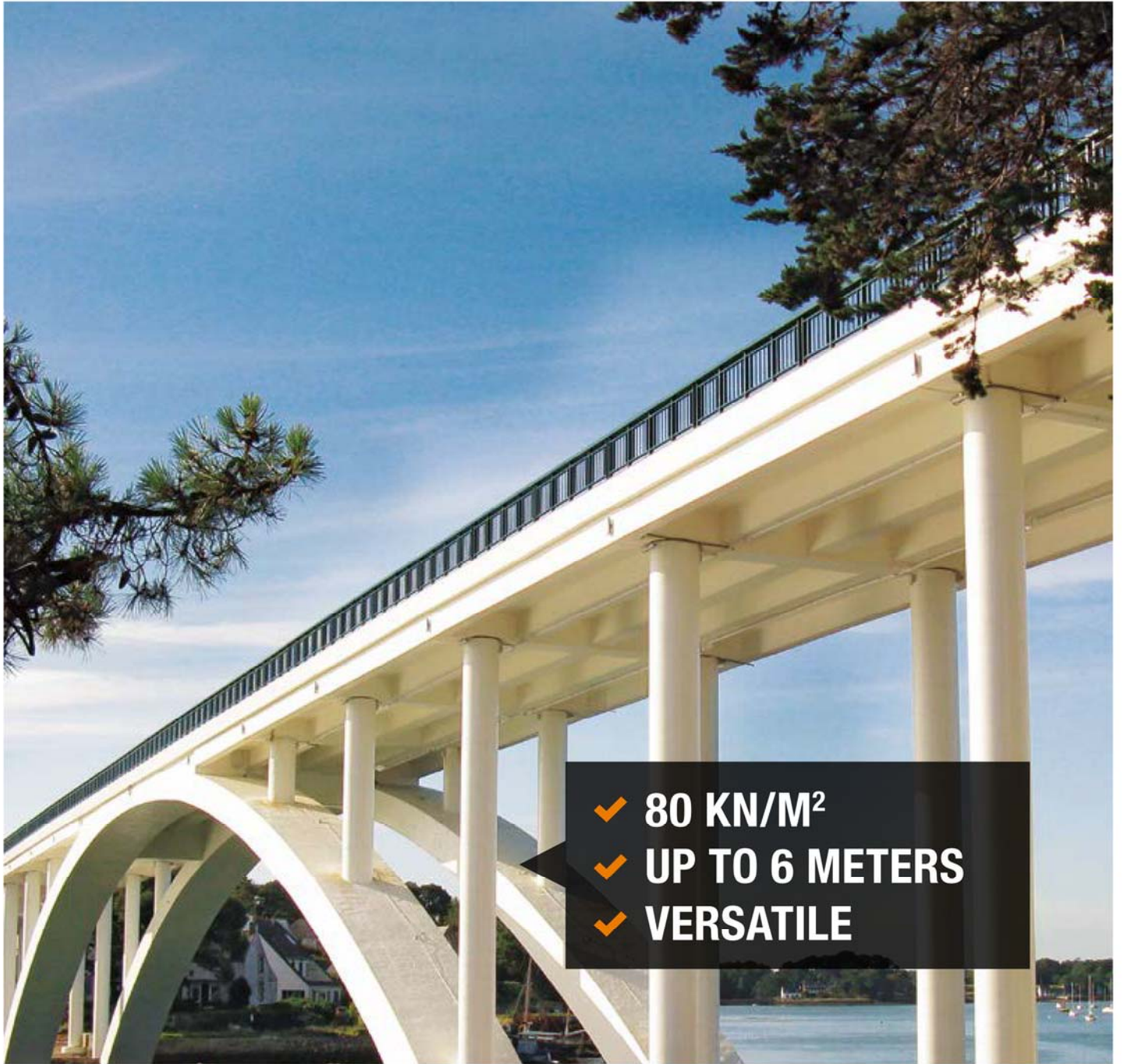


# GEOTUB



## CIRCULAR AND ELLIPTIC COLUMN FORMWORK



# GEOTUB

When the first Geotub formwork was launched in 2003 it was a revolution in the global market.

Surprisingly easy to use, featuring impressive performance and durability, Geotub was first in a brand new class of system formwork.

The Geotub formwork elements are engineered for maximum ease of use. Very light, no single element weighing more than 11 kg, Geotub requires no crane during forming and dismantling, Handling and logistics is equally simple.

Specially designed tabs on the outside of the curved panels hold them stacked one on another, so that the forms may be stored neatly both on site and in the material yard.



Element	Nominal sizes (mm)	Contact surface (m <sup>2</sup> )	Weight (kg)
<b>GEOTUB Ø 25</b>	Ø250 H605	0.237	2.95
<b>GEOTUB Ø 30</b>	Ø300 H605	0.285	3.67
<b>GEOTUB Ø 35</b>	Ø350 H605	0.332	4.09
<b>GEOTUB Ø 40</b>	Ø400 H605	0.380	4.56
<b>GEOTUB Ø 45</b>	Ø450 H605	0.427	4.93
<b>GEOTUB Ø 50</b>	Ø500 H605	0.475	5.54
<b>GEOTUB Ø 60</b>	Ø600 H605	0.570	6.44
<b>GEOTUB Ø 70</b>	Ø700 H605	0.665	7.53
<b>GEOTUB Ø 80</b>	Ø800 H605	0.760	8.64
<b>GEOTUB Ø 90</b>	Ø900 H605	0.855	9.48
<b>GEOTUB Ø 100</b>	Ø1000 H605	0.950	10.43



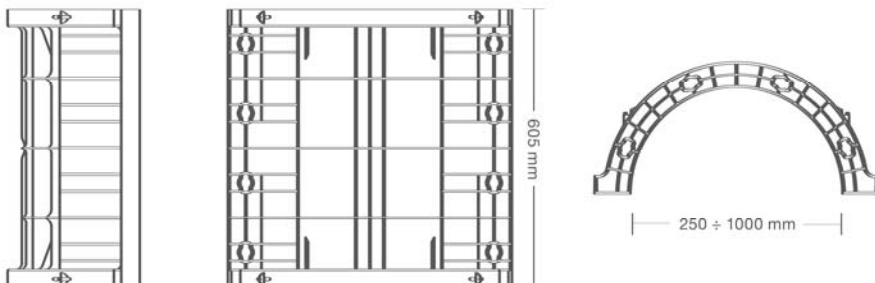
# GEOTUB POUR HEIGHTS

## GEOTUB CONFIGURATION OF A COLUMN

Geotub was probably one of the greatest formwork innovations launched in the market in year 2003: a circular column formwork that is light, simple to use, durable and available in a wide range of sizes.

These features make it even today the reference hand-held reusable circular column formwork on the world market. Available in a wide range of sizes, Geotub is useful in all kinds of sites, from residential to infrastructure building.

	○ Max pour height (mm)	○ No. Elements for max height	○ No. fixing handles per element	○ No. Handles for max height
GEOTUB Ø 25	6050	20	6	120
GEOTUB Ø 30	6050	20	6	120
GEOTUB Ø 35	6050	20	7	140
GEOTUB Ø 40	6050	20	7	140
GEOTUB Ø 45	4840	16	8	128
GEOTUB Ø 50	4840	16	8	128
GEOTUB Ø 60	4840	16	9	144
GEOTUB Ø 70	3630	12	10	120
GEOTUB Ø 80	3630	12	10	120
GEOTUB Ø 90	3630	12	11	132
GEOTUB Ø 100	3630	12	11	132



# CIRCULAR COLUMN FORMWORK

Geotub is the first reusable plastic formwork for the construction of round columns. It allows a fast and easy dismantling without using releasing agents. The panels are very light: they can be handled and installed by a single person.



The advantages of Geotub become particularly evident with larger column sizes: light, very easy to manage, durable, impeccable logistics, affordable. Geotub is an authentic all-rounder that makes forming circular columns a really simple task.

Striking a column formed with Geotub is literally a five-minute job. After concrete setting the formwork is not necessarily completely disassembled: it can much more simply be split in two half-shells which are much faster to handle and prepare for the next pour.

Half a Geotub column formwork can weigh as little as 15 kg, making handling really simple. The applications of Geotub are many:

**CIRCULAR COLUMNS AND POSTS**

**ELLIPTIC COLUMNS**

**POST- AND MAST-FOUNDATIONS**

**BRIDGE PILLARS**

**COLUMN REPAIR**

**COLUMN ENLARGEMENT**





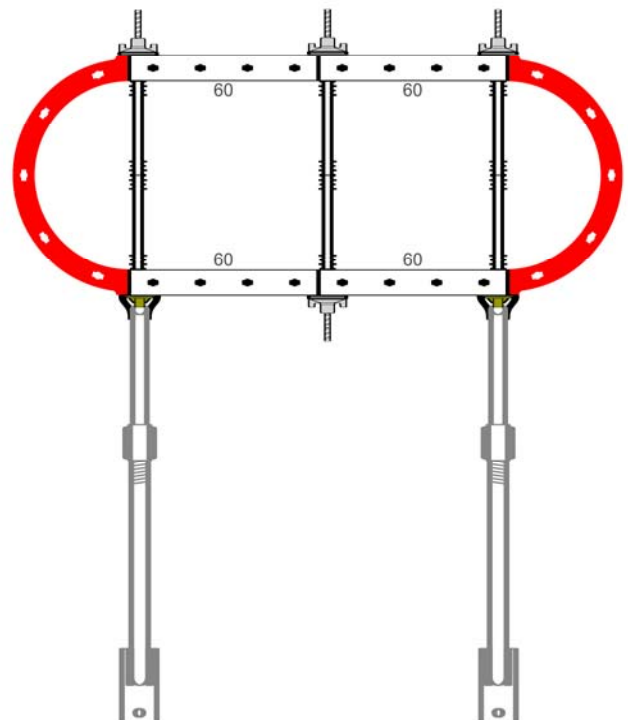
# ELLIPTIC COLUMNS

Most of the Geoplast formwork panels share the same module and different systems are compatible with one another. Geopanel and the Geotub circular column formwork work together very efficiently to produce elliptic columns.



Elliptic columns are particularly useful in underground and multi-storey car parks as they improve visibility and reduce the risk of vehicle damage during manoeuvres.

As the Geoplast elliptic column formwork is composed by off-the-shelf components it is very affordable compared to custom-fabricated steel columns, and the single formwork elements will be much more easily used in future applications.





# MARINE SOLUTIONS

As all Geoplast formwork, Geotub is particularly suitable when working in presence of water, which can make working conditions more difficult and complicated. In some cases Geotub is the only possible solution, since it is made of ABS and is not affected by water or chlorides.



# BRIDGE BUILDING

Bridges are built for roads to fly over obstacles, which means that quite often formwork must be deployed on rough or densely built-up terrain. Erecting a tower crane is often impossible, so a light hand-held formwork capable of producing relatively large diameters becomes a very interesting and productive tool.





# COLUMN REPAIR AND ENLARGEMENT

The repair or enlargement of existing columns is a relatively frequent event. In such cases forming with Geotub is just as straightforward as the production of new columns as the formwork panels are simply assembled around the object to be jacketed with new concrete.



There are different reasons for reworking concrete columns, the main ones being concrete and rebar replacement following weathering and aging, accident repair, increase of its structural capability, jacketing of metal columns to increase fire resistance. Damaged columns may lose their ability to support the axial dead load, live load, and horizontal load. Such events must be avoided at all cost, especially in the case of infrastructures and public buildings.

Very many column repair jobs are constrained by physical obstacles such as the presence of an existing beam or roof slab above the column, or location within a building or in a hostile environment (drops, cliffs, running water or else). Such situations set drastic limits to the kind of formwork that can be used, often forcing compromises on productivity, surface quality of the concrete, or both. Given its low weight, reliability and practicality of use, Geotub is perfect for column repair and enlargement: it is light, precise, easy to handle and produces an excellent concrete finish.





# ELECTRICAL GRID PYLON FOUNDATIONS

Geotub is particularly suited for the construction of foundations for electricity pylons: this kind of application consists of a series of small construction sites, often in remote or scarcely accessible locations.

The low weight and ease of use make it very simple to handle and transport the Geotub forms from one site to another.



# PRECAST COLUMNS

Geotub is ideal for the off-site mass production of identical columns: strong and durable, it produces a very smooth concrete finish.

Additionally, its handy size and weight make it easy to use even within buildings, without any complicated or potentially hazardous logistic process.

