CAVITY PIPES

Prefabricated concrete elements - Anchoring Engineering

SHEATHS FOR POSTTENSIONING

Bridge construction - channels for the strand

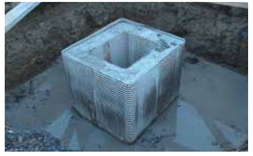
Application

It's not only the visible parts which represent up a building. Hidden in the interior, cavities, passages and canals are forming the specific character oft he concrete elements. Tubes forming channels for the strands to use as presrtessed concrete. Displacement pipes allow economic foundations, for bridge construction they can be used as „hollow blocks" in order to reduce the weight of buildings. Cavity pipes serve as vacant pipes for installation purposes.

VOID FORMING TUBE

Used as „hollow blocks" in order to reduce the weight of buildings

CASES - PERMANENT FORMWORK



„Blockfoundation"

FORMWORK

Wall and ceiling passages

MACHINE FOUNDATION / FORMWORK

Formwork for machine foundation

Shuttering System for Vessel construction

Company portrait

wbr Rohr- und Bauelemente GmbH is the most technologically advanced supplier of pipes for construction use, as well as for industrial solutions, heating technology and filter manufacturing. Flexible production methods allow us to produce in an economical way.
Our cusotomers rely on our extensive experience with tubes for various applications. Lean Management guarantees fast and suitable solutions for nearly all kind of requirements.

TUBES FOR EFFICIENT CONSTRUCTION

We offer intelligent solutions for a modern civil engineering durable quality, where it matters, economically reliable solutions, perfectly matched to the application.

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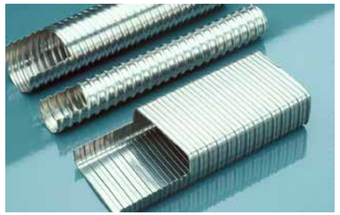
Cavity Pipe

Execution
- Round cross section
  Diameter 30 – 1500 mm
- Rectangular cross-section under table
  Production lengths 3 or 5 m

Material
Black Steel, galvanized, stainless steel

Application
- **Anchoring Engineering**
  In machine base plates, for crane rails
- **As recess pipes**
  For stretching cables, for pipe ducts, as grouting hole, as cavity in dormers, walls, base and ceiling plates

- **Prefabricated products**
  As duct for tie rods for subsequent press-fitting / grouting in finished parts
  In tie beams as recess pipes for threaded fasteners
  In the forming of contraction joints



ADVANTAGE

- High shearing strength
- High mechanical resistance
- Low weight
- Availability within short periods

Cases - permanent formwork

Execution
- Sheeting cases according to DIN standard 1045-1 Trapeze Profile
- Sheeting cases with sinusoidal Profile
- Conical shuttering Cases

Material
Blacksteel, galvanized

Application
- Industrial construction, noise protection wall
- Bridge foundation
- Permant formwork

ADVANTAGE

- Sheathing for statically perfect foundations
- High shearing strength
- Short installation periods
- Residual in concrete

Sheaths for prestressed concrete

Execution
- Longitudinally welded
- Normal version and heavy version
- Oval tubes
- According to DIN EN 523

Material
Black Steel, galvanized, stainless steel

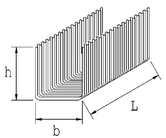
Application
- Prestressed building
- Prefabricated products

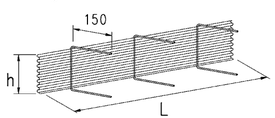
ADVANTAGE

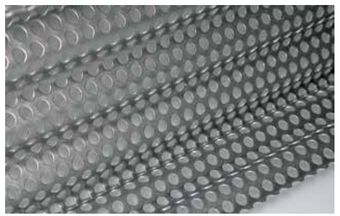
- Corrosion protection
- High resistance by tensile force and transverse load
- High expenditures in time and money
- Collecting of air bubbles to avoid their contact with the prestressing
- Sufficent shearing connection by sufficient profile heigth
- Short installation periods

Shuttering Systems

Execution
- Profiled massive sheet metal
- Profiled perforated sheet metal
- Bent sheets







ADVANTAGE

- Low lead times by matched formwork systems
- Short installation periods
- Special tools are not required
- No obstacles during the installation of the reinforcement

Rectangular Tube for tie rod

HYDRA-rectangular tubes have beehn specifically designed for use in precast concrete. They combine the advantages of classic round tubes, by inner and outer corrugation.

Execution
- Possible cross-sections of rigid and curved rectangular tube
- From 60 x 140 to 100 x 200 mm, other measurements on request
- The length without plug-in system max. 2 m

Material
Black Steel, galvanized

Application
Wherever positive connections are required but narrow installation situation, or low concrete cover is present and makes the use of traditional round tubes difficult. The bent rectangular tube can be delivered prebent according to customer requirements

ADVANTAGE

- High shearing strengh
- High mechanical resistance
- Low weight
- Availability within short periods

Formwork for wall and ceiling passages

The tube penetration are prefabricated elements which can be inserted directly into the formwork. Expensive manual shuttering on site, is not necessary.

Application
- Pipe run restorations in multi-storied buildings
- New construction of residential buildings and office buildings
- Sealing/sheeting of existing break-throughs with subsequent placing of concrete

ADVANTAGE

- Fire-protecting sealing according to the specifications of the Adaptation to system components customary in this field of industry
- Unchanged implementation of the route planning on the construction site
- One system
- Easy, fast and secure