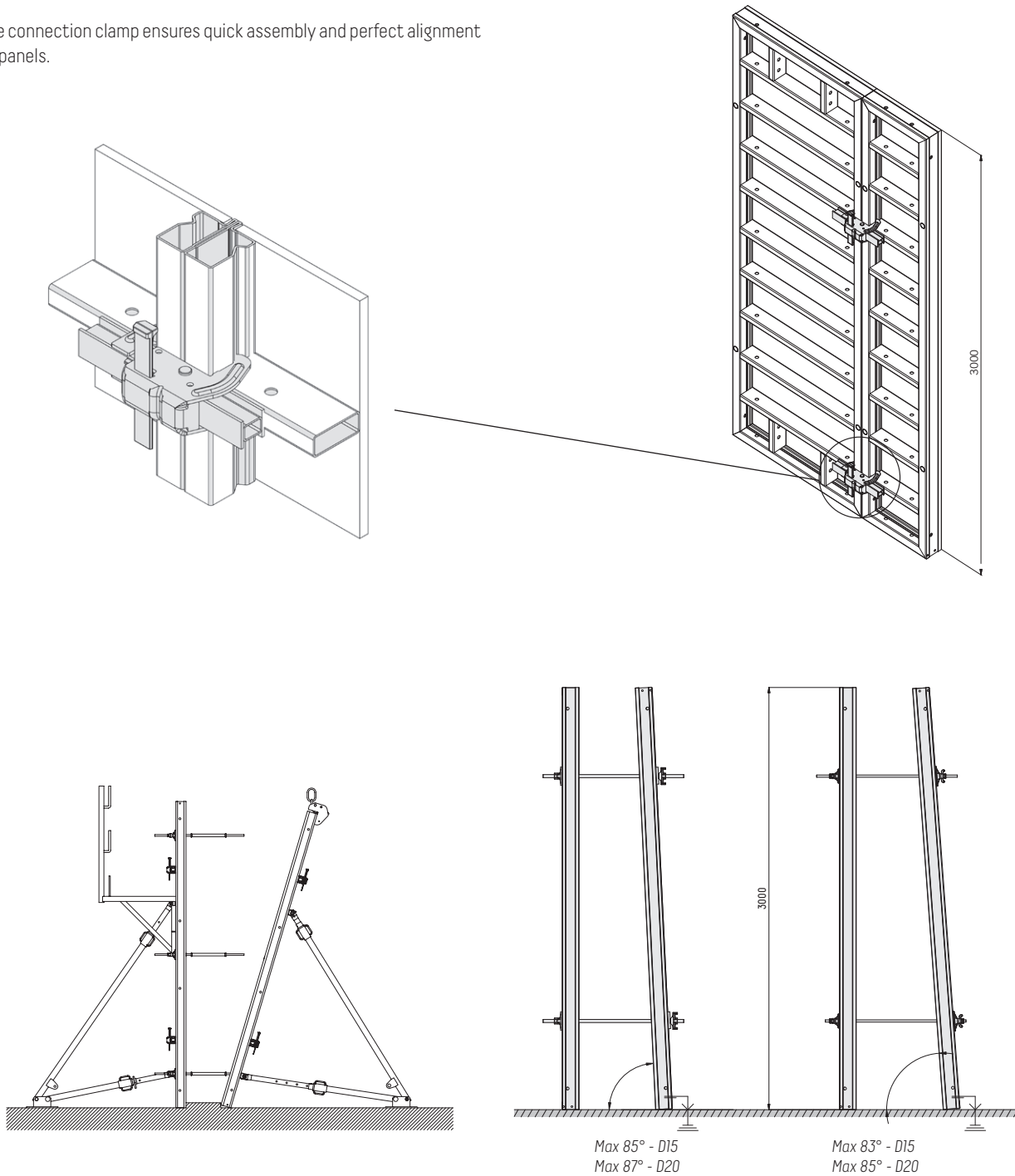
STRENGTHS

- large modularity of panels that can be used both vertically and horizontally
- availability of undersized models and plywood elements to center the measurement
- The base panel of 240x300 cm is the strongest of **Pilosio** formworks (471 kg) with features that allow applications up to 80 kN/m²
- high productivity of the large dimension panel with a surface of 7.2 m²
- 1 tie rod every 3.6 m², 1 connection clamps every 7.26 m², bar passage with conical bushing
- possibility of casting with “**Self Compacting Concrete**”
- the **MAGNUM 2.0** system can be combined to **MINIMAG** panels by using an adjustable clamp
- the panels can be reinforced when inclined
- wide range of accessories for every need
- 3 different options to reinforce the corner nodes according to the needs of the site
- special pressed parts on frame profile that speeds up the dismantling operations
- hot-dip galvanized finishing



CONNECTION SYSTEM

The connection clamp ensures quick assembly and perfect alignment of panels.

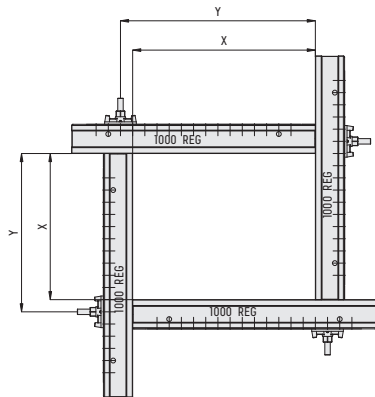


Formwork installation.

Walls, inclined up to 7° compared with the vertical line can be carried out.

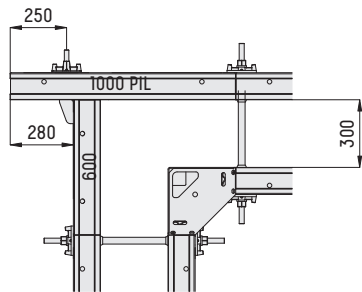
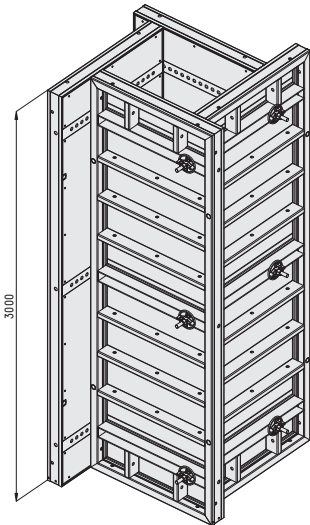
ACCESSORIES

Adjustable panels for columns with dimensions from 20 to 85 cm and adjustment every 5 cm. Maximum pouring pressure: 80 kN/m².
Adjustable panels upgraded to offer better quality to concrete casting finishing.



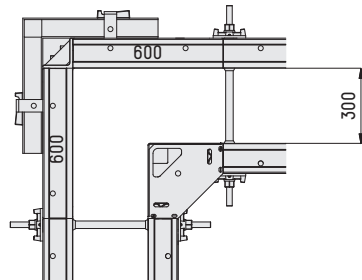
POSSIBLE COLUMN
DIMENSIONS IN CM

| X | Y |
|-----|-----|
| 200 | 250 |
| 250 | 300 |
| 300 | 350 |
| 350 | 400 |
| 400 | 450 |
| 450 | 500 |
| 500 | 550 |
| 550 | 600 |
| 600 | 650 |
| 650 | 700 |
| 700 | 750 |
| 750 | 800 |
| 850 | 900 |



FORMATION OF CORNER NODES (SOLUTION 1)

By using the adjustable panel for columns, the inner corner bar and undersized panels.



FORMATION OF CORNER NODES (SOLUTION 2)

By using the outer corner (0+0) with aligner, the inner corner bar and undersized panels.

SPECIAL APPLICATIONS

Single sided castings with heights up to 8 m.



STRIPPING CORNER WITH THREAD

With this new product, it is possible to detach the whole core formwork from the concrete wall and lift it by crane to the next level.

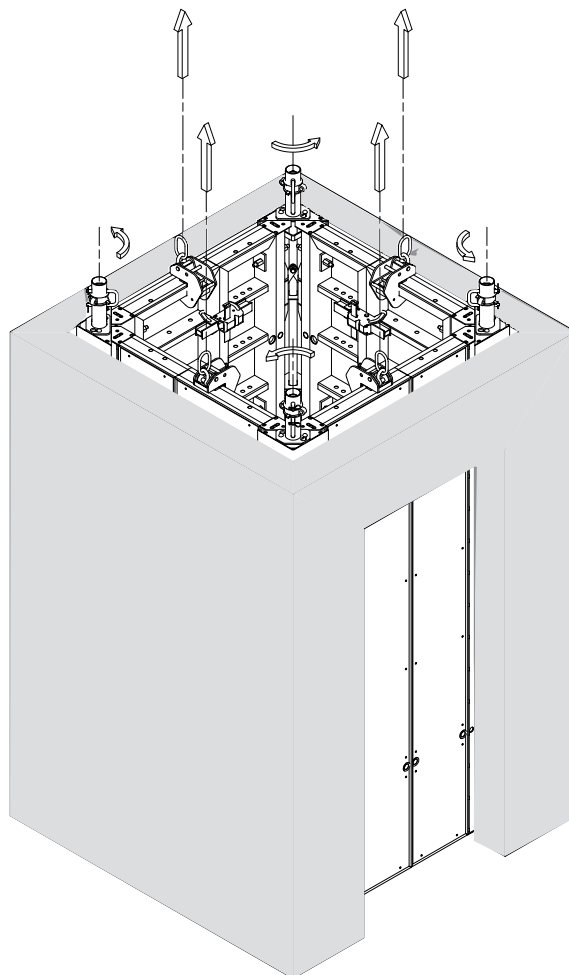
The main features of this product are:

- these corners can be stacked vertically together
- the striking of the complete formwork is localized at corner positions
- there is no negative impression on the concrete surface
- the whole inner formwork of the core can be lifted in one phase

They can be connected to the formwork panels with clamps or bolts, in any case the maximum pressure allowable on the formwork is guaranteed.

The new Stripping Corners with thread are available for all our systems of formworks (**MAGNUM 2.0**)

To act on the Stripping Corner with thread, you only need a tie-rod 15mm connected to one of the holes in the threaded nut. Rotating the spindle nut clockwise or anti-clockwise, the Stripping Corner will close or open the formwork unit.



CHARACTERISTICS OF MATERIALS

To ensure high standards of quality and durability, the steel frame is hot-dip galvanized.

The multi-layer panel is 18 mm thick with phenolic surface film protection (220 g/m²). It consists of 11 layers of birch and has no moisture absorption when panel is protected. The edges are protected with paint and it can be used up to 100 times per side.

The **MAGNUM 2.0** formwork system has been designed and manufactured in factories of **Pilosio** according to **prEN15113-1/206** "Vertical formwork - Part 1 performance requirements, general design and assessment".

| TECHNICAL CHARACTERISTICS | Panel 240x300 | Panel 120x300 |
|--|---|---|
| Reinforced surface m ² | 7,2 | 3,6 |
| Connecting accessories | 2 MAGNUM 2.0 clamps | 2 MAGNUM 2.0 clamps |
| Threaded tie rods | 4 | 2 |
| Incidence of tie rods per m ² | 1 each 1,8 m ² | 1 each 1,8 m ² |
| Multi-layered characteristics | 18 mm - 13 ply-birch – 220 g/m ² | 18 mm - 13 ply-birch – 220 g/m ² |
| Use per multi-layered side | 100 | 100 |
| Element weight kg | 404 | 186 |
| Incidence kg/m ² | 57,08 | 51,66 |
| Spical panel for pillars | YES | YES |

CONSUMABLE MATERIALS

| | | |
|-------------------|---|---|
| PVC caps | 0 | 2 |
| PVC spacers | 4 | 2 |
| PVC conic spacers | 8 | 4 |