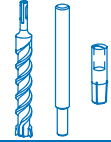
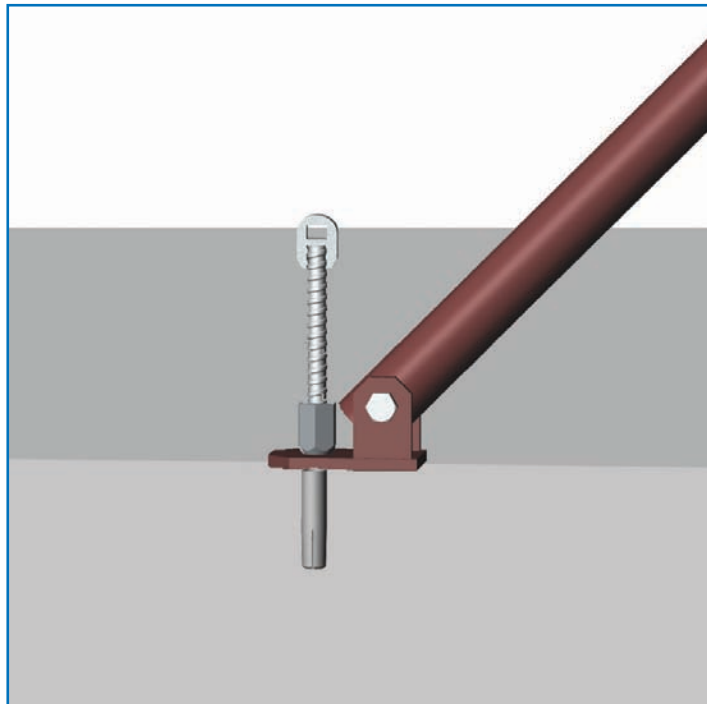
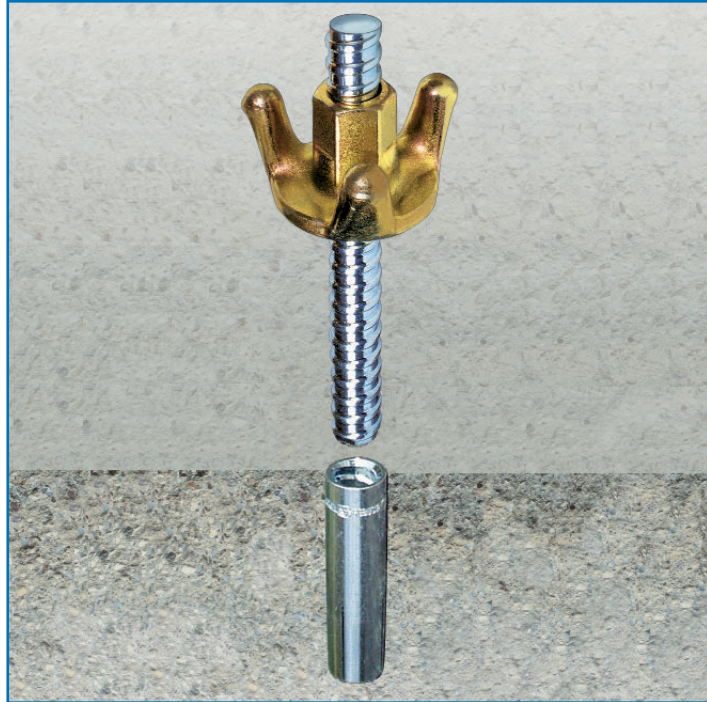


1

# IMPACT DOWEL, SCREW-ON-SET und accessories

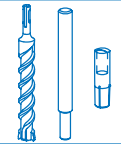


ANCHORING TECHNOLOGY



**ROBUSTA-GAUKEL** GMBH & CO. KG

*Customised solutions for constructions*



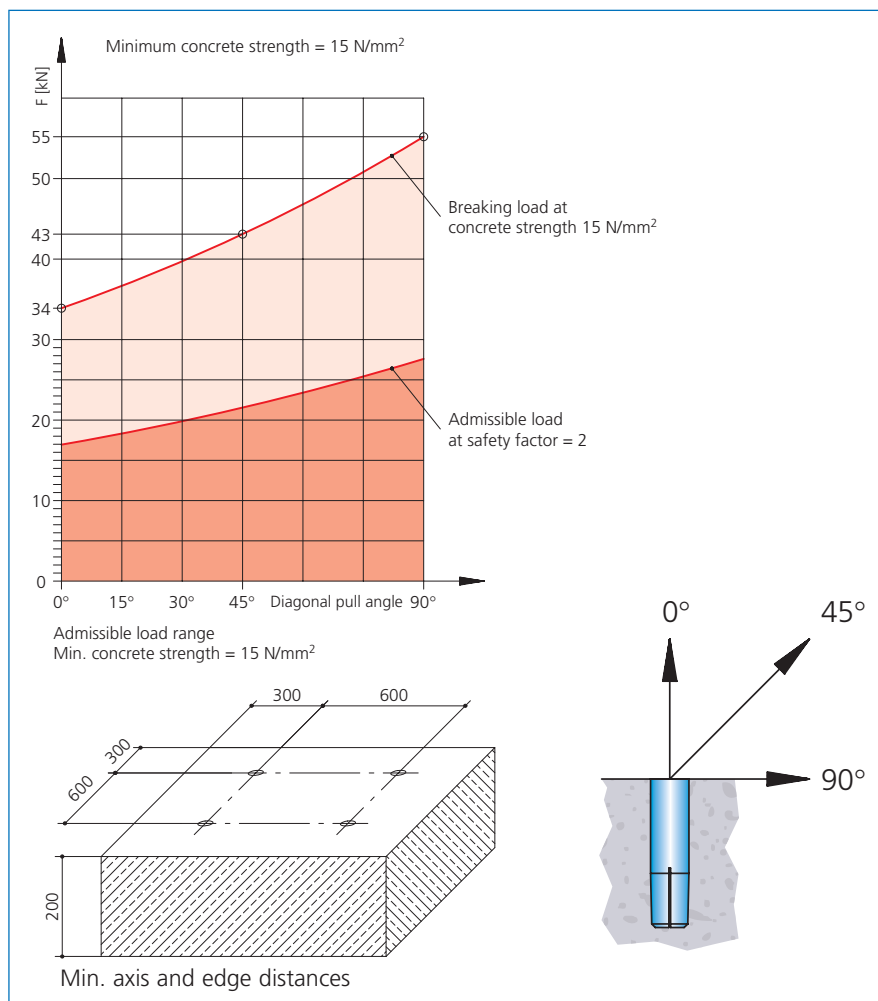
## General information:

- for use throughout and subsequently to anchor tie bars
- length of tie bar and clamping width free to choose
- to fix formwork at on-site concrete construction
- screw-on set as an accessory for fixing at mounting prefab construction
- admissible loads determined for low concrete strength of 15 N/mm<sup>2</sup>
- breaking loads proven by examination through an official experiment station
- to use everywhere saving costs if a heavy concrete anchor is not necessary

## Impact dowel Ø 15 mm

This special impact dowel with a Dywidag-internal thread is used by foremen over and over again with enthusiasm.

For subsequent anchoring on sites with low loads there is nothing better available, because the according tie bars with a practical coarse thread are used on every site. With the tie bars in suitable length any clamping widths for all kinds of use can be realized.



## Bearing load table

recommended admissible load for short time anchoring during construction

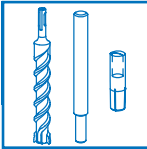
	Concrete strength		
	15 N/mm <sup>2</sup>	25 N/mm <sup>2</sup>	35 N/mm <sup>2</sup>
Load direction			
Axial tension 0°	17.0	21.9	26.0
Diagonal pull 45°	21.5	27.8	32.8
Shearing 90°	27.5	35.5	42.0

For safety we state the admissible loads for a low concrete strength of 15 N/mm<sup>2</sup>.

That means in practice that the anchors are often installed the next day after concreting and are already loaded.

This data are based on extensive tests of the official experiment station "bautest" in Augsburg.

Additionally the admissible loads for concrete strength 25 and 35 N/mm<sup>2</sup> are stated for using the dowels in hardened concrete.



# ANCHORING TECHNOLOGY

# 1

## IMPACT DOWEL, SCREW-ON SET AND ACCESSORIES

### Accessory: hard metal drill

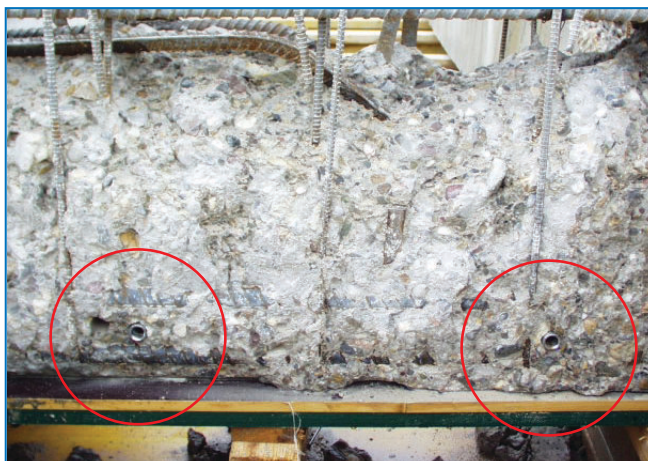
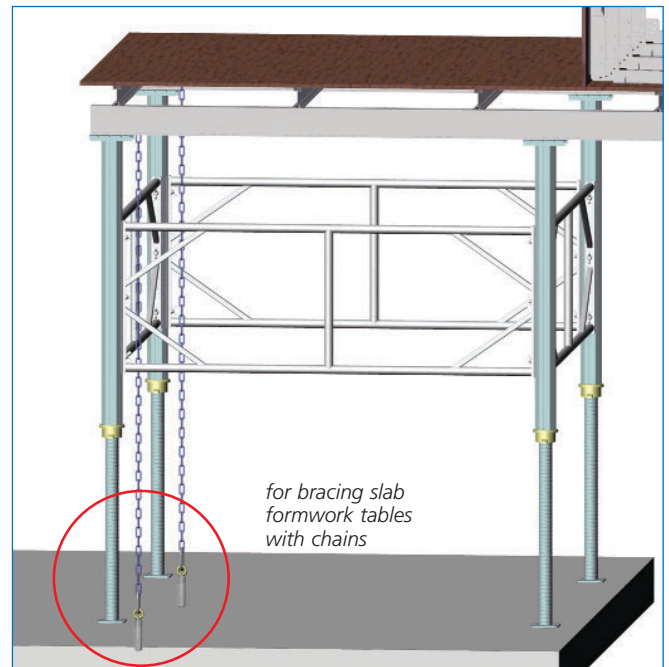
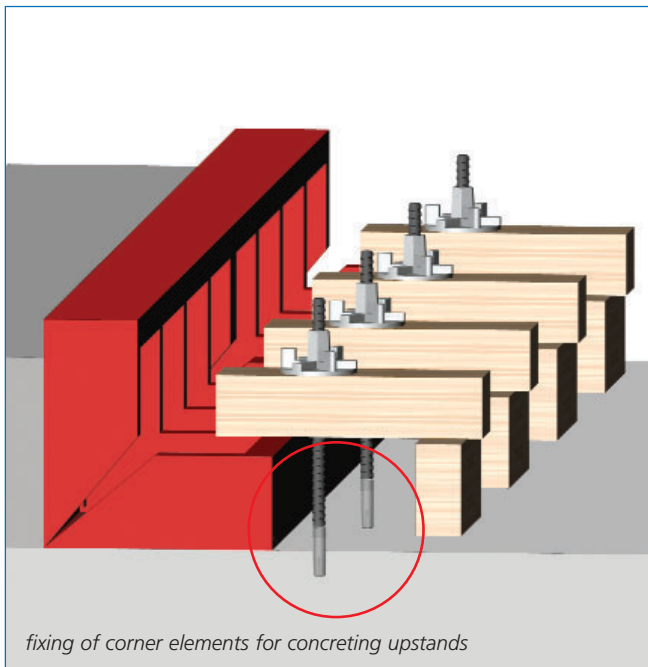
The **hard metal drill** with SDS-detection and crosstype cutting guarantees a constant boring diameter of  $\varnothing 22$  mm, also with deep borings.

### Accessory: punching pin

The installed dowel will be spread with the **punching pin** made of tempered steel.

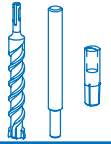


### Examples for use:



*formwork for renovation of a girder*





## Screw-on-set

**Wide range applicable bolt with nut**, which allows independence in multiple ways:

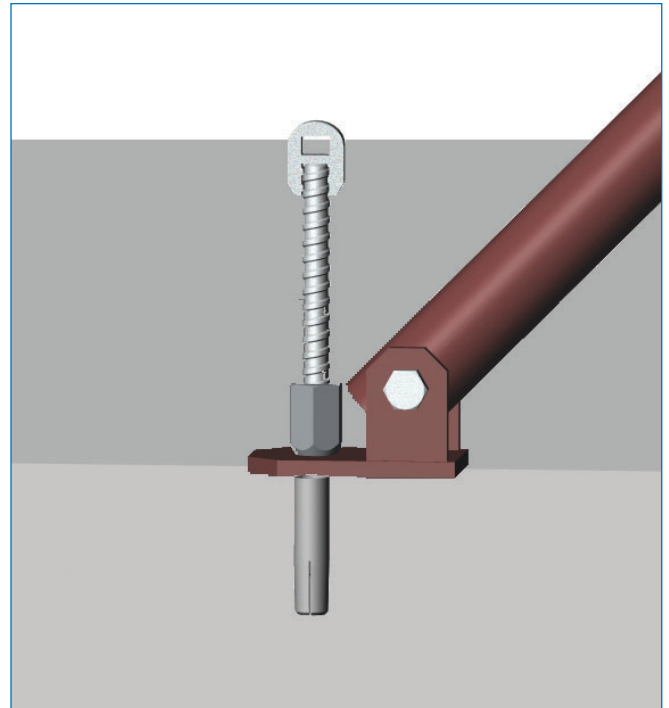
**User defined clamping thickness**, regardless of clamping a steel plate with 5 mm or 5 cm thickness.

**User defined screwing depth**, regardless of screwing the bolt into the dowel 35 mm or into the threaded sleeve 100 mm.

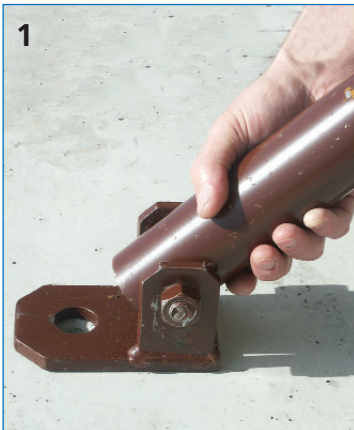
**User defined hole diameter** between 17 and 30 mm, the tightening of the conical shaped nut guarantees automatic centering without any tolerance in the middle of the hole. A shifting is not possible.

**Tightening without any special tool** (fork wrench), hammer will be enough!

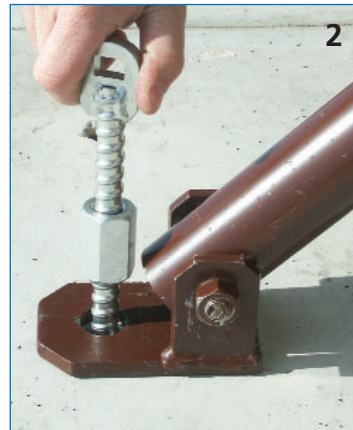
**No additional costs for adapter sleeves or washers.**



### Easy mounting of the screw-on-set:



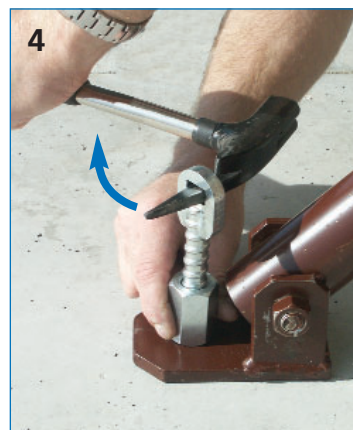
1. Place clamping part over the anchoring point.



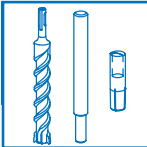
2. Screw bolt into the anchoring ground.



3. Tighten hexagonal bolt, in this way the nut will center the clamping part without tolerances.



4. Final tightening of the screw by simply turning it with e.g. German style roofing hammer.



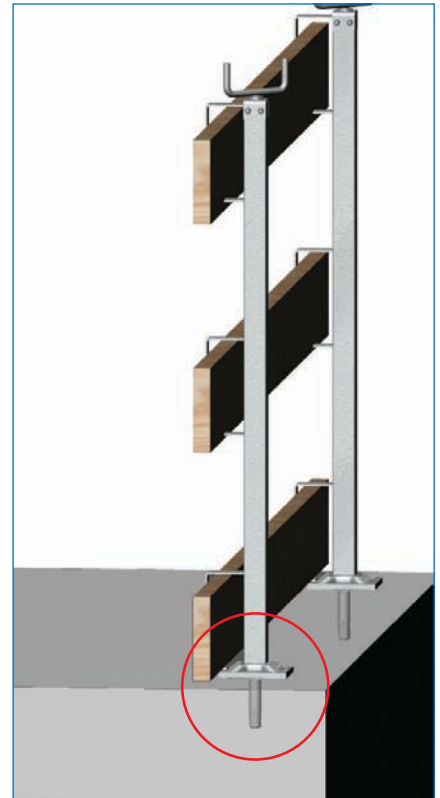
### Accessory: railing post for dowel

Especially for renovation work the edge protection of a construction site with the ROBUSTA dowel railing post is a convenient solution.

It is very stable because of the large base plate. A safe use also at high buildings up to 200 m above ground is guaranteed.

The thread core has an hard-wearing coarse thread D&W 15.

By turning the handle easy and comfortable screwing into the dowel is guaranteed.



### Accessory: slab stopend bar

It is used as a **support of the side formwork** and a **falling protection** all in one.

Because of the staggered support bar by 5 cm a correct placing of the planing is guaranteed. This will only be placed and fixed from the back with nails through the existing borings.

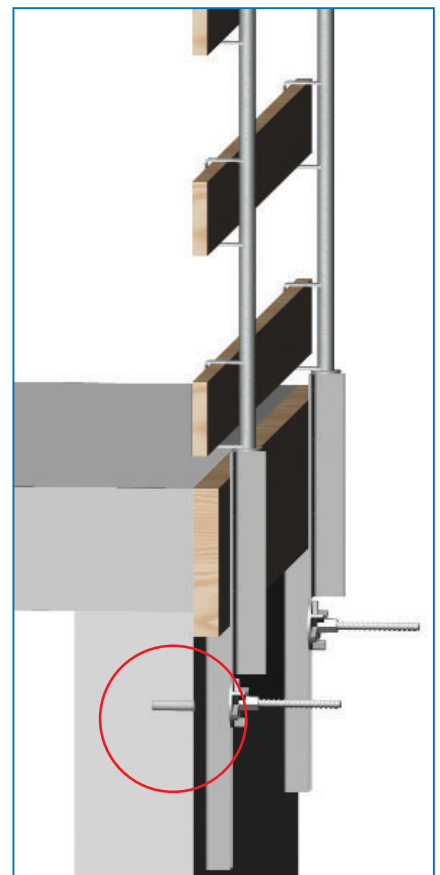
### Accessory: slab stopend console

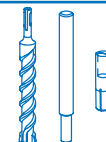
It offers all the advantages of the slab stopend bar and **enables additional casing of overhanging slab edges** with a cantilever up to 40 cm.

The position of the fixing holes is adjusted to the brickwork measurements of 25 cm, therefore the tie rod can always be driven through the horizontal joint.

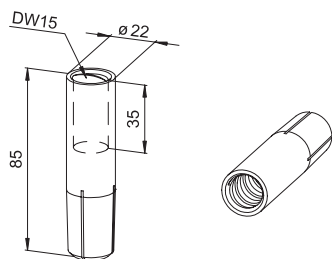
### Accessory: insertion railing post

With the inserted railing post a fall protection is installed **in short time** without effort.



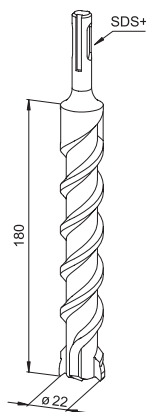


### TECHNICAL DATA:



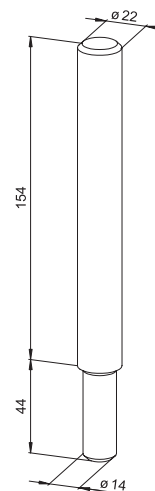
**Impact dowel D&W 15, galvanized**

Weight [kg/100 units]	Item No.
16.5	121515



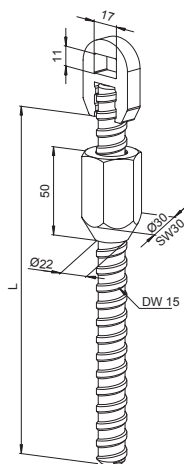
**Hard metal drill**

Weight [kg/100 units]	Item No.
0.40	121517



**Punching pin, galvanized**

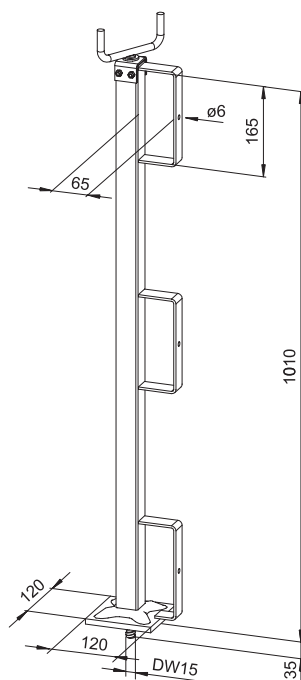
Weight [kg/100 units]	Item No.
0.45	121516



**Screw-on-set Ø 15 mm, galvanized**

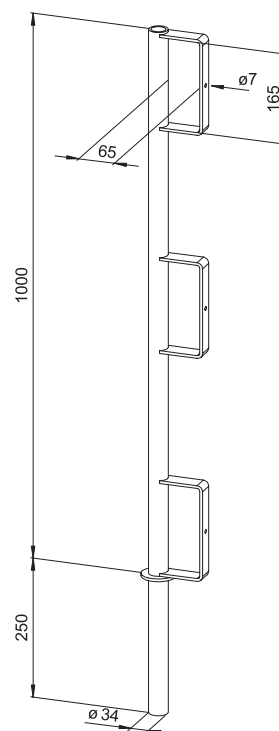
Length* [mm]	Weight [kg/unit]	Item No.
180	0,46	111818
300	0,78	111830

\*other lengths are available on request.



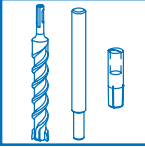
**Railing post for dowel galvanized**

Weight [kg/unit]	Item No.
8.5	330825



**Insertion railing post**

Weight [kg/unit]	Item No.
5.0	330225

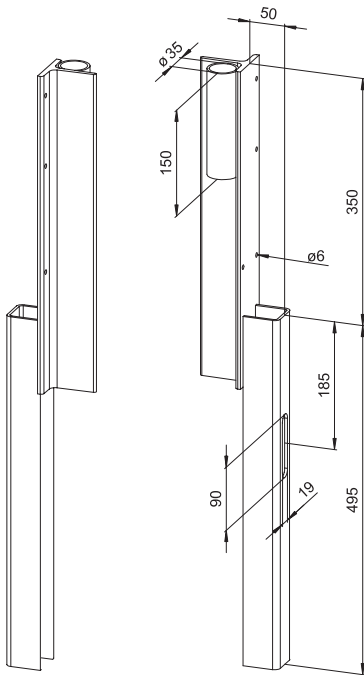


# ANCHORING TECHNOLOGY

# 1

## IMPACT DOWEL, SCREW-ON SET AND ACCESSORIES

### TECHNICAL DATA:

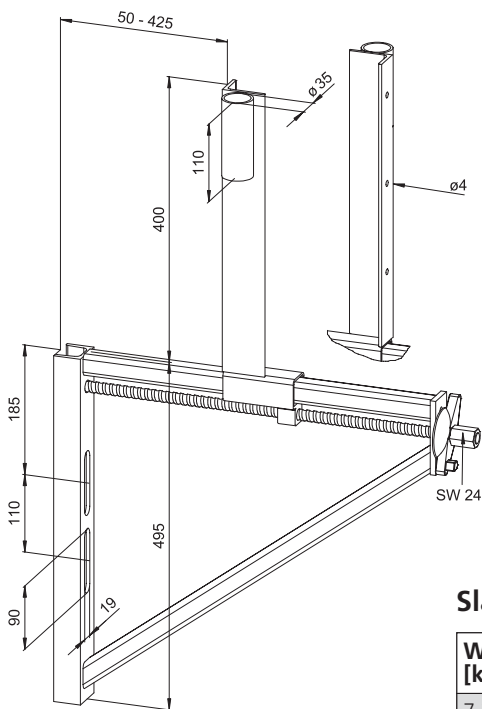


**Slab stopend bar**

Weight [kg/unit]	Item No.
4.70	520201

Slab thickness „d” in cm	Distance „e” in m
16	2.00
18	2.00
20	1.75
22	1.50
24	1.32
26	1.16
28	1.04
30	0.94
34	0.78
36	0.73
38	0.62
40	0.53

max. anchor traction = 5 kN



**Slab stopend console**

Weight [kg/unit]	Item No.
7.30	520101

Slab thickness „d” in cm	Cantilever „A” in cm			
	10	20	30	40
16	2.00	2.00	2.00	2.00
18	2.00	2.00	2.00	2.00
20	2.00	2.00	2.00	2.00
22	2.00	2.00	2.00	1.90
24	2.00	2.00	2.00	1.80
26	2.00	2.00	1.90	1.60
28	2.00	1.80	1.70	1.45
30	1.80	1.60	1.50	1.30
32	1.60	1.40	1.35	1.20
34	1.40	1.20	1.20	1.10

Mounting distances “e” of the console in m

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