

Tubbox® Formwork tube

TECHNICAL APPLICATION INSTRUCTIONS

TRANSPORT

- Always support the Tubbox® formwork tube over a large area to avoid pressure points.
- Do not drive the forklift forks into the shuttering tube.
- Tubbox® Protect the shuttering tube against abrasive loads.
- Secure the Tubbox® formwork tube during transport.
- Tubbox® Store the "cavity-free" formwork tube version with the overlap of the insert facing downwards.
- Tubbox® Store the "Smooth" formwork tube version with the film joint of the insert facing downwards.



STORAGE

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

INSTALLATION

- Remove all transport locks and internal reinforcements from the formwork tube before concreting.
- Set up the Tubbox® formwork tube with the arrow pointing upwards.
- Protect edges cut on site against moisture with suitable adhesive tape.
- Do not place the Tubbox® formwork tubes in puddles of water.
- Place in the centre line on the foundation side and fix with stop spacers or a wooden cross to be fitted on site.
- The alignment triangles on Tubbox® formwork for rectangular props or square props are only used for rough positioning.
- Align the ceiling vertically with the Tubbox® support device and the tension and compression-resistant push-pull props provided on site and secure against uplift.
- Spacing of the support device: ≤ 1.00 m
- The angle of the alignment support to the formwork tube should be 30–40°.
- In the case of on-site supports, use large area stops to avoid pressure points.
- Spacers must not damage or displace the Tubbox® formwork tubes.
- Before and after concreting, check the centre distance, vertical position and concreting height.
- If a crane is used, additional safety devices must be provided on site at the end of the formwork tube.

CAUTION: Do not force formwork tubes over any reinforcement or spacers that may be bent too far. Protruding spacers and reinforcement bars will 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 shaping inner part. If force is used, the mould will be twisted in relation to the axes.

CONCRETING WORK (RECOMMENDATION)

- Avoid free fall heights of concrete greater than 1.0 m 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 casing tube.
- After completion of all work, recompact, check plumb and dimension.
- **Concreting speed:**

- $\varnothing \leq 450$ mm	6 m/hour.
- $\varnothing > 450$ mm	3 m/hour.
- Lengths > 6,0 m	2 m/hour

DEMOULDING WORK

- **After two days at the latest, pull the ripcord and detach the inner formwork facing from the concrete surface.**
The outer casing pipe can be placed around the support again as protection.
- In the event of subsequent demoulding, no guarantee is given for any adhering formwork or possible changes to the concrete surface.
- Observe the prescribed post-treatment times for all stripping work.

DISPOSAL

Formwork tubes are made of cardboard and a very small proportion of plastic. Thermal utilisation or disposal with old cardboard is therefore possible without any problems for clean shuttering tubes.

NOTE: This formwork tube was manufactured professionally in our production facility, comprehensively tested and released for delivery after confirmation of freedom from defects. Transport damage or other defects must be reported 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 invalidate any warranty claims.

These installation instructions can only be regarded as a recommendation. It does not replace the specialist knowledge required for installation. The instructions are always kept up to date with the latest technology and are constantly updated. We therefore expressly reserve the right to make technical changes, even without informing the customer in advance. The currently valid version can be found at ruede.de. Our General Terms and Conditions of Sale also apply.

