

PLAKATUBE

Disposable formwork for round columns

REF 04.11.01 - Version V01 - 12/08/2020



Description



The PLAKATUBE is a round shaped disposable formwork designed for column diameters from 15 to 120 cm with a standard length of 3 or 4 meters. Other lengths are available on request.

The external skin of the PLAKATUBE is made of composite material KAP (Kraft, Aluminum and Polyethylene).

Two versions of inside finishing are available.

- The “smooth” version : the smooth finish is obtained by an additional plastic sheet taped inside the tube.
- The “spiral” version : the spiral finish is obtained by an internal sheet made out of Kraft material.

Without these inside finishing, the surface of the tube will be rough, with the risk that the concrete sticks to the formwork (raw finish only available on request).

The correct positioning of the formwork PLAKATUBE can be helped by using the head and base collars.

Application Fields

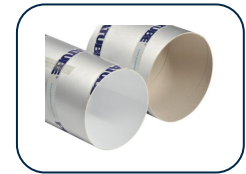
PLAKATUBE is a disposable formwork for round concrete columns. This type of formwork is ideal to cast multiple columns at the same time.

Properties

- Resistant to moisture
- Light and therefore easy to handle
- Quick and precise positioning with the head and base collars
- Easy to remove with the removal wire
- Delivered to size on the building site (from \varnothing 15 to 120 cm)
- Length easy to adjust at the building site if necessary
- No removal products required
- Once removed, the formwork can be replaced and used as protection until the construction ends

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Dimensions

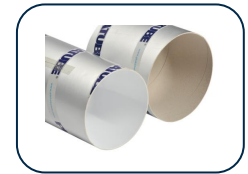
Material dimensions				
DISPOSABLE FORMWORK FOR CIRCULAR COLUMNS "SPIRAL"				
	Code	Diameter	L max	Kg / m
	TUBB015(Lmm)	15	4.00	0.90
	TUBB020(Lmm)	20	9.00	1.20
	TUBB025(Lmm)	25	9.00	1.70
	TUBB030(Lmm)	30	9.00	2.10
	TUBB035(Lmm)	35	9.00	2.80
	TUBB040(Lmm)	40	9.00	3.60
	TUBB045(Lmm)	45	9.00	4.00
	TUBB050(Lmm)	50	9.00	5.00
	TUBB055(Lmm)	55	7.00	5.50
	TUBB060(Lmm)	60	7.00	6.50
	TUBB065(Lmm)	65	7.00	7.00
	TUBB070(Lmm)	70	7.00	7.70
	TUBB080(Lmm)	80	7.00	9.60
DISPOSABLE FORMWORK FOR CIRCULAR COLUMNS "SMOOTH"				
	Code	Diameter	L max	Kg / m
	TUB015(Lmm)	15	4.00	1.25
	TUB020(Lmm)	20	9.00	1.67
	TUB025(Lmm)	25	9.00	2.00
	TUB030(Lmm)	30	9.00	2.34
	TUB035(Lmm)	35	9.00	3.34
	TUB040(Lmm)	40	9.00	4.34
	TUB045(Lmm)	45	9.00	4.67
	TUB050(Lmm)	50	9.00	5.67
	TUB055(Lmm)	55	7.00	6.67
	TUB060(Lmm)	60	7.00	7.67
	TUB065(Lmm)	65	7.00	8.60
	TUB070(Lmm)	70	7.00	9.50
	TUB080(Lmm)	80	7.00	11.50
	TUB090(Lmm)	90	4.00	12.90
	TUB100(Lmm)	100	3.00	15.40
TUB110(Lmm)	110	3.00	16.25	
TUB120(Lmm)	120	3.00	17.00	
BASE COLLAR FOR CIRCULAR COLUMN				
	Code	Diameter	Section (mm)	Kg / 1
	TUBCARPR020	20	310x310	0.78
	TUBCARPR025	25	390x390	1.24
	TUBCARPR030	30	410x410	1.16
	TUBCARPR035	35	495x495	1.74
	TUBCARPR040	40	560x560	2.26
	TUBCARPR045	45		
	TUBCARPR050	50	620x620	2.24
	TUBCARPR055	55		
	TUBCARPR060	60	760x760	3.42
	TUBCARPR065	65		
	TUBCARPR070	70		
TUBCARPR080	80			


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HEAD COLLAR FOR CIRCULAR COLUMN				
	Code	Diameter	Section (mm)	Kg / m
	TUBCARTR020	20	310x310	1.70
	TUBCARTR025	25	390x390	2.19
	TUBCARTR030	30	410x410	2.27
	TUBCARTR035	35	495x495	3.05
	TUBCARTR040	40	560x560	3.81
	TUBCARTR045	45		
	TUBCARTR050	50	620x620	4.17
	TUBCARTR055	55		
	TUBCARTR060	60	760x760	6.65
	TUBCARTR065	65		
	TUBCARTR070	70		
	TUBCARTR080	80		

Installation

How to shorten the formwork (If the formwork needs to be cut to size on the building site)

- Mark correct length off on the column
- Remove the removal wire from the part to be sawn off
- Saw through the column where marked and avoid waste getting between the internal foil and the formwork
- Fix the internal foil to the ends of the formwork again with adhesive tape (start sticking the adhesive tape on the inside of the formwork and finish on the outside)
- Attach the removal wire again with adhesive tape
- Check that the adhesive tape is still in place along the entire length of the foil.

The supplier cannot be held responsible for any faults resulting from an adjustment made on the building site.

Formwork Installation

- position the column so that the label is positioned at the head of the column (1). The cutting wire will be automatically in the right direction.
- use the head (2) and base (3) collars for a quick and precise positioning of the formwork.



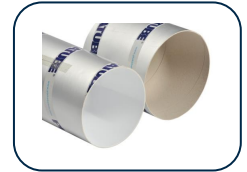
- For heights up to 4 meters, and if these installation instructions are carefully followed, it is not necessary to add an intermediate locking plate.

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Casting the concrete

- Vibrating the concrete at the middle of the column during casting is important (be careful not to damage the inner foil in the formwork)
- Make always use of a pouring chute for the concreting of the column. The concrete fall will never be higher than 1m.
- The recommended maximal casting speed (with regard to the type of concrete used) is given in the following table :

Diameter (mm)	Recommended maximal concrete rate (m/h)
150 to 350	6
400	5
450	4
500 to 800	3
850 to 1000	2

Removing the formwork

- Attach the end of the removal wire to a hammer, pull slowly at an angle of 30° from the column and continue to roll up the wire (do not pull wire with bare hands).
- Remove the formwork around the column
- The internal foil (smooth version) can then be easily removed
- It is not necessary to remove the formwork immediately after the concrete has hardened. However the best result is usually obtained when the formwork is removed after 24 hours.
- Removing the formwork after this period is recommended so that it can be determined that the column has been cast in accordance with best practices.
- Once removed, the formwork can be replaced around the column and used as protection until construction ends.