

Tubbox[®] Formwork Tube



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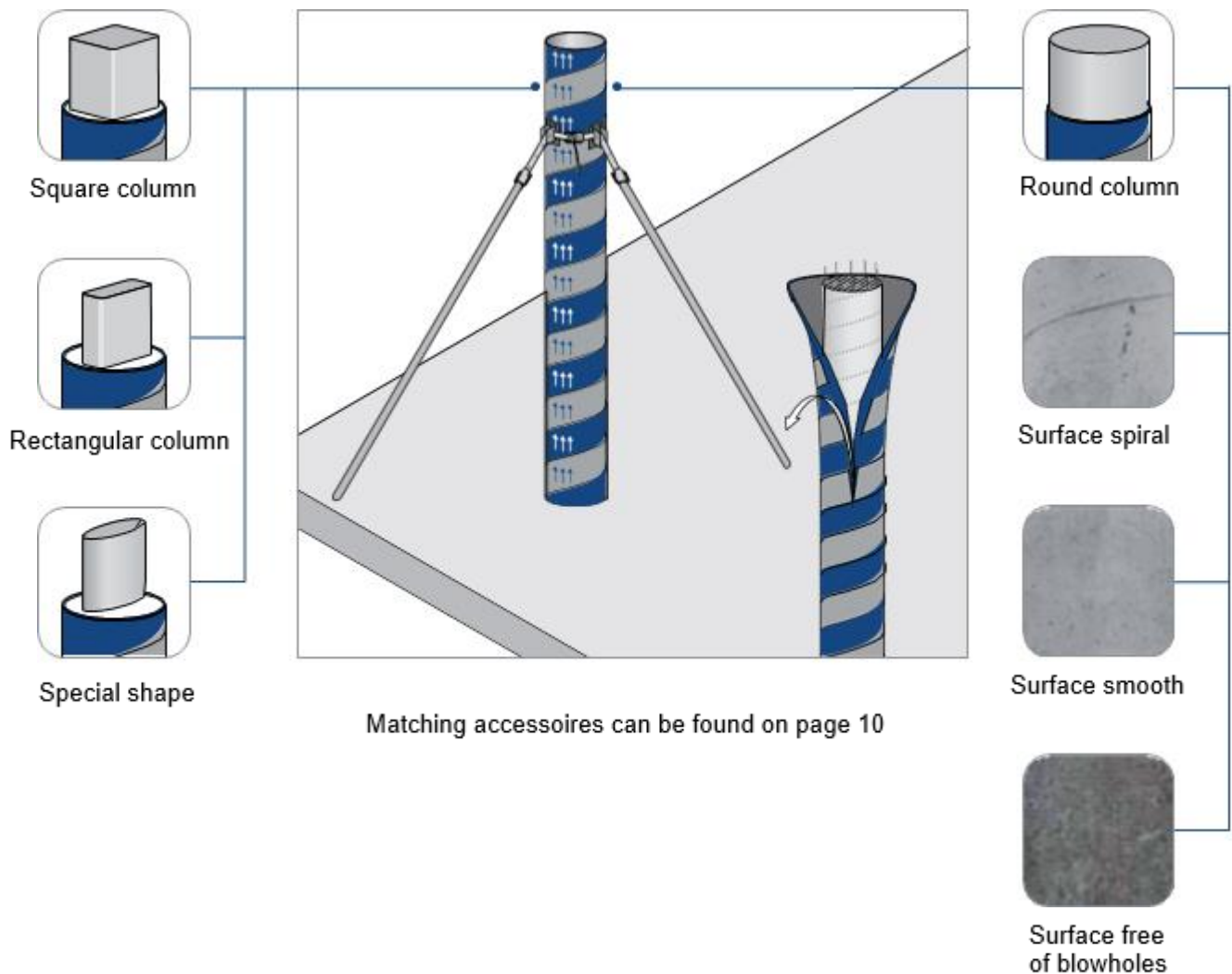
TUBBOX® FORMWORK TUBES

Tubbox® formwork tubes, for the production of concrete columns in round, square or rectangular shapes and with three different surface qualities. Compared to conventional column formwork, this efficient and cost-effective solution saves you valuable time and resources.

The tubes are equipped with a practical rip cord for quick and effortless removal.

Your advantages

- Rapid construction progress thanks to quick erection and formwork removal
- Extremely flexible in the design of a wide variety of concrete shapes
- Lightweight and easy to handle during transport and assembly
- No time or costs for cleaning, storage and return transport
- Quick and easy disposal of disposable formwork tubes
- A single concreting date possible for many columns
- No concrete release agent required



Tubbox® formwork tubes help you meet quality standards, deadlines and the requirements of building contractors.

NOUR PRODUCT OPTIONS – FIND YOUR IDEAL SOLUTION!

Tubbox® formwork tube surface spiral

For round columns

With Tubbox® spiral formwork tubes, you can create a smooth concrete surface with a subtle imprint of the spiral winding structure of the tube. The integrated tear-off strip makes it easy to remove the formwork tubes.

The formwork tubes are dimensionally stable and protected against driving rain.

Consisting of:

Grey board / Kraft paper
Water glass adhesive



Tubbox® formwork tube with smooth surface

For round columns

The additional plastic insert in the Tubbox® formwork tubes in the 'smooth' version allows you to achieve a very smooth concrete surface, enabling you to achieve exposed concrete quality SHK3 (please note the information in the DBV information sheet on exposed concrete). The integrated rip cord makes it easy to remove the formwork tubes. The formwork tubes are dimensionally stable and protected against driving rain.

Consisting of:

Grey board / Kraft paper
PVC film
Water glass adhesive



Tubbox® formwork tubes in various designs offer you a cost-effective solution for high-quality and aesthetic supports.

Tubbox® formwork tube surface free of blowholes

For round columns

With Tubbox® formwork tubes, you can achieve a virtually void-free surface and increased surface hardness of the edge concrete layer. This is made possible by the Zemdrain® formwork membrane. During concreting and the hardening process, water and air are effectively removed, making the edge concrete layer denser, harder and virtually void-free.

The integrated pull cord makes it easy to remove the formwork tubes. The formwork tubes are dimensionally stable and protected against driving rain.

Consisting of:

- Grey board / Kraft paper
- Fleece made of polypropylene fibers
- Water glass adhesive



Tubbox® square formwork tube

For square and rectangular supports

Thanks to special inserts made of coated panels in the Tubbox® 'square' formwork tubes, you can create supports with the highest surface quality and a square or rectangular cross-section. The support form comes with chamfered edges as standard. We are happy to manufacture special designs on request.

Uniform chamfer width for all formwork tube dimensions – simple, precise and reliable for planning. No variations, no uncertainties: with us, you always get the same exact chamfer width.

Consisting of:

- Grey board / Kraft paper
- Expanded polystyrene (EPS)
- Chipboard
- Water glass adhesive



Your product selection – order your ideal solution!

Tubbox® formwork for spiral round columns

Formwork tubes with an internal diameter of 150 – 1000 mm.
Standard lengths are 2,50 – 6,00 m.

Different lengths and diameters available on request.



Item no.	Inner diameter mm	Outer diameter mm	Concret m³/m	Weight kg/m
610.srs150...	150	156	0,019	1,45
610.srs200...	200	206	0,033	1,89
610.srs240...	240	246	0,048	2,20
610.srs250...	250	256	0,052	2,39
610.srs300...	300	306	0,074	2,67
610.srs350...	350	356	0,101	3,98
610.srs400...	400	408	0,132	4,67
610.srs450...	450	458	0,167	5,63
610.srs500...	500	509	0,206	6,87
610.srs550...	550	562	0,249	7,80
610.srs600...	600	612	0,297	9,34
610.srs650...	650	662	0,348	10,79
610.srs700...	700	712	0,404	12,11
610.srs800...	800	813	0,528	17,00
610.srs1000...	1000	1014	0,825	23,44

... = Length in mm

* Tubbox® formwork tubes are characterised by their high resistance to fresh concrete pressure. The required strength is achieved approximately 3 days after manufacture. To reduce the risk of damage during transport or use, we recommend that you take this period into account when planning your material requirements. The maximum length is 6,0 m for pipe diameters > 600 mm and 8,0 m for pipe diameters ≤ 600 mm. If the maximum length is exceeded, a split version is offered. The necessary splicing of the formwork tubes must be carried out on site.

* For lengths over 6 m, a surcharge of 10% will be applied. Lengths under 2,5 m: price on request. Length tolerance ± 10 mm.

Tubbox® formwork for smooth circular columns

Smooth formwork tubes with a plastic inner liner for the highest visual concrete requirements. The vertical joint of the inner liner is slightly visible in the concrete. Formwork tubes with a diameter of 650 mm or more have two vertical joints.

Inner diameter from 150 - 1000 mm.

Standard lengths are 2,50 - 6,00 m.

Different lengths and diameters available on request.



Item no.	Inner diameter mm	Outer diameter mm	Concret m³/m	Weight kg/m
620.srg150...	150	156	0,019	1,71
620.srg200...	200	206	0,033	2,24
620.srg240...	240	246	0,048	2,62
620.srg250...	250	256	0,052	2,83
620.srg300...	300	306	0,074	3,19
620.srg350...	350	356	0,101	4,59
620.srg400...	400	408	0,132	5,37
620.srg450...	450	458	0,167	6,42
620.srg500...	500	509	0,206	7,74
620.srg550...	550	562	0,249	8,76
620.srg600...	600	612	0,297	10,39
620.srg650...	650	662	0,348	11,92
620.srg700...	700	712	0,404	13,33
620.srg800...	800	813	0,528	18,40
620.srg1000...	1000	1014	0,825	25,19

... = Length in mm

* Tubbox® formwork tubes are characterised by their high resistance to fresh concrete pressure. The required strength is achieved approximately 3 days after manufacture. To reduce the risk of damage during transport or use, we recommend that you take this period into account when planning your material requirements. The maximum length is 6,0 m for a pipe diameter > 600 mm and 8,0 m for a pipe diameter ≤ 600 mm. If the maximum length is exceeded, a split version is offered. The necessary splicing of the formwork tubes must be carried out on site.

* For lengths over 6 m, a surcharge of 10% will be applied. Lengths under 2,5 m: price on request. Length tolerance ± 10 mm.

Tubbox® formwork for round columns, void-free

The concrete edge layer offers exceptionally high surface hardness and is virtually void-free.

Further details can be found in the information on Zemdrain® (page 5).
The overlap of the Zemdrain® insert is visible.

Inner diameter from 150 - 1000 mm.
Standard lengths are 2,50 - 6,00 m.

Different lengths and diameters available on request.



Item no.	Inner diameter mm	Outer diameter mm	Concret m³/m	Weight kg/m
630.srl150...	150	156	0,019	1,61
630.srl200...	200	206	0,033	2,11
630.srl240...	240	246	0,048	2,46
630.srl250...	250	256	0,052	2,66
630.srl300...	300	306	0,074	2,99
630.srl350...	350	356	0,101	4,36
630.srl400...	400	408	0,132	5,10
630.srl450...	450	458	0,167	6,12
630.srl500...	500	509	0,206	7,41
630.srl550...	550	562	0,249	8,40
630.srl600...	600	612	0,297	9,99
630.srl650...	650	662	0,348	11,49
630.srl700...	700	712	0,404	12,87
630.srl800...	800	813	0,528	17,87
630.srl1000...	1000	1014	0,825	24,52

... = Length in mm

* Tubbox® formwork tubes are characterised by their high resistance to fresh concrete pressure. The required strength is achieved approximately 3 days after manufacture. To reduce the risk of damage during transport or use, we recommend that you take this period into account when planning your material requirements. The maximum length is 6,0 m for a pipe diameter > 600 mm and 8,0 m for a pipe diameter ≤ 600 mm. If the maximum length is exceeded, a split version is offered. The necessary splicing of the formwork tubes must be carried out on site.

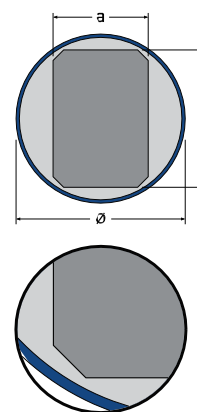
* For lengths over 6 m, a surcharge of 10% will be applied. Lengths under 2,5 m: price on request. Length tolerance ± 10 mm.

Tubbox® formwork for rectangular columns

Thanks to the special insert made of coated chipboard, you achieve a particularly high surface quality and precise shaping, which ensures durable and aesthetically appealing rectangular supports. The corners are chamfered, resulting in sharp, clear edges. Chamfer width 22 mm.

Standard lengths are 2,50 – 5,00 m. A wide range of dimensions from 175 x 240 mm to 500 x 500 mm are possible. For lengths over 5,00 m, the chipboard panels are butt-jointed, i.e. there is a horizontal panel joint.

Different dimensions and lengths available on request.

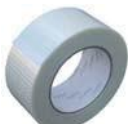


Description	Item No.	Dimension a x b mm	Outer diameter of blank mm	Concrete m ³ /m	Weight kg/m
Square	640.srq150150...	150 x 150	246	0,024	3,68
	640.srq200200...	200 x 200	316	0,042	5,08
	640.srq240240...	240 x 240	376	0,060	7,33
	640.srq250250...	250 x 250	391	0,066	7,34
	640.srq300300...	300 x 300	458	0,095	8,63
	640.srq350350...	350 x 350	562	0,129	12,15
	640.srq360360...	360 x 360	562	0,136	12,12
	640.srq400400...	400 x 400	612	0,168	13,80
	640.srq450450...	450 x 450	712	0,213	18,53
	640.srq500500...	500 x 500	813	0,263	21,00
Rectangular	650.srr175240...	175 x 240	356	0,044	5,39
	650.srr200240...	200 x 240	356	0,050	5,40
	650.srr200250...	200 x 250	356	0,053	6,74
	650.srr200300...	200 x 300	408	0,063	8,88
	650.srr200350...	200 x 350	458	0,074	8,94
	650.srr200400...	200 x 400	509	0,084	12,48
	650.srr240300...	240 x 300	458	0,076	8,85
	650.srr240350...	240 x 350	509	0,088	10,30
	650.srr240360...	240 x 360	509	0,091	10,30
	650.srr240365...	240 x 365	509	0,092	10,30
	650.srr240400...	240 x 400	509	0,101	10,32
	650.srr240450...	240 x 450	562	0,113	14,27
	650.srr240500...	240 x 500	612	0,126	16,53
	650.srr250300...	250 x 300	458	0,079	8,84
	650.srr250350...	250 x 350	509	0,092	10,28
	650.srr250400...	250 x 400	509	0,105	12,34
	650.srr250500...	250 x 500	612	0,131	16,48
	650.srr300350...	300 x 350	509	0,110	10,19
	650.srr300400...	300 x 400	562	0,126	12,20
	650.srr300450...	300 x 450	612	0,142	14,04
	650.srr300500...	300 x 500	662	0,158	16,24
	650.srr350400...	350 x 400	612	0,147	13,94
	650.srr400500...	400 x 500	712	0,210	18,58

... = Length in mm

Tubbox® support device (without straightening supports)

Ideal for vertical positioning and support of formwork tubes during concreting.

	Description	Item no.	Weight kg/piece
	Size I for formwork tube $\varnothing$ 200–600 mm Type fork (consisting of: 1 x tension strap with ratchet and fork piece, 1 x fork piece)	690.srzs200	1,67
	Size II for formwork tube $\varnothing$ > 600 mm, Fork type (consisting of: 1 x tensioning strap with ratchet and fork piece, 1 x fork piece)	690.srzs600	1,88
	Additional fork piece for connecting a third support strut	690.srzszh	0,56
	Size II for formwork tube $\varnothing$ > 600 mm, Type Threaded rod (consisting of: 1 x tensioning strap with ratchet and threaded steel piece, 1 x threaded steel piece)	690.srzsge200	1,70
	Size II for formwork tube $\varnothing$ > 600 mm (Consists of: 1 x tension strap with ratchet and threaded steel piece, 1 x threaded steel piece)	690.srzsge600	1,91
	Additional threaded steel piece for connecting a third support strut	690.srzsgezh	0,54
	Fabric tape 50 mm, length 50 m	690.gb50	0,35

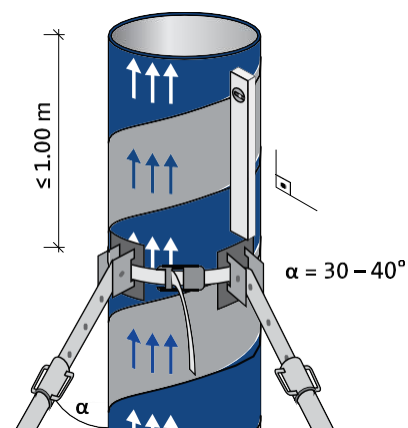
Please note:

The support device should be installed at a distance of $\leq 1,00$ m from the support head.

The formwork tubes are aligned using two tension- and pressure-resistant alignment supports.

The angle of the alignment support to the formwork tube shown in the adjacent sketch should be $30-40^\circ$.

The support device is attached to the formwork tube using a tension belt supplied. This may only be tightened to the extent that the sheets fit snugly. Otherwise, constriction may occur during concreting.



TECHNICAL APPLICATION NOTES

TRANSPORT

- Always support Tubbox® formwork tubes over a large area to avoid pressure points.
- Do not drive the forklift forks into the formwork tube.
- Protect Tubbox® formwork tubes against abrasive stress.
- Secure the Tubbox® formwork tube during transport.
- Store Tubbox® formwork tubes in a “void-free” design with the overlap of the insert facing downwards.
- Store Tubbox® formwork tubes in the “smooth” version with the foil joint of the insert facing downwards.



STORAGE

- Store Tubbox® formwork tubes vertically.
- Protect Tubbox® formwork tubes from direct sunlight, heat, rain, and moisture—do not place them in puddles.
- Protect Tubbox® formwork tubes against ground moisture and condensation—ensure adequate ventilation of the cover.
- Protect accidentally damaged surfaces from moisture by covering them with suitable adhesive tape.

INSTALLATION

- Remove all transport locks and internal stiffeners from the formwork tube before concreting.
- Set up the Tubbox® formwork tube with the arrow pointing upwards.
- Protect edges cut on site with suitable adhesive tape to protect against moisture.
- Do not place Tubbox® formwork tubes in puddles of water.
- Position on the foundation so that it is aligned and secure it with stop spacers or a wooden cross to be provided on site.
- The alignment triangles on Tubbox® formwork for rectangular or square columns are only intended for rough positioning.
- Align vertically on the ceiling side using the Tubbox® support device and the tension- and pressure-resistant support props provided on site, and secure against uplift.
- Distance between support devices: $\leq 1,00$ m
- The angle of the straightening support to the formwork tube should be $30\text{--}40^\circ$.
- For supports constructed on site, use large-area stops to avoid pressure marks.
- Spacers must not damage or deform the Tubbox® formwork tubes.
- Before and after concreting, check the centre line, vertical position and concreting height.
- When using a crane, additional safety devices must be provided at the end of the formwork tube.

ATTENTION: Protruding spacers and reinforcing bars damage the formwork. Rectangular or square column formwork

that is not installed in the axial direction must not be turned back against the resistance of the reinforcement or other resistance in order to avoid twisting or damaging the moulding inner part. When force is applied, the formwork is twisted relative to the axes.

CONCRETE WORK (RECOMMENDATION)

- Avoid free fall heights of concrete greater than 1,0 m in order to prevent segregation of the concrete.
- Pour and compact in sections of approx. 50 cm using a concrete pump or pouring pipe.
- Compaction only with internal vibrator.
- The pump hose or vibrator must not touch the inside of the formwork tube.
- Once all work has been completed, recompact, check the plumb line and dimensions.
- **Concrete pouring speed:**
 - $\varnothing \leq 450$ mm **6 m/hour**
 - $\varnothing > 450$ mm **3 m/hour**
 - Längen > 6,0 m **2 m/hour**

FORMWORK REMOVAL

- **After two days at the latest, pull the rip cord and remove the inner formwork skin from the concrete surface.**

The outer casing can be placed back around the support as protection.

- In the event of later formwork removal, no guarantee can be given for any formwork that may remain adhered or any changes to the concrete surface.
- Observe the prescribed curing times for all formwork removal work.

DISPOSAL

Formwork tubes are made of cardboard and a very small amount of plastic. Thermal recycling or disposal with old cardboard boxes is therefore possible without any problems for clean formwork tubes.

NOTE: This formwork tube was professionally manufactured in our production facility, comprehensively tested and released for delivery after confirmation that it was free of defects. Transport damage or other defects must be noted on the delivery documents upon receipt of the goods. Our warranty only covers defects that are noted on the delivery documents immediately upon arrival.

ATTENTION: Failure to observe these instructions will void the warranty.

These installation instructions are only recommendations. They do not replace the specialist knowledge required for installation. The instructions are always kept up to date with the latest technology and are constantly updated. Technical changes are therefore expressly reserved, even without prior notification of the customer. The currently valid version can be found at ruede.de. Our General Terms and Conditions of Sale also apply.



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Technical changes reserved