SC YEars

Anchoring technology Tie rods

Applications, properties, benefits

Anchoring technology

Range 2013

Reinforcement

technology Bridge building

technology

technology Shuttering system technology

Spacer

technology

technology

Work aids

Index

Contact

4

Search

Print Quit

Sales

Construction joint

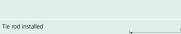
Building materials

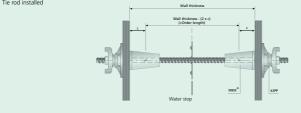
Tubular spreader

BETOMAX® tie rods - The all-purpose solution for modern shuttering:

- Depending on the type, BETOMAX® tie rods have working loads up to 240 kN
 Weldable (see system description for welding coordinate)

- Load limit for accessories according to DIN 18216
 BETOMAX**—All-round thread makes BETOMAX** is to dos especially resistant to vibration be BETOMAX**—it rouds can be bent (e.g. loops, round and angle hooks, pigtal anchors BETOMAX**—it erods are bent leg. loops, round and angle hooks, pigtal anchors BETOMAX**—tie rods are compatible with Uni-system accessories 15 / 20 / 26.5

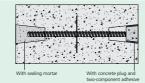








After closing conical holes



BETOMAX® 15Approved by German building authority No. Z-12.5-82 Weldable and bendable te rod with all-round thread. Compatible with all luft 15 system accessories. Various dimensions and galvanization available on request. Weight kg/piece 0.310 0.390 0.470 0.540 0.620 0.780 1.160 1.320 1.550 1.940 2.330 3.490 3.490 3.490 9.920 BETOMAX® 20 Item No. Length Packing unit Weight kg/unit 14529999 14528888 *6.35 m Various dim + make-up * Useful length app ox. 6.25 metre BETOMAX® 26.5 Item No. *6.30 m Various dim + make-un 17539999 17538888 28.980/pc 4.600/m External diameter a
Core diameter b
Pitch c
Working load
Breaking load
Sreaking load
Yield point 10
Partial safety factor for tie rod 10
Partial safety factor for acting load 10 22.0 mm 20.0 mm 10.0 mm 150 kN 300 kN 30.0 mm 26.5 mm 13.0 mm 240 kN 510 kN 17.0 mm 15.0 mm 10.0 mm 165 kN 142 kN 1.15 1.50 Uni 15*/20 Item No. Desig. Length Packing unit Weight kalmetre rman building authority No. Z-12.5-81 Tie rod made of **non-weldable pre-stressed** steel. D&W system 2.500 External diameter a Core diameter b Pitch c Working load Breaking load

2.500

SC YEARS

Anchoring technology Tie rods / Tools / Waler plates

Range 2013 Anchoring technology KO 10 round thread Made from hot-rolled round steel Chemical compositions equivalent to that for BSt 500 construction steel. Highly wear-resistant thread around the entire circumference

Reinforcement technology

Bridge building technology

Construction joint technology

Shuttering system

Building materials technology

technology

Spacer technology Tubular spreader

technology Work aids

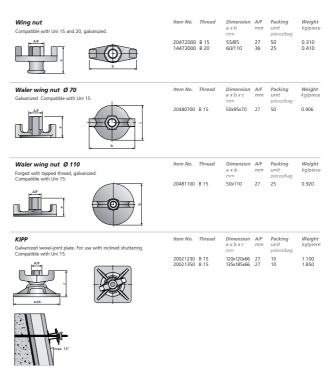
Contact Sales



Search

Print Quit

Made from hot-rolled round steel	Item No. 11509999		Length m *6.10 m	Packing unit	Weigh: kg/met 0.500
Chemical compositions equivalent to that for BSt 500 construction steel. Highly wear-resistant thread around the entire circumference Good welding properties	11508888		Various dim. + make-up supple	piece metre ement	0.500
	* Useful len	gth approx	. 6.00 metre		
Technical data External diameter a Core diameter b Rich c Working load Breaking load Mandrel Diameter	9.6 mm 8.1 mm 4.0 mm 15 kN 32 kN 90.0 mm				
Stud spanner For tightening and releasing tie rods.	Item No.		for tie rods type	Packing unit piece	Weigh:
3	90200400		BETOMAX® B 15	1	1.640
Universal spanner Ratchet spanner with spring-loaded hook jaw.	Item No.		for tie rods type	Packing unit piece	Weigh:
For tightening and releasing tie rods.	90200440		B 15/B 20/B 26.5 Ø max. 37.5 mm	1	0.760
	90200442		B 15/B 20/B 26.5 Ø max. 50 mm	1	1.600
Waler plate TE Cast and galvanized.	Item No.	Hole Ø mm	Plate size a x b x c x d mm	Packing unit pieces/bundle	Weigh:
315	10121218	20	120x120x28x8	10	0.820
Steel waler plate Pressed and galvanized.	Item No.	Hole Ø mm	Plate size a x b x c x d mm	Packing unit pieces/bundle	Weigh kg/pie
316	10121020 11011092	20 12	120x120x20x10 110x110x20x 5	10 10	1.100 0.450
Steel waler plate plain Plain design, galvanized.	Item No.	Hole Ø mm	Plate size a x b x c mm	Packing unit pieces/bundle	Weigh:
	10121225 10121234	25 34	120x120x20 120x120x20	10 10	2.120 2.100



91218200 B 15

Accessories' loadability according to DIN 18216

seated with stem and grips. No risk of accidents y slipping off.

SC YEars

Range 2013

Anchoring technology

Reinforcement technology

Bridge building technology

Construction joint technology

Shuttering system technology

Building materials

Spacer technology

Tubular spreader

technology Work aids

Contact

Sales



Search Print Quit

Anchoring technology Screwed fastenings

Hex nut Made of free-cutting steel. Compatible with Uni-rods. Not for strength welding!



Quality S 355 (St 52-3) on request. Weldable

	Item No.	Thread	Height	A/F	Packing
ole with Uni-rods.			a mm	mm	unit pieces/bag
	20430100	B 15	50	30	100
Veldable	20440230*	B 15	25	30	250
	14430400	B 20	60	36	50
A/F	21430800	B 26.5	80	46	25
	11430700	KO 10	20	17	30
	* Use only as	a locknut (St 52-3).			

20450100 B 15 14450800 B 20 21450700 B 26.5

Threaded connecting sleeve

Made of free-cutting steel, with stop pin, for extending tie rods. Compatible with Uni-rods. Not for strength welding!

Quality S 355 (St 52-3) on request. Weldable



Pre-tension nut Made of free-cutting steel. Fine-pitch thread for pre-tensioning. Compatible with Uni-rods



Item No.	Designation	A/F1 mm	A/F2 mm	Packing unit piece	Weight kg/piece
20451820	Pre-tension nut B 15	30	41	1	0.670
14451120	Pre-tension nut B 20	36	46	1	0.780
21/451260	Pro-tonsion nut	46	60	1	1 320

Height A/F a mm mm 105 30 110 36 150 46

		Pre	e-tensioning	force	
Torque settings	10 kN	30 kN	50 kN	70 kN	90 kN
B 15	55 Nm	170 Nm	280 Nm	400 Nm	520 Nm
B 20	58 Nm	180 Nm	300 Nm	413 Nm	533 Nm
B 26,5	65 Nm	185 Nm	315 Nm	445 Nm	575 Nm

0.210 0.105 0.500 0.800 0.130

0.440 0.650 1.400

Tools

Ratchet spanner



	mm	unit	kg/piei
		piece	
91024500	24	1	0.500
91027400	27	1	0.500
91030500	30	1	0.810
91036300	36	1	1.270
91046900	46	1	2.400



Item No.	Designation	Packing unit piece	Weight kg/piece
91145200	Torque wrench 200 Nm	1	1.440
91147240	Torque wrench 400 Nm	1	1.580
91149270	Torque wrench insert A/F 27	1	0.180
91149300	Torque wrench insert A/F 30	1	0.220
91149410	Torque wrench insert A/F 41	1	0.260
Inserts for A	/F 46 and 60 availa	ble on request	

25 pcs./bundle 0.470 50 pcs./bag

Item No. Designation 27301100 Tension jack

estressing wire from 5 to 10 mm.	
num load 10 kN for Ø 10 mm according to DIN 1821	6.

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	0 0	
5		
<u>.</u>	76	

h 70

Tension lever				
27311700 Tension lever 1 3.430	Item No.	Designation	unit	Weight kg/piece
	27311700	Tension lever	1	3.430

1.760

0.210

0.285

0.378

metre

metre 0.240

SCYEARS

Range 2013

Anchoring technology

Reinforcement technology

Bridge building technology

Construction joint technology

Shuttering system

technology

Building materials

Spacer technology

Tubular spreader

technology

Work aids

Contact

Sales



Search

Print Quit

Anchoring technology Water stops / Cones

BETOMAX® - water stops - Applications, properties, benefits

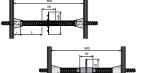
- 120 x 120 mm square water stop offers best protection against infiltration of water
 Molded round water-stop plate, 120 mm diameter, ensures greatest possible protection against lateral infiltration of water
 Water stop with studs improves bonding with concrete and resistance to orsoinal stress. Compliance with striking time
 Conical holes can be closed with mortar or a concrete plug when the cone is removed
 in conjunction with Cone EX, the concrete cover is 35 or 50 mm
 Concrete cover c with MKX**815 is 50 mm

Item No.	Thread	Plate size a x b mm	Packing unit piece	Weight kg/piece
10291412	B20	120x120 120x120 120x120	1 1	0.320 0.320 0.320
Calculation	n of tie rod	cut length (L):		0.320
	10291812 10291412 10291712 Calculatio	10291812 B15 10291412 B20 10291712 B26.5 Calculation of tie rod	a x b mm 10291812 815 120x120 10291412 820 120x120 10291712 826.5 120x120 Calculation of tie rod cut length (U):	a x b unit mm piece 10291812 B15 120x120 1 10291412 B20 120x120 1

vater stop 815, square* Inspection report Vater stop 815, round	nem wo.	IIIreau	a x b / Ø mm	unit pieces/bag	kg/pie
ompatible with Uni 15. The water stop B 15 has two sockets for ac-	20458400*	B15 square	120x120	30	0.6
ommodating Dist K-26 rough cut tubes with a tight seal. This prevents	20458420	B15 round	120	25	0.7

mounting unit N-Zo rough cut tubes with a tight seal. This preverement from entering and concreting in the tie rod. Studs improving with concrete. Reducing adapters are available for Dist K-22 list FB-22. The 70 mm dimension becomes 125 mm adducing adapter is used.





length (L):	
	of tube cut length
(L) with red K22 or FB22	icing adapter and



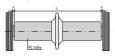


Water stop St 22, welded on



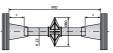
	axb		Weight kg/piece
10290311	120x120	1	0.320

SD - water stop



- New type of sealing ring on a synthetic elastomer ba
 Automatic swelling responds to moisture and wether
 Defined swelling capacity designed specifically for
 sealing purposes
 Universally applicable with fiber-enforced connects.
 Universally applicable with fiber-enforced connects
 ranging from 22 to 40 mm
 ranging from 22 to 40 mm
 symplest smallarling with the
 special BETOMAN* SD installation pilers

WARO - tube water stop



Calculation of tube cut length Dist (L): L = W/D - 2c Cut length of tube must be ordered separately.			
Item No.	Designation	Packing unit pieces/bag	Weight kg/100 pc
60022100	WARO-tube water stop	100	2.720

Fibrous concrete spacer tube 22, 22/40 cut length Plastic spacer tube K-22 rough, 22/26 cut length Plastic spacer tube K-26 rough, 26/30 cut length Plastic spacer tube K-32 rough 32/36 cut length

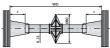
61922888

63122130

63126190

63132190

...always the right solution.



Item No.	Thread	Packing unit pieces/bag	Weight kg/piece
18402000	B 15	25	0.500
14402000	B 20	25	0.770
21408000	B 26.5	10	1.670





MKK® cap for flush sealing of the MKK® on the formw	roi
MKK® sealing cap for sealing the MKK® on rough surfa	30
with tilt equalisation up to 3°.	

KK®:	a mm	Ø D mm	Ø d mm	c mm	n
B 15	95	61	40	50	
B 20	126	70	42	65	
B 26.5	135	103	57	70	
	B 20	mm B 15 95 B 20 126	mm mm B 15 95 61 B 20 126 70	mm mm mm B 15 95 61 40 B 20 126 70 42	mm mm mm mm mm B 15 95 61 40 50 B 20 126 70 42 65

SC YEars

Anchoring technology Cones / Accessories / Tools

Range 2013 Anchoring technology

Reinforcement technology

Bridge building technology

Construction joint technology

Shuttering system

technology Building materials

technology

Spacer technology

Tubular spreader

technology

Work aids

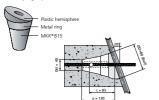
Contact

Sales



Search Print Quit

MKK® Vario B15 The MKK® Vario consists of a galvanized ring and a plastic hemisphere Together with the angle adapter, the MKK® Vario 815 can be used to offset any angle up to 20° .



Weight kg/piece

0.810 0.310

TOMAX® 15 steel climbing cone is used in conjunction	Item No.	Designation	Packing unit pieces/bag
FOMAX® 15 tie rod and an M 24 bolt. It is used wherever 15 is selected as the leading cone. tightened and released with the special SKK® spanner.	18405400 18469300	SKK® BETOMAX®15 Nailable plate M24, galvanized	10 1



Cap for MKK®	Item No.	for MKK ⁰	Packing	Weight
Prevents penetration of MKK® by concrete.			unit pieces/bag	kg/piece
	18409100	B 15	50	0.004
S	14409200	B 20	50	0.006
	21/102200	P 76 E	50	0.011

ions cap for MKK®:

	а	S
B 15	63	2
B 20	68	2
B 26.5	103	2

MKK® - sealing cap B15 For sealing the MKK® on rough s with tilt equalisation up to 3°.





Nailable plate for MKK®



		unit piece	kg/pie
20469300	B 15	1	0.100
14469300	B 20	1	0.190
17651000	B 26.5	1	0.200

nsions nailable plate:

...always the right solution.

B 15 58 25 3 B 20 70 27 3 B 26.5 100 27 3

Special-MKK® - spanner For removing the MKK®. Cannot tilt, no risk of accidents caused by slipping off.	Item No.	for MKK®	Packing unit piece	Weight kg/piece
no lisk of accidents caused by suppling oil.	90418000 90414600 90420400	B 15 B 20 B 26.5	1 1 1	2.450 2.860 7.320
820				
•				

Cranked box spanner	Item No.	for MKK®	A/F mm	Packing unit	Weight kg/piece
An inexpensive alternative for unscrewing the MKK® without the benefits of the special MKK® spanner.			mm	piece	kgipiece
	90227100	B 15	27	1	1.150
	90230200	B 20	32	1	1.620

Item No. for SKK®



Weight kg/piece

SC YEars

Anchoring technology Cones / Accessories

Anchoring technology

Reinforcement technology

Range 2013

Bridge building technology

Construction joint technology

Shuttering system technology

Building materials

technology

Spacer technology

Tubular spreader technology

Work aids

Index

Contact

Sales



Search Print Quit

Concrete plug for MKK®



l <u>∗ ^b →</u> l				
component adhesive pection report	Item No.	for MKK ⁿ	Packing unit	Weight kg/comp nents A
oxy resin adhesive. For making waterproof resilient joints h concrete plugs. The components are colour-coded:	61800200	2-comp. adhesive	1 pot each	

61800310 2-comp. injection gun



SBK® / CBK® Steel-concrete cone, remains in concrete. Closed flush with fibrous concrete plug 22/20. Compatible with Uni 15.	Item No.	Thread	Work. load	Packing unit pieces/box	Weight kg/piece
Closed Hash With horous concrete plug 22/20. Compatible With Oil 15.	SBK®				
	20425000 CBK®	B 15	90 kN	40	0.820
	20426500	B 15	75 kN	50	0.440



Dimensions SBK®/CBK®:	a	с	D	d

┝╧┪┈┡┈	SBK® B 15 136 100 58 53 CBK® B 15 108 75 52 48	
in i		
	Permanent tie rod length = WD - 2c	

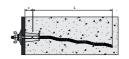
Fibrous concrete plug	Item No.	Ø	Length	Packing	Weight
Makes flush seal for SBK® /CBK®.		mm	mm	unit pieces/bag	kg/1000 pcs
Watertight seal obtained with two-component adhesive.	61800320	22	20 (CBK [®])	1000	13.600
	61800350	22	50 (SBK®)	500	38.000

Single-ended rods

0.240 0.337 0.700

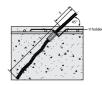
1.220

Pigtail anchor Weight kg/piece Made from weldable and bendable BETOMAX® tie rods 15, 20 and 26.5 For one-ended anchoring in concrete For use as permanent (internal) tie rods Also for use in conjunction with cones. e.g. for o 0.852 1.820 4.600



gtail anchor:		L	С	S
	B 15	550	50	70
	B 20	700	65	80
	B 26.5	800	70	100
	B 26.5	800	70	100

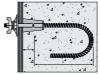
...always the right solution.



- Made from weldable and bendable BETOMAX® tie rods 15, 20 and 26.5

•	Same applications as pigtail anchor, but also for smaller wall thicknesses

17570650 8 26
Dimensions round l



SC YEars

Anchoring technology Single-ended rods

Anchoring technology

Reinforcement

Range 2013

technology Bridge building

technology Construction joint

technology

Shuttering system technology

Building materials technology

Spacer technology

Tubular spreader technology

Work aids

Index

Contact

Sales



Search Quit

Print

- Anchor loop
- AILLING TOOP

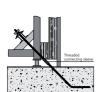
 Made from weldable and bendable BETOMAX®
 the roots 15, 20 and 26.5

 For anchoring supports, for single-sided formwork

 Installed in first concreting section, in floor slab

 Can be extended with threaded connecting sleeve and MKK®







Finishing Cone B15 / B20 / B26,5

2.710 3.900 9.200

30 40 30 23 30 40 30 30 35 45 45 30

Load numbers (referred to one leg)

160 kN B 15 300 kN B 20 520 kN B 26.5

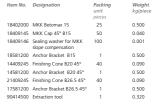
Example: execution with Finishing Cone B15











...always the right solution.

Features, properties:

- Recessed installation of the lost anchor rod
 Cone can be fitted at precisely 45°
 Finishes perfectly flush with the surface

- In misres perfectly must with the surface
 Cone can be easily removed with the help of the extraction tool (for B20 und B26.5)
 A connecting nut can be easily fitted once the cone has been pulled
 Closing mortaring of the recess with BETOMAX® sealing mortar



SCYEARS

Range 2013

Anchoring technology

Reinforcement technology

Bridge building technology

Construction joint technology

Shuttering system

technology Building materials

technology

Spacer technology

Tubular spreader technology

Work aids

Contact

Sales



Search

Print Quit

Anchoring technology Single-ended rods / Accessories

45° cap B15

Made of plastic. For use with MKK® when installing at 45°.

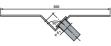


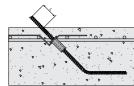


Item No.	Designation	Packing unit pieces	Weight kg/piece
18409145	45° cap B15	1	0.041
18409146	Sealing washer for MKK angle adapter	100	0.001
18409148	Compensation washer 90 x 60 x 10 selfadhesive. for MKK 45° angle adjuster	100	0.010

Thread	а	b	с	Ød	ØD
B 15	5	70	14	30	65

Item No.	Designation	Ø mm	Packing unit piece	Weight kg/piece
18581000	V Holder B 15	15	1	0.420
14581000	V Holder B 20	20	1	0.420
17581000	V Holder B 26.5	26.5	1	0.420





Illustrated with anchor lo	
L = Projection for fasteni	ng with threaded connecting sleeve

		mm	unit piece	kg/piece	
18581000	V Holder B 15	15	1	0.420	
14581000	V Holder B 20	20	1	0.420	
17581000	V Holder B 26.5	26.5	1	0.420	

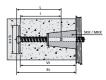
7581000	V Holder B 26.5	26.5	1	
broad	a 4			

B 15 B 20	25 32
B 26.5	40
Thread	L
D 15	70

Thread	L
B 15	70
B 20	80
B 26.5	100
D 20.5	100

Barrier tie rod

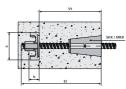




axb	t	L	1	Vt	Et
90 x 120	10	180	160	210	230

 Item No.
 Designation and person person and person person and person an

ROTOR



1.0		
	SKK / MKK	

SUYEARS

Range 2013 Anchoring technology

Reinforcement technology

Bridge building technology

Construction joint technology

Shuttering system

technology Building materials

technology Spacer technology

Tubular spreader technology

Work aids

Contact

Sales



Search

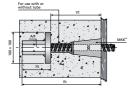
Print Quit

Anchoring technology Single-ended rods

End anchor B 20

Made from an anchor plate with welded-on B 20 hexagon nut. For one-sided anchoring. Compatible with Uni 20.

|--|



14580100 End anchor B 20

Anchoring depth: Vt = 175 mm (Acc. to test certificate, failing load in concrete 177 kN and concrete quality 825)

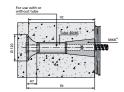
Failing load in concrete: 235 kN in uncracked concrete 177 kN / 181 kN in cracked concrete (test cone dia. restricted to 850 mm)

Concrete strength: 30 N / mm²

Max. load depends on the concrete quality and anchoring depth (Vt)

End anchor B 26.5 Inspection report	Item No.	Designation	Packing unit	Weight kg/piece
asting for one-sided anchoring.			piece	
asting for one-sided anchorning.	17580100	End anchor B 26.5	1	1.320

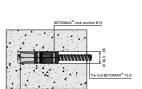




Rock anchor 815*/820

* Approved by German building authority No. 2-21.6-1827
For securing single-sided formwork in concrete or rock walk.
Compatible with Uni 15. Also for attaching ledge consoles to components without concreted-in anchoring parts, e. g. when renovating existing structures.





Item No.	Designation	Packing unit pieces/box	Weight kg/piece
	Rock anchor B15 Rock anchor B20	50 15	0.420 1.331
204918801	*Rock anchor testing device	1	17.800
20491812	SDS hammer drill 37 x 570 x 450 mm	1	1.700
90210120	Placing tool for rock anchor B15	1	2.500
90210130	Placing tool for rock anchor B20	1	6.620
90210140	Cleaning brush for rock anchor	1	0.153
**Available	for hire on request		

...always the right solution.

Bore hole depths / working loads: B15: Bore hole Ø 36,5-38 mm using a 37 mm drill

- B15: Bore hole 0, 36,5-38 mm using a 37 mm drill (recommended)
 B15: Bore hole depths for 90 kN working load: min. 21 cm in concrete C2025
 B20: Bore hole 0 5.2,0 mm usin. 21 cm in concrete C2025
 B20: Bore hole 0 5.2,0 mm usin. 20 cm in concrete C2025
 Placing depth in bed rock depending on strength. Williams using depth in bed rock depending on strength will be concrete C2025
 Placing depth in bed rock depending on strength. So there has depth dept

Conduct tensile test before applying final load

Test load can be applied with BETOMAX® rock anchor testing device – please ask for details



FITSCH®



Item No.	Designation	Dimension mm axbxc	unit	Weight kg/piece
	FITSCH® B15 FITSCH® B20	130x30x50 Ø 60 / h=70	50 1	0.400 1.340





Weld seam's compliance with DIN 18800 to be statically verified

SC YEars

Anchoring technology Single-ended rods

Range 2013 Anchoring technology

Reinforcement technology Bridge building

technology

Construction joint technology

Shuttering system technology

Building materials

technology

Spacer technology

Tubular spreader technology

Work aids

Index

Contact

Sales



Search Print Quit

Weldable socket B15/80 S 355 (St52-3)



CLIMAX® anchoring sleeve

Item No.	Designation	Packing unit pieces/box	Weight kg/piece
20198300	Weldable socket B15/80 S 355 (St52-3)	50	0.300

Item No	. Designation	Packing unit pieces	Weight kg/piece
2046820	0 CLIMAX® sleeve	50	0.051
2046830	0 CLIMAX** nailable cap	50	0.007
2046840	0 CLIMAX [®]	50	0.007
2046850	O CLIMAX [®] sleeve and nailable cap	50	0.058
9200103	2 Socket with tommy bar for nailable disc	1	0.340

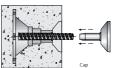
CLIMAX® - Fifty



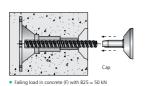
rtem No.	Designation	unit pieces	kg/piece
20468250	CLIMAX®-Fifty sleeve	50	0.047
20468300	CLIMAX [®] nailable cap	50	0.007
20468400	CLIMAX [®] cap	50	0.007
20468550	CLIMAX®-Fifty sleeve and nailable cap	50	0.054
92001032	Socket with tommy bar for nailable disc	1	0.340

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Failing load in concrete (F) with B25 = 32 kN



Et = Installed depth



Range 2013

Anchoring technology Reinforcement

technology

Bridge building technology

Construction joint technology

Shuttering system technology

Building materials technology

Spacer technology

Tubular spreader technology

Work aids

Contact

Sales



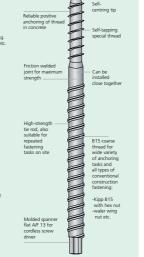
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Anchoring technology Single-ended rods

K-TEC-3s^o – Applications, properties, benefits

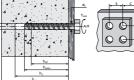
The BETOMAX® K-TEC-3s® can be reused several times and combines the benefits of a coarse thread for temporary machine fastening with those of a self-tapping concrete screw.

Resists high loads Thanks to perfect po



K-TEC-3s° concrete anchor bolt	Item No.	Designation	Packing unit piece	Weight kg/piece
K-TFC-3s® with	18602230	K-TEC-3s ^o B15 B12 x 10 / I = 230 mm	1	0.300
B15 thread	18602280	K-TEC-3sº B15 B12 x 10 / I = 280 mm	1	0.400
	18602400	K-TEC-3s ^o B15 B12 x 10 / L = 400 mm	1	0.580
K-TEC-30° with 815 thread	18602600	K-TEC-3s ^o B15 B12 x 10 / L = 600 mm	1	0.800
	20020950	Kipp B15 round with hex nut, galvanized	1	0.770
K-TEC-3s ^o B12 hex nut				

MULTI-MONTI® screw anchor For securing quide posts and BETOMAX®	Item No.	Designation	Packing unit pieces/box	A/F	Weight kg/piece	
kerb shuttering, galvanized.	74416120	MULTI-MONTI® screw anchor 16x120	10	24	0.180	
A THE PARTY OF THE	74416150	MULTI-MONTI® screw anchor 16x150	10	24	0.240	
a-million of the same of the s	74412080	MULTI-MONTI® screw anchor 12x80	10	18	0.140	
	Different dia	meters available on	request.			



imply insta

...always the right solution.

Anchor plug size				MMS-12	MMS-16
				gvz	gvz
Approval Notification No. ETA 05/				0010	0010
Largest permissible tensile load" "N _{zul} " for	one an	chor	plug witho	ut rim effect 1)	
Cracked concrete C20/25 ³⁾			[kN]	4.9	12.1
Non-cracked concrete C20/25 3)			[kN]	6.5	16.4
Largest permissible shearing force*) "V"	for one	anch	or plug with	hout rim effect 2)	
Cracked concrete C20/25 ³⁾			[kN]	12.8 5)	24.2 5)
Non-cracked concrete C20/25 1)			[kN]	12.8 5	24.2 5)
Permissible bending moment" "M.""					
			[Nm]	40.4	107.1
Component dimensions and installation p	aramete	ers			
Nominal drill diameter	d,	=	[mm]	10.0	14.0
Drill hole depth	h,	2	[mm]	85.0	130.0
Total anchoring depth	h _{nom}	2	[mm]	75.0	115.0
Computed anchoring depth	h _{ef}	=	[mm]	54.5	87.5
Min. axis distance	Smin	=	[mm]	60.0	100.0
Min. rim distance	C _{min}	=	[mm]	60.0	100.0
Min. component thickness	h _{min}	=	[mm]	125.0	180.0
Through-hole in component to be connected	d,	≤	[mm]	14.0	18.0
Recommended max. tightening torque 4)	Time	=	[Nm]	55.0	110.0
* Please note that the entire approval notification must be obser		imensio	ning sizes.		
Remarques: 11 c \geq 1.5 x h_{el} and s \geq 3 x h_{el}					

- fficients specified in the approval notifications for the anchor plug resistances and the partial safety coefficient for the effect of y₀ = 1.35 account. Please observe the specifications for Design Method A set out in Appendix C of ETAG or our design aid in the event of combined loads you as well as the effects of ease and in the event of combined loads you as well as the effects of ease and in the event of combined loads you as well as the effects of ease and in the event of combined loads you as well as the effects of ease and in the event of combined loads you.