



METALUSA



FLAT FORMWORK
SYSTEM

COFIBER[®]

Light Flat Formwork

Simple, Rapid Assembly



Cofiber® is a light formwork system comprising a small number of components.

The primary beams are called assembly beams and the secondary beams are called support beams.

In addition to these two metallic elements there is a shoring rule and the tricot panel as a final element which is 27 mm thick.

The system encompasses other secondary elements to allow the flat formworking of solid slabs, fungiform slabs or CoCo slabs.

The components were developed to obtain highly productive light formwork which is easy to assemble and dismantle.

The metallic components are made of steel, welded and hot-dip galvanised.

Cofiber® light formwork is the practical, rational solution for rapid formwork for flat slabs with the highest productivity indices.

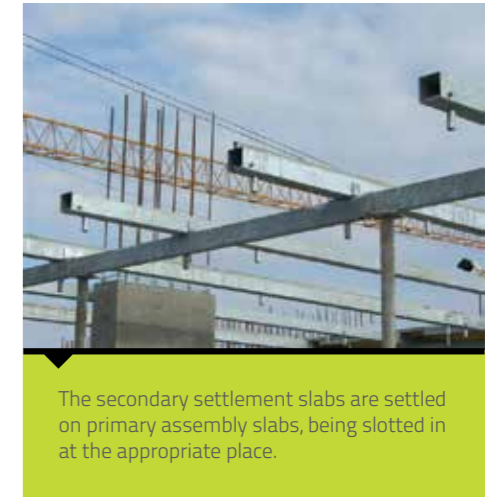
The assembly process is commenced by placing primary assembly beams with the aid of pillars and the support of metallic vertical alignments.

The secondary support slabs slot onto the assembly slabs.

The tricoat panels that are going to make up the formwork surface are installed next, separated at intervals by the shoring rules.

The finishes are carried out, having installed the side walls and the reinforcements.

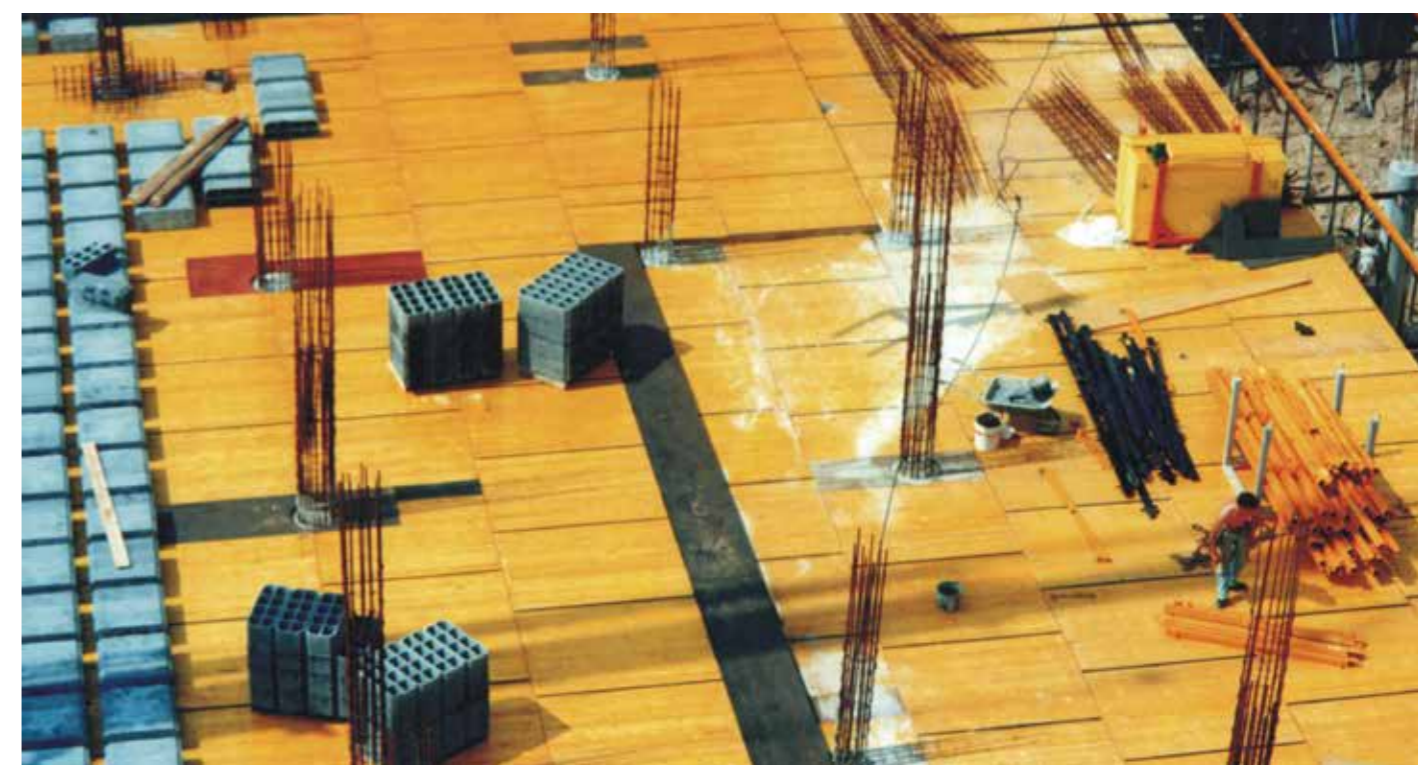
Finally, the concreting operations are carried out.



The secondary settlement slabs are settled on primary assembly slabs, being slotted in at the appropriate place.



The support beams are made by deploying state-of-the-art technology such as robotised welding and quick-tightening tools, thereby ensuring the highest quality standards.





THE COFIBER® IS A LIGHT SYSTEM WHICH IS EASY TO USE IN ASSEMBLY AND DISMANTLING.

IT REDUCES MANUAL CARPENTRY OPERATIONS AND THE NEED FOR LABOUR AS WELL AS GETTING RID OF ANY WOOD WASTAGE.



The advantages of Cofiber® flat formwork are associated with the speed and simplicity of assembly and dismantling which is conducive to high productivity gains.

It is a resistant, safe formwork structure.



The simplicity of the system is supported by the type of connection between the various elements as is the case of the beam which is endowed with a slot for the support rod situated on the rear part of the beam.

As the various elements are multipurpose, their use in other formwork situations is fostered.



The Cofiber® recoverable formwork system adapts easily to any type of flat slab, forming a solid, resistant structural unit.

Labour savings, the elimination of wastage and the immediate reuse of elements, lend a highly competitive edge.



Formwork Rotation Cycles

The rotation cycles for Cofiber® formwork components allow material whose formwork has been removed to be available for reuse three to five days (depending on the type of concrete) after concreting.

In a rotation cycle with 1+2 sets of post-shoring rules, 3 concreting operations are achieved in one month. With a rotation cycle of 1+3 one concreting operation is achieved per week.

At the end of the works at the works' site, after formwork removal, it is easy to identify the material recovered there.

An additional set of shoring blocks for formworking the 2nd floor as the one used on the 1st floor are retained at the shoring service.

In the 3rd week the formworking of the 3rd floor is carried out, applying the 3rd set of shoring blocks available.

In the 4th week the formworking of the 4th floor is carried out, applying the 4th set of shoring blocks available.

In the 5th week the 5th floor is formworked. On this floor, the material recovered on the previous floor is used as well as the shoring blocks that had been retained on the 1st floor in the slab shoring service.

Assuming the maximum operation of the rotation cycles, in other words, 1+3 in which one concreting operation is achieved per week, formworking works are started on the slab of the 1st floor in the first week so as to carry out concreting on the fifth day. Three days after concreting formwork removal is carried out of the assembly beams, of the support beams and of the wooden or "CoCo" panels so as to make available this equipment in the formworking of the second floor in the 2nd week.

The Cofiber® flat formworking system is prepared to respond effectively to any flat formwork situation using the same components.

To carry out recoverable formwork with "CoCos", only two additional elements are used: the recoverable blocks and the shoring blocks.

It allows the use of "CoCos" of any size.



Cofiber® Elements

	P020201	SETTING BEAM (FOR BEAMS)	Weight (Kg)
	P0202010800G	Setting beam of 0,80m galv.	4,20
	P0202032000G	Setting beam of 2m-PN2 galv.	10,43
	P0202033000G	Setting beam of 3m-PN2 galv.	15,61
	P0202034000G	Setting beam of 4m-PN2 galv.	20,40

	P020207	SIMPLE SUPPORTING BEAM	Weight (Kg)
	P0202072000G	Simple supporting beam of 2m galv.	11,14
	P0202073000G	Simple supporting beam of 3m galv.	16,40
	P0202074000G	Simple supporting beam of 4m galv.	21,40

	P020208	SUPPORTING BEAM WITH SEPARATOR	Weight (Kg)
	P0202082000G	Supporting beam with separator of 2m g	13,22
	P0202083000G	Supporting beam with separator of 3m g	19,43
	P0202084000G	Supporting beam with separator of 4m g	25,00

	P020212	PROPPING RULER FOR BEAM	Weight (Kg)
	P0202121000G	Ruler shoring p / 1,0m beam-PN2 galv.	5,80

	P020214	PROPPING RULER FOR FLAGSTONE - 2000	Weight (Kg)
	P0202141000G	Propping ruler for flagstone of 1 m-PN2 galv.	4,88
	P0202142000G	Propping ruler for flagstone of 2 m-PN2 galv.	7,00

	P020218	RULERS OF CLOSING - 2000	Weight (Kg)
	P0202181000G	Ruler closing 1.0m PN2 galv.	5,40
	P0202182000G	Ruler closure of 2 m-PN2 galv.	9,40

	P020215	PROPPING RULER FOR COCONUT	Weight (Kg)
	P0202151000G	Ruler brace w / coconuts 1.0m PN2 galv.	6,00
	P0202152000G	Ruler brace w / coconuts 2.0m PN2 galv.	20,50

	P020216	RECOVERABLE RULER FOR COCONUT	Weight (Kg)
	P0202161000G	Recoverable Ruler w / coconuts 1.0m PN2 galv.	6,00
	P0202162000G	Recoverable Ruler w / coconuts 2.0m PN2 galv.	11,00

	P020220	EXTENDING SIMPLE BARS	Weight (Kg)
	P0202201300G	Telescopic Beam simple 1,3m - galv.	7,00

	P020221	EXTENDING BARS WITH CONNECTOR	Weight (Kg)
	P0202211300G	C extensible bar / connector of 1,3m galv.	9,48

	P020223	FIXED CONNECTORS	Weight (Kg)
	P0202230001G	Fixed beam connector for galv.	1,75

	P020224	ROTARY BINDERS	Weight (Kg)
	P0202240001G	Galv. revolv. binder for beam	1,88

	P020226	FIXED CONNECTORS	Weight (Kg)
	P0202260002G	Connector rotary beam galv.	3,00

	N30I	PANELS TRICAPA	Weight (Kg)
	N30ID0500R001000	Tri-cover panels (Plywood) 100x500x27mm	6,77
	N30ID0500R002000	Tri-cover panels (Plywood) 2000x500x27mm	12,39



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