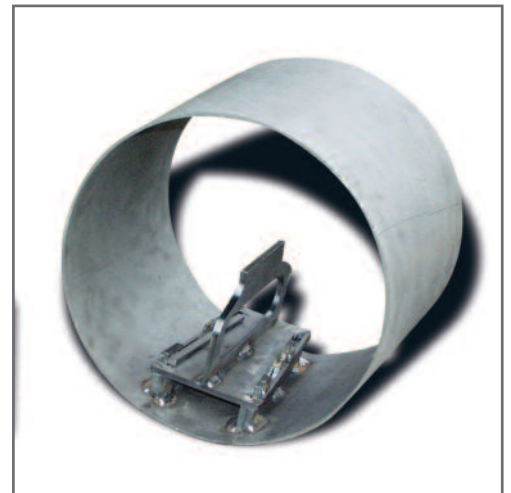


# 2

## 2.2. RECOVERABLE FORMWORK FOR CUT-OUTS Steel frame, FLEX-tube and -box formwork



### FORMWORK FOR CUT-OUTS



**ROBUSTA**  
GAUKEL



### Your benefits at a glance:

- No improvisation with complicated wooden formwork required
- Simple, stable and economical solution for window and door cut-outs
- No additional effort by expanding the wooden formwork
- No lost parts, suitable for multiple use with constant quality
- Less construction waste
- Can also be produced shrinkable on request for easier use

Even large construction projects are designed according to the architect's wishes more and more individual.

Only in exceptional cases will the buildings still be in the Masonry construction erected, concrete facades always set more through and the dimensions of windows and doors give way more and more from the old norms.

To meet these requirements, we constructed steel frames for the cut-outs of windows and doors.

We manufacture them in our own production according to your specifications.

Some of these cut-outs have already been used many times and have proven themselves through consistent quality.

We are happy to deliver the steel frames in shrinkable form version for fast and economical use.

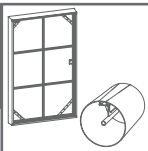
We look forward to your enquiry!



*Steel frame, all sides formed conical*





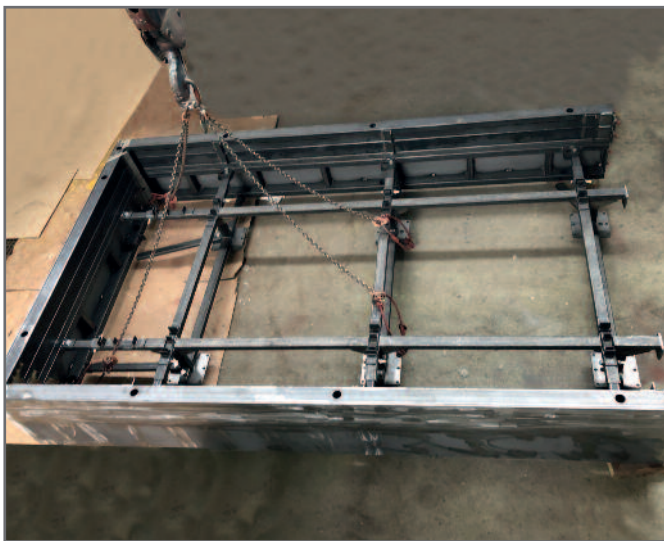


## RECOVERABLE FORMWORK FOR CUT-OUTS

### STEEL FRAME FOR WINDOWS AND DOORS

2

#### Shrinkable formwork frame



*The manufacturing of shrinkable steel frames*



*The formwork is transported to the place of use*



*Construction project ONE by CA Immo: first developments*



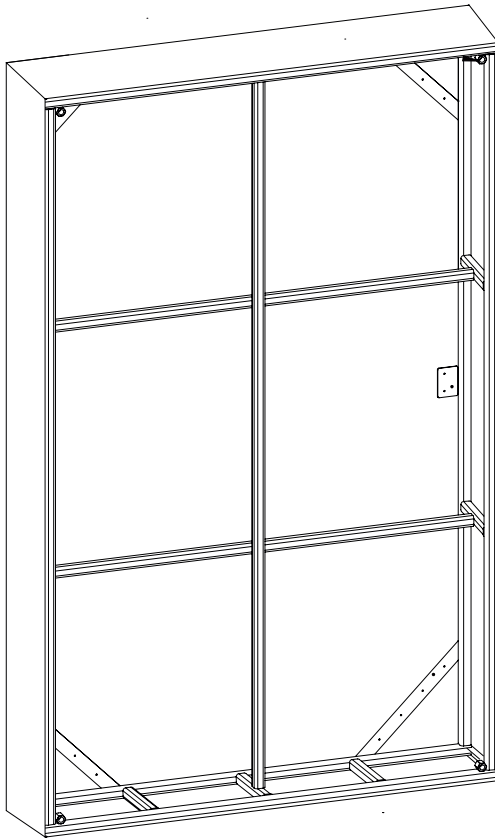
# 2

## RECOVERABLE FORMWORK FOR CUT-OUTS

### STEEL FRAME FOR WINDOWS AND DOORS



#### TECHNICAL DATA:

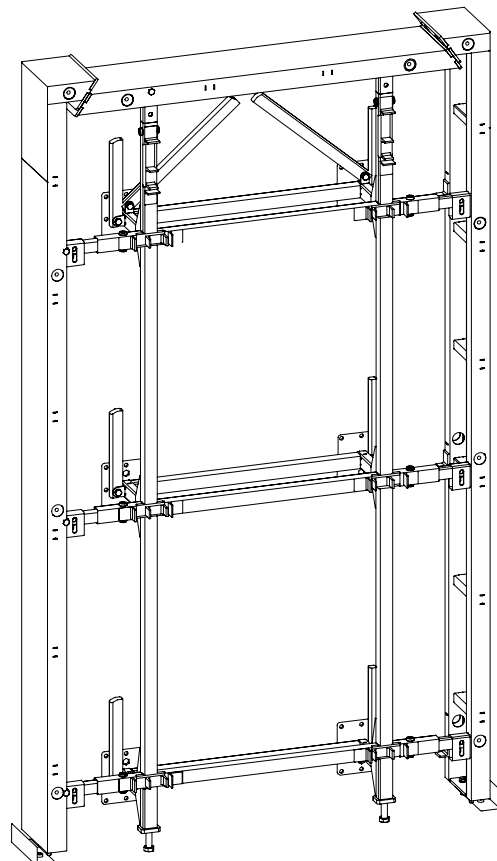
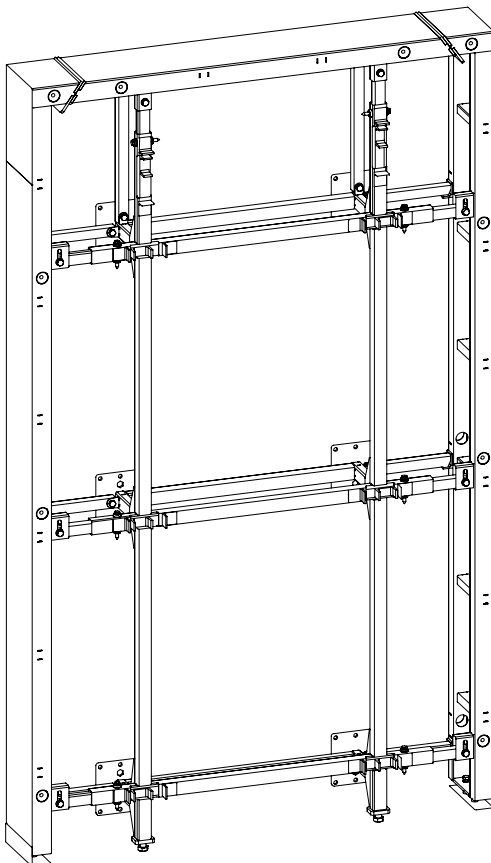


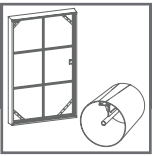
#### Steel frame for windows and doors

Sizes as specified

Weight [kg/unit]	Item No.
dimension dependant	218050

shrinkable version: the principle



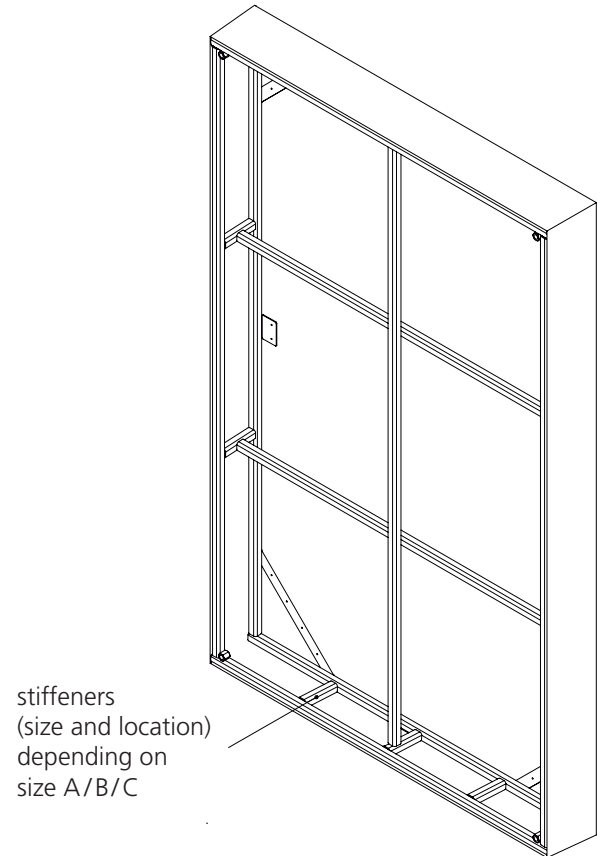
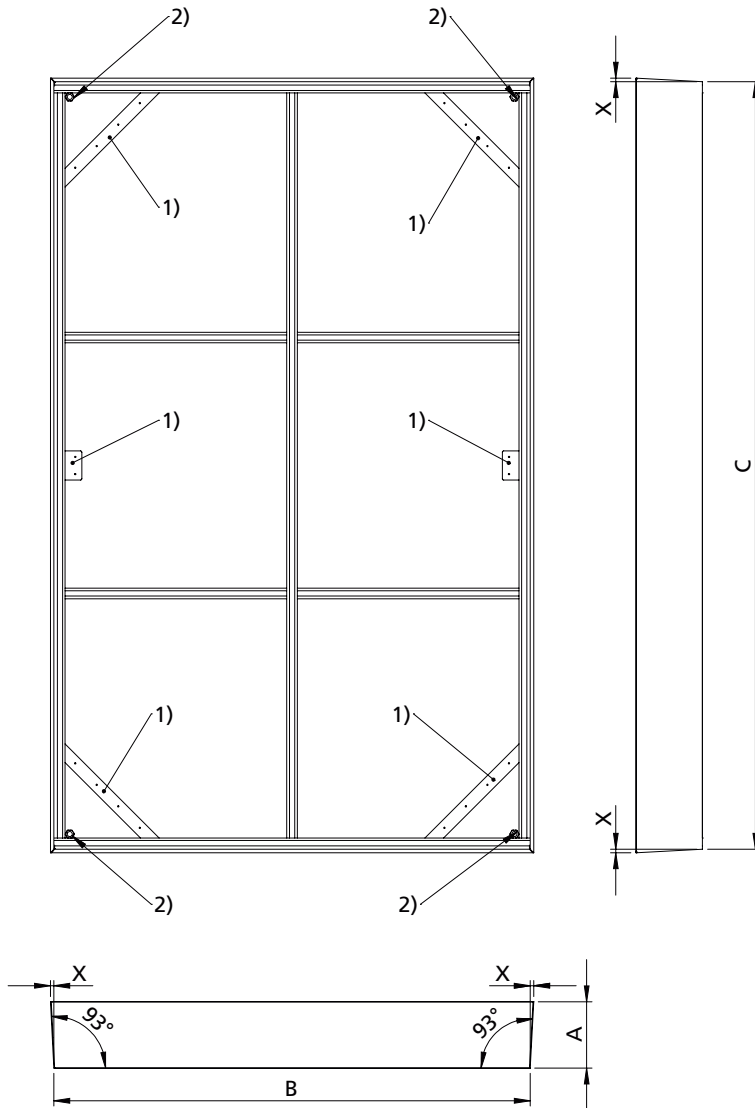


# RECOVERABLE FORMWORK FOR CUT-OUTS

2

## STEEL FRAME FOR WINDOWS AND DOORS

### KUNDENINFO FÜR MASSANGABEN



- A/B/C = target dimensions from the customer  
 X = broadening of dimensions B and C, depending on dimension A  
 1) = nail strips, on the larger side of the recess  
 2) = hexagonal nut D&W15 mm for stripping







### Your benefits at a glance:

- Recyclable and reusable formwork for high numbers of uses
- Round and rectangular shapes can be produced
- Simple and inexpensive production of cut-outs and openings in beams, walls and ceilings
- Easy attachment with a central anchor rod
- Clean sealing and chamfered concrete edge thanks to triangular rubber lips on both sides
- Fast, non-destructive removal
- Removable sealing lips make cleaning easy
- No remaining parts in the concrete – no risk of corrosion due to rust

### FLEX-tube and -box formwork

The special technical feature of this construction is that the cut-out body by a special wedge mechanism can shrink with a circumference of several millimeters.

This causes the formwork surfaces to detach from the concrete on all sides and the box can be removed non-destructively without constraints.

The reusable formwork bodies are made in accordance with the order to the desired size.

The feasible minimum dimension are approx. Ø 200 mm for round tubes or approx. 150 mm edge length for angular ones boxes.

The maximum possible lengths depend on the respective outer dimensions.

For particularly thick beams, 2 FLEX pipes are added arranged one above the other.

The use of these special formwork elements in the precast plant or on site becomes interesting if sufficient large numbers of breakthroughs are to be produced and therefore the lost components become more expensive.

We would be happy to make you an offer so that depending on your demand for formwork tubes we can calculate a cost comparison.



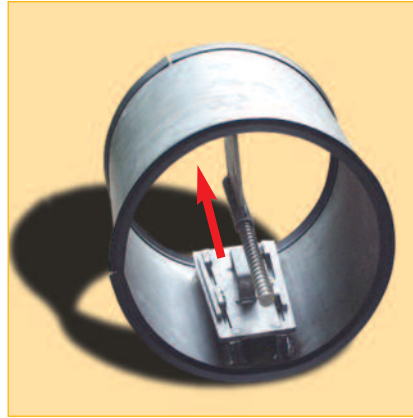


# RECOVERABLE FORMWORK FOR CUT-OUTS

## FLEX-TUBE AND -BOX FORMWORK

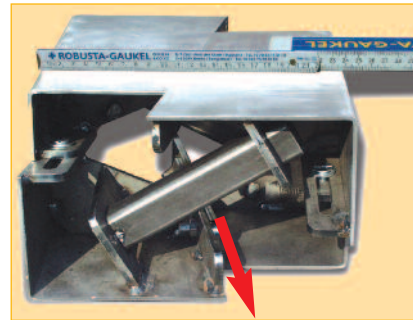
2

### Simple and quick installation:



#### Installation:

The formwork tube is fastened to the vertical side formwork by the centrally arranged tube sleeve using an anchor rod pushed and pressed with the wing nut. After installing the reinforcement, the closing formwork can be placed.

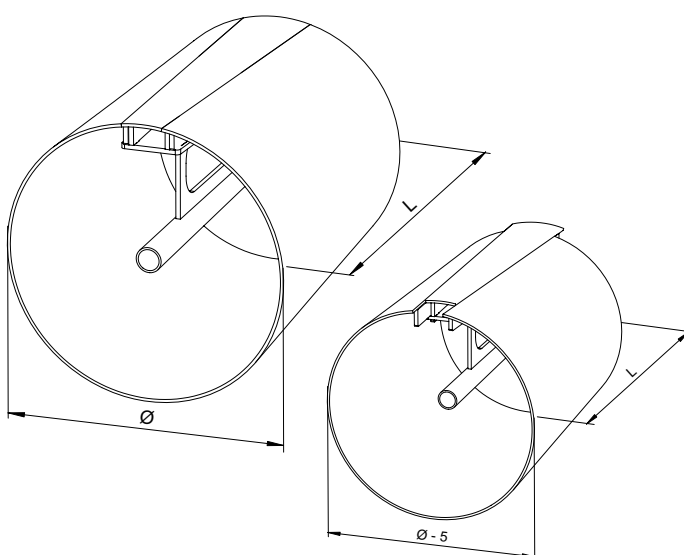


#### Expansion:

After removing the side formwork the wedge segment is shifted, thereby shrinking the pipe inevitably on all sides and comes loose from the concrete.

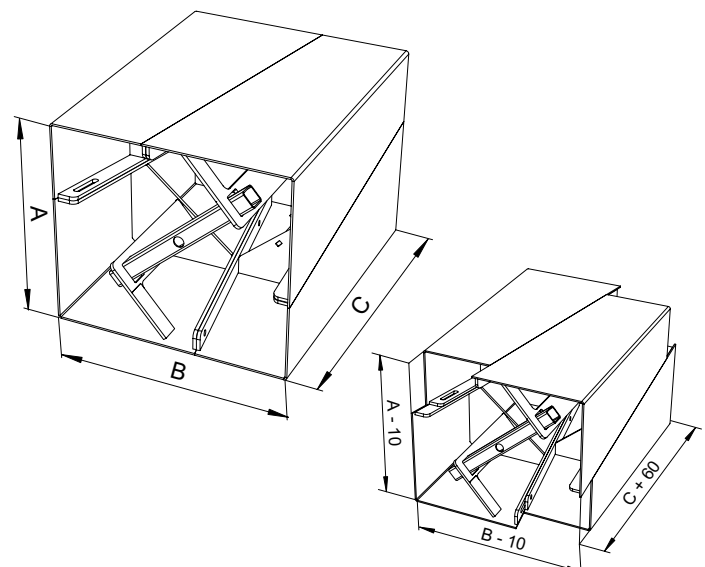
After the expansion and removing the rubber sealing lips the pipe becomes clean. Subsequent spraying with the forwork pipe makes the concrete release agent immediately for the next concreting process ready.

### TECHNICAL DATA:



**FLEX-tube formwork**  
Size as specified

Weight [kg/unit]	Artikel-Nr.
dimension dependant	216010



**FLEX-box formwork**  
Size as specified

Weight [kg/unit]	Item No.
dimension dependant	216020



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