builtouild

FORMWORKS



MAGNUM

7 PILOSIO





MAGNUM

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

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 formworks belong to class 7 according to prEN15113-1.

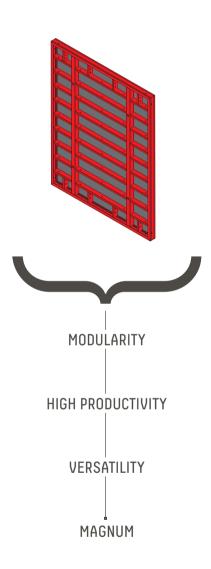
The maximum resistance to pressures of concrete casting is 60 kN/m² for the base version and 100 kN/m² for the reinforced version.





Pennsylvania USA





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 (411 kg) with features that allow applications up to 60/80 kN/m² for the reinforced panel
- high productivity of the large dimension panel with a surface of 7.2 m²
- \bullet 1 tie rod every 1.8 $\mbox{m}^2,$ 1 connection clamp every 3.6 $\mbox{m}^2,$ bar passage with conical bushing
- possibility of casting with "Self Compacting Concrete" cement
- the MAGNUM 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 (angular hinges, service brackets, panel sealing, support brackets, contrast beams)
- 3 different options to reinforce the corner nodes according to the needs of the site

CHARACTERISTICS

MAGNUM 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.

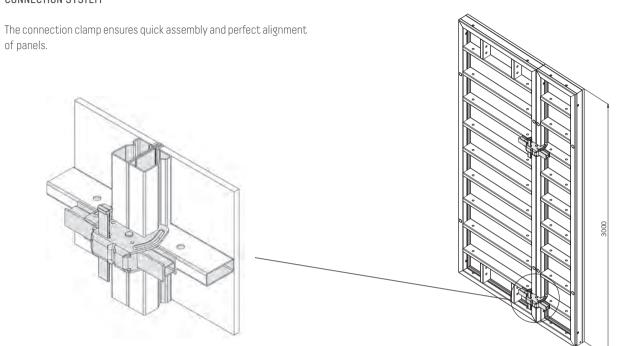
PANEL SIZES

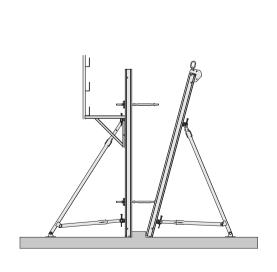
H 300 cm	H 150 cm	adjustable panel for pillars
240x300	120x150	100x300
240x300 reinforced	100x150	100x150
120x300	90x150	
100x300	80x150	
90x300	70x150	
80x300	60x150	
70x300	50x150	
60x300	40x150	
50x300	30x150	
40x300		
30x300		



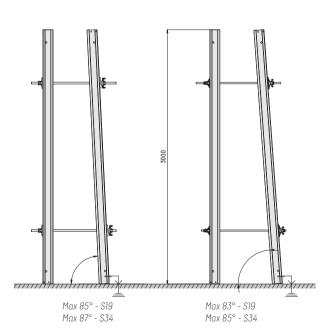


CONNECTION SYSTEM





Formwork installation.

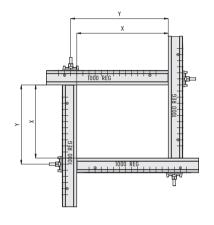


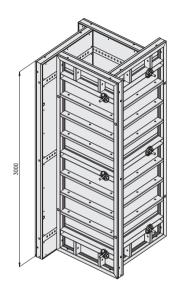
Walls, inclined up to 7° compared with the vertical line can be carried out.

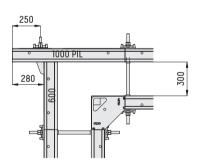
ACCESSORIES

Panels for casting of pillars adjustable from 20 cm to 85 cm every 5 cm.

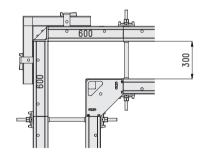
Х	Υ
200	250
250	300
300	350
350	400
400	450
450	500
500	550
550	600
600	650
650	700
700	750
750	800
850	900







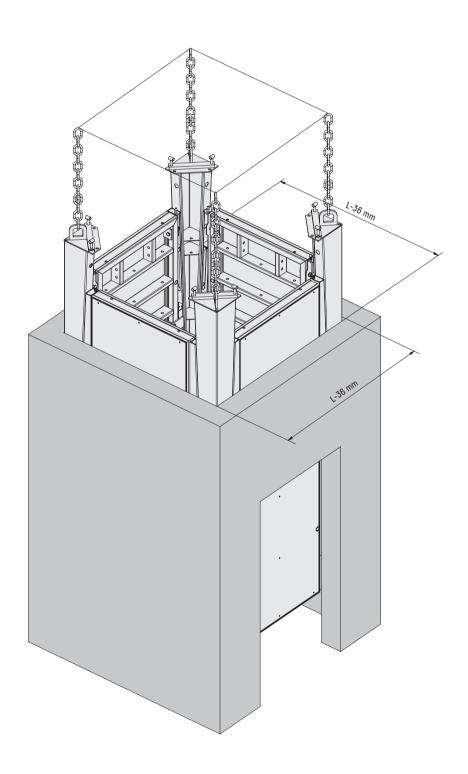
FORMATION OF CORNER NODES (SOLUTION 1)By using the adjustable panel for pillars, the internal angle bar and undersized panels.



FORMATION OF CORNER NODES (SOLUTION 2) By using the external angle bar, the internal angle bar and undersized panels.



Lift well with dismantling conical angle bar. It is sufficient a single crane lift to dismantle in only one solution the complete internal formwork.



CHARACTERISTICS OF MATERIALS

To ensure high standards of quality and durability, the frame in high strength steel, after a process of degreasing and cleaning is painted by immersion and dried in the oven at 130°. The result is a frame highly resistant to abrasion and oxidation.

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 about 100 times per side. The weight is 11.35 kg/m².

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

TECHNICAL CHARACTERISTICS	Panel 240x300	Panel 120x300
Reinforced surface m ²	7,2	3,6
Connecting accessories	2 MAGNUM clamps	2 MAGNUM clamps
Threaded tie rods	4	2
Incidence of tie rods per m ²	1 each 1,8 m²	1 each 1,8 m²
Multi-layered characteristics	18 mm - 13 ply-birch – 220 g/m²	18 mm - 13 ply-birch – 220 g/m²
Use per multi-layered side	100	100
Element weight kg	404	186
Incidence kg/m²	57,08	51,66
Manual handling	NO	NO
Spacial panel for pillars	YES	YES
Consumable materials		
PVC caps	0	2
PVC spacers	4	2
PVC conic spacers	8	4

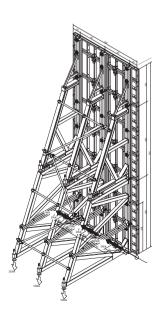




SPECIAL APPLICATIONS

Single sided castings with heights from 2 to 7.6 m.



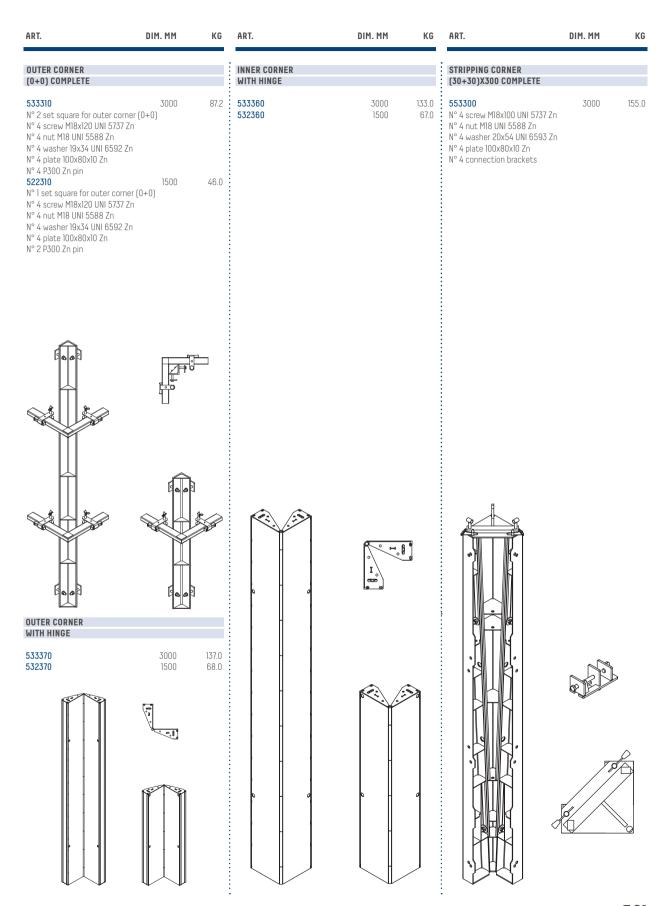


Barcellona, Spain.





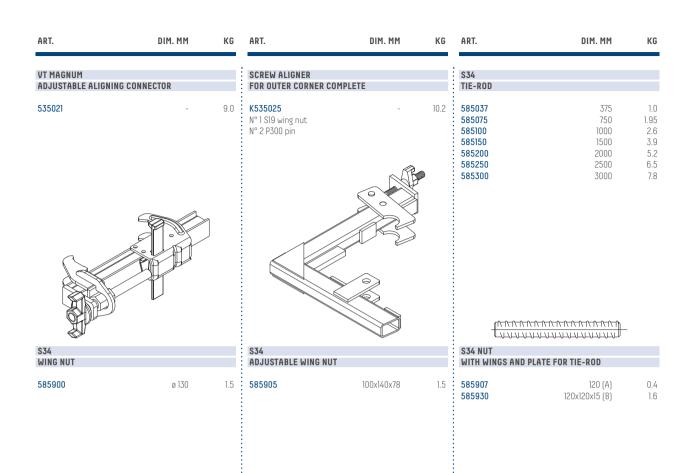
DIM. MM ART. KG ART. DIM. MM KG ART. DIM. MM KG PANEL PANEL PANEL TYPE 1 OF 120X300 OF 90X300 186.0 533240 411.0 533120 533090 147.0 2400x3000 1200x3000 900x3000 2400x3000 443.0 reinforced panel (pressure 100 kN/m²) PANEL ADJUSTABLE PANEL INNER CORNER H= 300 (FOR COLUMNS AND CORNERS) (30+30) 533180 (on demand) 1800x3000 297.0 533101 1000x3000 186.0 533356 3000 120.8 533100 1000x3000 157.0 532101 1000x1500 103.0 532356 1500 62.0 533080 800x3000 1160 533070 700x3000 106.0 533060 533050 600x3000 98.0 500x3000 85.0 533040 400x3000 75.0 533030 300x3000 64.0 PANEL H= 150 532120 1200x1500 0.88 532100 1000x1500 78.0 532090 900x1500 72.0 65.0 58.0 532080 800x1500 532070 700x1500 532060 600x1500 51.0 532050 500x1500 45.0 532040 400x1500 40.0 532030 300x1500 33.0







ART.	DIM. MM	KG	ART.	DIM. MM	KG	ART.	DIM. MM	KG
INFILL BAR			STRIPPING FILLER			INFILL PANEL COMPLETE		
534005 534010 532505 532510	50x3000 100x3000 50x1500 100x1500	24.0 47.0 11.8 24.0	534015	100x3000	50.0	534040 N° 1 tube 50x4 L= 450 N° 1 S19 wing nut 532540	400x3000 400x1500	55.0 29.6
						N°1 tube 50x4 L= 450 N°1 S19 wing nut		
"U" BEAM			ALIGNING DEVICE COMPLETE			MAGNUM ALIGNING CONNECTOR		
554042	400	3.5	535030 N° 2 P300 pin N° 2 safety split pin of 3	-	16.5	505010	-	5.3
	0							





534			
NUT			
585910		-	0.3

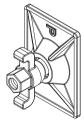


PLATE FOR NUT FOR COLUMNS		
585940	110x65x8	0.5

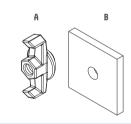


PLATE		
FOR TIE-ROD		
585935	120x80x15	1.1







TECHNICAL CHARACTERISTICS



