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Substrate		Concrete and full bricks with high compressive strength				Perforated and full bricks with low compressive strength							Drywall		
		Concrete	Solid brick	Solid clinker	Full sand-lime brick	Light concrete full brick	Gypsum wallboard	Perforated sand-lime brick	sand-lime cavity brick	Vertical coring brick	Aerated concrete	Hollow concrete blocks	Plasterboard	Gypsum board	Chipboard
Plug/Art.-No.	Article														
Universal plug: 20000; 20110; 20200; 24000		✓	✓	✓	✓	✓		✓			✓				
Multiplug: 22000; 22100		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Megaplug: 21000; 21100		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
long-expansion nylon plug: 22910			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Universal metal anchor: 77000		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Nailplug: 22350; 22360; 22344; 22333; 21400; 22450; 70250; 70265; 22500; 22854; 22180		✓	✓	✓	✓	✓		✓	✓	✓					
long-expansion nailplug: 22215; 22954			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Mushroom head nailplug: 25600; 25800		✓	✓	✓	✓	✓									
Quick anchor: 79000; 23550		✓	✓	✓	✓										
AUR 10 frame anchor ETAG 020: 22700; 22710		 ✓	 ✓	 ✓	 ✓	 ✓	✓	 ✓	 ✓	 ✓	✓	 ✓			
AUR 10 frame anchor: 22705; 22715		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Frame anchor: 22851; 22852; 22853		✓	✓	✓	✓	✓		✓							
Long-expansion frame anchor: 22951; 22952; 22953			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Knotting frame anchor: 22955						✓		✓	✓	✓	✓	✓			
Window frame anchor: 72830		✓	✓	✓	✓										
Window frame screw: 84000		✓	✓	✓	✓	✓		✓							
Chemical mortar ETAG 001 + 029: 40000		 ✓	 ✓	 ✓	 ✓	✓	✓	 ✓ ¹	 ✓ ¹	 ✓ ¹	✓ ¹	 ✓ ¹			
Wedge anchor ETAG 001 - option 1: 72100		 ✓	✓	✓	✓	✓									
Wedge anchor ETAG 001 - option 7: 72300		 ✓	✓	✓	✓	✓									

✓¹ in conjunction with perforated sleeves

Substrate		Concrete and full bricks with high compressive strength				Perforated and full bricks with low compressive strength								Drywall		
		Concrete	Solid brick	Solid clinker	Full sand-lime brick	Light concrete full brick	Gypsum wallboard	Perforated sand-lime brick	sand-lime cavity brick	Vertical coring brick	Aerated concrete	Hollow concrete blocks	Plasterboard	Gypsum board	Chipboard	
Plug/Art.-No.	Article															
Wedge anchor: 72000		✓	✓	✓	✓											
Brass anchor: 27000		✓	✓	✓	✓											
Concrete screw ETAG 001 - option 1: 73100		 ✓	✓	✓	✓											
Insulation fixing: 23000; 23150		✓	✓	✓	✓											
Insulation fixing: 23100; 23250		✓	✓	✓	✓											
Insulation board plug: 23350; 23450		✓	✓	✓	✓											
Iso-Universalanchor ETAG 014: 23470		 ✓	 ✓	 ✓	 ✓	✓	✓	 ✓	 ✓	 ✓	✓	 ✓				
8er/10er Universalanchor: 23480; 23460		✓	✓	✓	✓	✓										
Iso-Universalanchor L: 23490			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Light insulation board anchor: 23600		✓	✓	✓	✓											
Insulation fixing metal: 23560; 23565		✓	✓	✓	✓											
Rivet plug, metal plug: 78200; 78300; 79200		✓	✓	✓	✓											
Ceiling anchor ETAG 001: 79400		 ✓	✓	✓	✓											
Cavity anchor: 70100													✓	✓	✓	
Speedplug: 26000													✓	✓		
Metal speedplug: 26100													✓	✓		
Light concrete plug: 26500											✓					
Light concrete nail: 77500											✓					

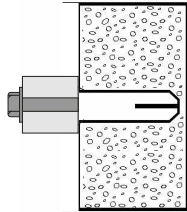
✓¹ in conjunction with perforated sleeves

Document about basic knowledge of plugs

The following information document should help for selecting the right product.

1. Types of assembling

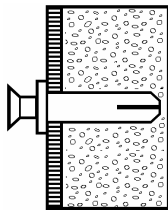
Differentiating between three assembling types.



The pre-assembling

The plug will be stuck into the drill hole resulting in a flush surface. Afterwards the fixing element will be bolt to the surface. Mainly used for single fixings.

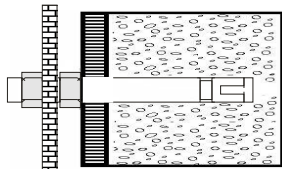
Examples: Mega plug, All plug



Push through installation

In most cases it is been used for assembling parts such as lasts or frames, where more than one fixing point appears.

Examples: nail plugs, frame anchor



Stand-off installation

It guarantees a pressure and tensile strength fixing with distance to the fixing surface.

Examples: allchem, dowelled anchor

2. Loading classification

In order to choose the right plug it's not only important to know the assembling type and the fixing surface as well as to know the forces affecting the fastening element.

Differentiating between forces: stated in kilonewton (kn) and the bending moment stated in newtonmeter (Nm).

tensile force



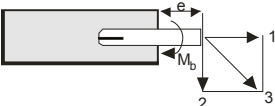
compressive force



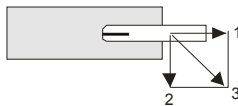
shear force



bevel force with distance



bevel force



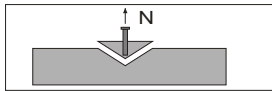
shear force with distance



1= tensile/compressive force, 2= shear force, 3= resulting force, Mb= bending moment

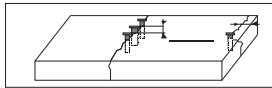
If overstepping above mentioned forces: Failure types appearing.

3. Different types of failure

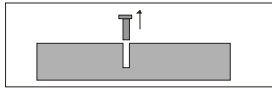


Cracking of the fixing surface:

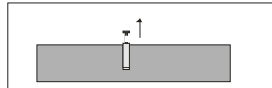
- to big tensile- or shear force
- hardness of the building material to low
- setting deepness of the plug to low
- a to minute building element
- thinning of specified periphery/axes separation
- to high expanding pressure of the fastener
- spreading pressure is not adequate due to force or incorrect assembling.



Resolving of the building material:



Extracting of the plug:



Cracking of steel:

- to low steel strength of the effecting load

4. Selecting the plug taking into account the number and load.

For calculating in the first place, the breaking load is the term to be used.

The breaking load is the failure, until the fastener breaks.

i.e. extracting or cracking of the fixing surface.

They will be determined through samplings, whereas five extracting samples take place and the average will be identified.

Our products which got an approval have allowed forces, which are validly stated if complying to the approved terms and conditions.

The loads that are given at our testing reports are characteristical breaking loads.

These loads are determined by at least ten extracting samples until it's failure.

Afterwards calculating through statistical methods, which failure loads have been reached in 95 % of cases.

The plug selection will be calculated by taking the loads out of the test reports and dividing that by the safety factor, this is called the **maximum recommended working load**.

$$\text{Maximum working load} = \frac{\text{failure load (F)}}{\text{safety factor (} \gamma \text{)}}$$

Recommended safety factor in concrete :	steel and bonded anchors	γ	≥ 3
	plastic plugs	γ	≥ 5

Example: Nail plug 6 mm, given load in the test report for concrete B 25 (C 20) = 1,4 kN

$$1,4 \text{ kN} : 5 = 0,28 \text{ kN}$$

The complete test report can be found as a download at our web-page:

www.allfa-germany.de

alldübel nylon

article group 20000

Wall-plug of high quality nylon with screw guidance and anti-rotating-system.

It can be used with several kinds of screws as woodscrews or chipboardscrews.

The plug works in all building materials with high densities such as concrete or bricks.

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
20000-4	4 x 20	4	2,0 - 3,0	100	20,000
20000-5	5 x 25	5	2,6 - 4,0	100	10,000
20000-6	6 x 30	6	3,5 - 5,0	100	10,000
20000-7	7 x 30	7	4,0 - 5,5	100	10,000
20000-8	8 x 40	8	4,5 - 6,0	100	5,000
20000-10	10 x 50	10	6,0 - 8,0	50	2,500
20000-12	12 x 60	12	8,0 - 10,0	25	1,250
20000-14	14 x 70	14	10,0 - 12,0	20	1,000
20000-16	16 x 80	16	12,0 - 14,0	10	500

also available in bulk packaging



alldübel plastic

article group 20110

Wall-plug of high quality plastic with screw guidance and anti-rotating-system.

It can be used with diverse kinds of screws as woodscrews or chipboardscrews.

The plug works in all building materials with high densities as concrete or bricks.

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
20110-5	5 x 25	5	2,6 - 4,0	100	10,000
20110-6	6 x 30	6	3,5 - 5,0	100	10,000
20110-7	7 x 30	7	4,0 - 5,5	100	5,000
20110-8	8 x 40	8	4,5 - 6,0	100	5,000
20110-10	10 x 50	10	6,0 - 8,0	50	2,500
20110-12	12 x 60	12	8,0 - 10,0	25	1,250
20110-14	14 x 70	14	10,0 - 12,0	20	1,000

also available in bulk packaging



alldübel with flange nylon

article group 24000

Wall-plug of high quality nylon with screw guidance and anti-rotating-system.

The plug is constructed with a flange to avoid slipping into the drill hole.

It can be used with several kinds of screws as woodscrews or chipboardscrews.

The plug works in all building materials with high densities as concrete or bricks.

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
24000-5	5 x 25	5	2,6 - 4,0	100	10,000
24000-6	6 x 30	6	3,5 - 5,0	100	10,000
24000-7	7 x 30	7	4,0 - 5,5	100	5,000
24000-8	8 x 40	8	4,5 - 6,0	100	5,000
24000-10	10 x 50	10	6,0 - 8,0	50	2,500
24000-12	12 x 60	12	8,0 - 10,0	25	1,250
24000-14	14 x 70	14	10,0 - 12,0	20	1,000

also available in bulk packaging



mega plug

article group 21000, with flange

article group 21100, without flange

Wall-plug with or without flange, made of special plastic. In solid material the plug spreads (4 expansion zones) and in hollow or cavity material it forms a knot.

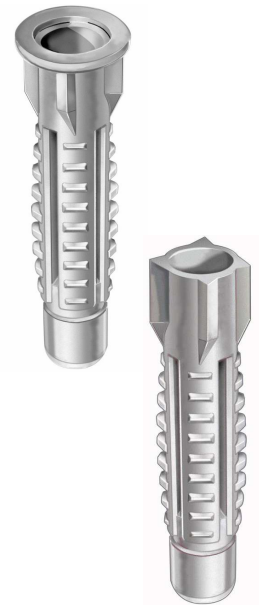
The flange prevents the plug from penetrating too deep into the drilled hole.

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
21000-6	6 x 40	6	4	100	6,000
21000-8	8 x 50	8	5	100	3,000
21000-10	10 x 60	10	6	50	1,500

also available in bulk packaging

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
21100-6	6 x 40	6	4	100	6,000
21100-8	8 x 50	8	5	100	3,000
21100-10	10 x 60	10	6	50	1,500

also available in bulk packaging



multi plug

article group 22000, with flange

article group 22100, without flange

Wall-plug with or without flange, made of special plastic. In solid material the plug spreads (3 expansion zones) and in hollow or cavity material it forms a knot.

The flange prevents the plug from penetrating too deep into the drilled hole.

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
22000-5	5 x 32	5	3.5	100	6,000
22000-6	6 x 36	6	4	100	6,000
22000-8	8 x 50	8	4.5	100	3,000
22000-10	10 x 60	10	6	50	1,500
22000-12	12 x 70	12	8	25	750
22000-14	14 x 75	14	10	20	600

also available in bulk packaging

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
22100-5	5 x 32	5	3.5	100	6,000
22100-6	6 x 36	6	4	100	6,000
22100-8	8 x 50	8	4.5	100	3,000
22100-10	10 x 60	10	6	50	1,500
22100-12	12 x 70	12	8	25	750
22100-14	14 x 75	14	10	20	600

also available in bulk packaging



long-expansion plug nylon, for penetration fixings

article group 22910

Nylon plug with extended expansion zone.

Suitable for fixings on hollow and cavity bricks and other low-density material.

Recommended to use with screws of 5 mm.

article no.	dimension Ø x l mm	drill mm	setting depth mm	quantity per	
				box	carton
22910-880	8 x 80	8	80	100	1,000



universal-metal-anchor

article group 77000

Steel anchor, blue zinc plated.

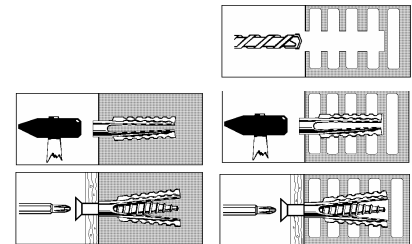
Suitable for fixings in light concrete, cavity bricks and concrete.

In light concrete this anchor can be hammered in without pre-drilling.

In harder material pre-drilling is necessary as usual.

Attention: The harder the building material the thicker must be the drill hole.

In combination with a metal screw this anchor complies with the technical regulations for assembling gas-main systems, acc. TRGI 3.3.7.1 in Germany.



article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
77000-530	5 x 30	5 - 7	4,0 - 5,0	200	2,000
77000-632	6 x 32	7 - 9	5,0 - 6,0	200	2,000
77000-838	8 x 38	10 - 12	6,0 - 8,0	100	1,000
77000-860	8 x 60	10 - 12	6,0 - 8,0	100	1,000
77000-1060	10 x 60	12 - 14	8,0 - 10,0	100	1,000



alldübel - long shaft nylon

article group 20200

Nylon plug for scaffold anchoring.

Together with eye-bolts (art. no.: 82000) in 12 mm it builds an anchor system according to DIN 4420.

The flange provides the plug from slipping into the drill hole.

Re-use of the plug is not permitted.

article no.	dimension Ø x l mm	drill mm	screw Ø in mm	quantity per	
				box	carton
20200-14100	14 x 100	14	10,0 - 12,0	50	500
20200-14135	14 x 135	14	10,0 - 12,0	50	500
20200-14185	14 x 185	14	10,0 - 12,0	25	250

also available in bulk packaging



cover caps

article group 29100 and 29300 transparent

Cover caps, threaded, made of plastic. Suits on wall-plugs with 12 mm or 14 mm-diameter.

Transparent cover caps can easily be painted over.

article no.	dimension Ø x l mm	plug mm	head Ø in mm	quantity per	
				bag	carton
29100-1440	14 x 40	12 und 14	21	100	5,000
29100-1480	14 x 80	12 und 14	21	100	2,500
29300-1440	14 x 40	12 und 14	28	100	4,000
29300-1480	14 x 80	12 und 14	28	100	2,000

also available in bulk packaging

other colours on request



sealing washer

article group 62000 transparent

Sealing washer, to seal the drill hole, to be used with eye-bolts 12 mm

article no.	diameter Ø mm	eye-bolt Ø mm	core hole Ø mm	quantity per	
				bag	carton
62000-12	32	12	12	250	

other colours on request



eye-bolts blue zinc plated

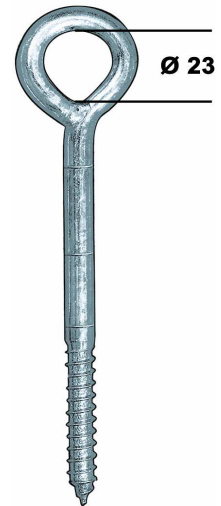
article group 82000

Eyes welded. A simplified insertion of the eye-bolt is guaranteed by screw-in markings.

For optimal use we recommend the long shaft nylon plug (art. no.: 20200)

and cover caps for covering the drill holes after use of the eye-bolt (art. no.: 29100-29400).

article no.	dimension		eye Ø mm	quantity carton
	Ø mm	length mm		
82000-1290	12	90	23	50
82000-12120	12	120	23	50
82000-12160	12	160	23	50
82000-12190	12	190	23	50
82000-12230	12	230	23	50
82000-12300	12	300	23	50
82000-12350	12	350	23	50
82000-12400	12	400	23	50
82000-12450	12	450	23	50
82000-12500	12	500	23	25
82000-12550	12	550	23	25
82000-12600	12	600	23	25

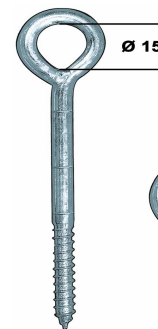


eye-bolts blue zinc plated, for plug Ø 10 mm

article group 82000

Eyes welded.

article no.	dimension		eye Ø mm	quantity carton
	Ø mm	length mm		
82000-85015	8	50	15	50
82000-88015	8	80	15	50
82000-810015	8	100	15	50
82000-812015	8	120	15	50
82000-815015	8	150	15	50
82000-820015	8	200	15	50
82000-88022	8	80	22	50
82000-810022	8	100	22	50
82000-812022	8	120	22	50



hammer head screw

article group 82500

Hammer head screw for scaffolding couplings with a total length of 82 mm.

The item is made of 5.8 quality steel, blue passivated.

Flange nuts to fit (art. no.: 82600).

article no.	dimension		quantity carton
	Ø mm	length mm	
82500-1482	M 14	82	50



flange nut

article group 82600

Flange nut to fit hammer head screw (art. no.: 82500) with across-flats dimension of 22 mm.

The item is made of 5.8 quality steel, blue passivated.

article no.	dimension		wrench size	quantity carton
	Ø mm	height mm		
82600-1422	M 14	19	22	50



nail plug, pre-assembled

article group 22350, cylindrical head

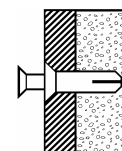
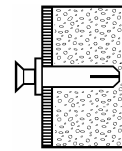
article group 22360, countersunk head

The article consists of a nylon plug with cylindrical or countersunk head and a pozidriv nail, blue zinc plated. It is suitable for indoor fixings on concrete, bricks and other high-density material, especially for fast assembling.

The cylindrical head is recommended to fix thin-walled constructions made out of metal or plastic, e.g. frameworks, shields or cable conduits.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22350-525	5 x 25	5	5	200	2,000
22350-530	5 x 30	5	10	200	2,000
22350-535	5 x 35	5	15	200	2,000
22350-540	5 x 40	5	20	200	2,000
22350-550	5 x 50	5	30	200	2,000
22350-560	5 x 60	5	40	200	2,000
22350-625	6 x 25	6	1	200	2,000
22350-630	6 x 30	6	5	200	2,000
22350-635	6 x 35	6	10	200	2,000
22350-640	6 x 40	6	15	200	2,000
22350-650	6 x 50	6	25	200	2,000
22350-660	6 x 60	6	35	200	2,000
22350-680	6 x 80	6	55	200	2,000
22350-6100	6 x 100	6	75	100	1,000
22350-850	8 x 50	8	10	100	1,000
22350-860	8 x 60	8	20	100	1,000
22350-880	8 x 80	8	40	100	1,000
22350-8100	8 x 100	8	60	100	1,000
22350-8120	8 x 120	8	80	100	1,000
22350-8140	8 x 140	8	100	100	1,000

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22360-525	5 x 25	5	5	200	2,000
22360-530	5 x 30	5	10	200	2,000
22360-535	5 x 35	5	15	200	2,000
22360-540	5 x 40	5	20	200	2,000
22360-550	5 x 50	5	30	200	2,000
22360-560	5 x 60	5	40	200	2,000
22360-625	6 x 25	6	1	200	2,000
22360-630	6 x 30	6	5	200	2,000
22360-635	6 x 35	6	10	200	2,000
22360-640	6 x 40	6	15	200	2,000
22360-650	6 x 50	6	25	200	2,000
22360-660	6 x 60	6	35	200	2,000
22360-680	6 x 80	6	55	200	2,000
22360-6100	6 x 100	6	75	100	1,000
22360-850	8 x 50	8	10	100	1,000
22360-860	8 x 60	8	20	100	1,000
22360-880	8 x 80	8	40	100	1,000
22360-8100	8 x 100	8	60	100	1,000
22360-8120	8 x 120	8	80	100	1,000
22360-8140	8 x 140	8	100	100	1,000
22360-8160	8 x 160	8	120	100	1,000



nail plug stainless steel V2A, pre-assembled

article group 22333, countersunk head

article group 22344, cylindrical head

Chromium-Nickel steel, stainless acc. to DIN 1.4301 / AISI 304

The article consists of a nylon plug with cylindrical or countersunk head and a pozidriv nail, stainless steel V2A. It is suitable for outdoor and wet-room fixings on concrete, bricks and other high-density material.

The cylindrical head is recommended to fix thin-walled constructions made out of metal or plastic, e.g. frameworks, shields or cable conduits.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22333-530	5 x 30	5	10	200	2,000
22333-540	5 x 40	5	20	200	2,000
22333-550	5 x 50	5	30	200	2,000
22333-560	5 x 60	5	40	200	2,000
22333-630	6 x 30	6	5	200	2,000
22333-640	6 x 40	6	15	200	2,000
22333-650	6 x 50	6	25	200	2,000
22333-660	6 x 60	6	35	200	2,000
22333-680	6 x 80	6	55	200	2,000
22333-860	8 x 60	8	20	100	1,000
22333-880	8 x 80	8	40	100	1,000
22333-8100	8 x 100	8	60	100	1,000

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22344-530	5 x 30	5	10	200	2,000
22344-540	5 x 40	5	20	200	2,000
22344-550	5 x 50	5	30	200	2,000
22344-560	5 x 60	5	40	200	2,000
22344-630	6 x 30	6	5	200	2,000
22344-640	6 x 40	6	15	200	2,000
22344-650	6 x 50	6	25	200	2,000
22344-660	6 x 60	6	35	200	2,000
22344-680	6 x 80	6	55	200	2,000
22344-860	8 x 60	8	20	100	1,000
22344-880	8 x 80	8	40	100	1,000
22344-8100	8 x 100	8	60	100	1,000



long-expansion nail plug, not pre-assembled

article group 22215

The article consists of a nylon plug, countersunk head, with an extended expansion zone and a pozidriv nail, blue zinc plated.

Suitable for fixings on cavity bricks and other hollow or low-density material.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22215-8100	8 x 100	8	20	100	1,000
22215-8120	8 x 120	8	40	100	1,000
22215-8140	8 x 140	8	60	50	500



nail plug Ø 10 mm, not pre-assembled

article group 22854

The article consists of a nylon plug with countersunk head and a pozidriv nail, blue zinc plated. It is suitable for fixings on concrete, bricks and other high-density material.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22854-1080	10 x 80	10	30	50	500
22854-10100	10 x 100	10	50	50	500
22854-10120	10 x 120	10	70	50	500
22854-10140	10 x 140	10	90	50	500
22854-10160	10 x 160	10	110	50	500



long-expansion nail plug Ø 10 mm, not pre-assembled

article group 22954

The article consists of a nylon plug, countersunk head, with an extended expansion zone and a pozidriv nail, blue zinc plated.

Suitable for fixings on cavity bricks and other hollow or low-density material.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22954-10100	10 x 100	10	20	50	500
22954-10120	10 x 120	10	40	50	500
22954-10140	10 x 140	10	60	50	500
22954-10160	10 x 160	10	80	50	500



nail plug plus, pre-assembled

article group 22450

The article consists of a nylon plug with cylindrical head, a pozidriv nail and a washer, both blue zinc plated.

Suitable for fixings of metal sheets on concrete, bricks and other high-density material.

The big washer avoids slipping through wide-meshed profiles.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22450-640	6 x 40	6	15	200	2,000
22450-660	6 x 60	6	35	100	1,000
22450-680	6 x 80	6	55	100	1,000

other dimensions on request



nail plug M, pre-assembled

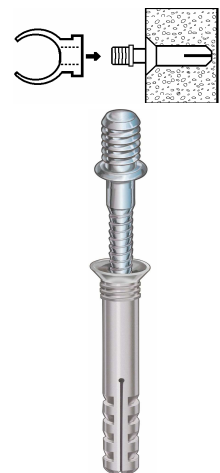
article group 22500

The article consists of a nylon plug with countersunk head and a steel nail with threaded head, blue zinc plated.

Suitable for fixings of pipe clamps on concrete, bricks or other high-density material.

A special shape of the head avoids damage during hammering in.

article no.	dimension Ø x l mm	drill mm	length of thread mm	quantity per	
				box	carton
22500-M6	6 x 40	6	6 / M6	200	2,000
22500-M7	6 x 40	6	6 / M7	200	2,000
22500-M7x15	6 x 40	6	6 / M7 x 1,5	200	2,000
22500-M8	8 x 50	8	8 / M8	100	1,000



nail plug with big flange, not pre-assembled

article group 22180

The article consists of a nylon plug with cylindrical headed flange and a pozidriv nail, blue zinc plated. Suitable for fixings of metals, angles and profiles on concrete, bricks and other high-density material.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22180-845	8 x 45	8	5	100	1,000



colour nail plug, pre-assembled

article group 21400 - white

article group 21401 - grey

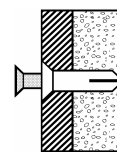
article group 21407 - brass

article group 21408 - brown

article group 21410 - black

The article consists of a nylon plug with countersunk head and a coloured pozidriv nail.

Especially for colour matching fixings of lathes etc.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
21400-530	5 x 30	5	10	200	2,000
21400-540	5 x 40	5	20	200	2,000
21400-550	5 x 50	5	30	200	2,000
21400-560	5 x 60	5	40	200	2,000
21401-530	5 x 30	5	10	200	2,000
21401-540	5 x 40	5	20	200	2,000
21401-550	5 x 50	5	30	200	2,000
21401-560	5 x 60	5	40	200	2,000
21407-530	5 x 30	5	10	200	2,000
21407-540	5 x 40	5	20	200	2,000
21407-550	5 x 50	5	30	200	2,000
21407-560	5 x 60	5	40	200	2,000
21408-530	5 x 30	5	10	200	2,000
21408-540	5 x 40	5	20	200	2,000
21408-550	5 x 50	5	30	200	2,000
21408-560	5 x 60	5	40	200	2,000
21410-530	5 x 30	5	10	200	2,000
21410-540	5 x 40	5	20	200	2,000
21410-550	5 x 50	5	30	200	2,000
21410-560	5 x 60	5	40	200	2,000



nail plug bucket

article group 42350, cylindrical head

article group 42350, countersunk head

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity
				bucket
42350-635	6 x 35	6	10	1,000
42350-640	6 x 40	6	15	1,000
42350-650	6 x 50	6	25	1,000
42350-660	6 x 60	6	35	1,000
article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity
				bucket
42360-635	6 x 35	6	10	1,000
42360-640	6 x 40	6	15	1,000
42360-650	6 x 50	6	25	1,000
42360-660	6 x 60	6	35	1,000

other dimensions on request



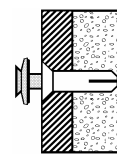
sealing nail plug copper, pre-assembled

article group 70250

Chromium-Nickel steel, stainless acc. to DIN 1.4301 / AISI 304, copper-coated

The article consists of a nylon plug with countersunk head, a pozidriv nail and a washer with vulcanized neoprene-sealing, both made of stainless steel copper-coated. Suitable for fixings of metal or plastic plates on concrete, bricks or other high-density material. The pre-assembled washer assures a dry and clean fixing even on outside constructions.

The sealing nail plug is a modern alternative to plumber's sealing screws.



article no.	dimension Ø x l mm	washer Ø mm	drill mm	eff. length max. mm	quantity per	
					box	carton
70250-63015	6 x 30	15	6	5	200	2,000
70250-64015	6 x 40	15	6	15	200	2,000
70250-65015	6 x 50	15	6	25	100	1,000
70250-66015	6 x 60	15	6	35	100	1,000
70250-63020	6 x 30	20	6	5	200	2,000
70250-64020	6 x 40	20	6	15	200	2,000
70250-65020	6 x 50	20	6	25	100	1,000
70250-66020	6 x 60	20	6	35	100	1,000

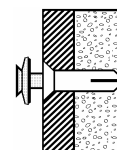
sealing nail plug stainless steel V2A, pre-assembled

article group 70265

Chromium-Nickel steel, stainless acc. to DIN 1.4301 / AISI 304

The article consists of a nylon plug with countersunk head, a pozidriv nail and a washer with vulcanized neoprene-sealing, both made of stainless steel. Suitable for fixings of metal or plastic plates on concrete, bricks or other high-density material. The pre-assembled washer assures a dry and clean fixing even on outside constructions.

The sealing nail plug is a modern alternative to plumber's sealing screws.



article no.	dimension Ø x l mm	washer Ø mm	drill mm	eff. length max. mm	quantity per	
					box	carton
70265-63015	6 x 30	15	6	5	200	2,000
70265-64015	6 x 40	15	6	15	200	2,000
70265-65015	6 x 50	15	6	25	100	1,000
70265-66015	6 x 60	15	6	35	100	1,000
70265-63020	6 x 30	20	6	5	200	2,000
70265-64020	6 x 40	20	6	15	200	2,000
70265-65020	6 x 50	20	6	25	100	1,000
70265-66020	6 x 60	20	6	35	100	1,000

mushroom head nail plug, not pre-assembled coloured plug and coloured nail

article group 25800 - white

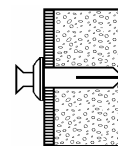
article group 25808 - brown

article group 25812 - grey

The article consists of a coloured pozidriv nail and a coloured mushroom head nail plug.

Suitable for fixings of signs, lathes and cable channels on concrete, bricks and other high-density material.

Concerted colour of nail and plug enables perfectly visible fixings.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
25800-625	6 x 25	6	5	200	2,000
25800-635	6 x 35	6	10	200	2,000
25800-645	6 x 45	6	20	200	2,000
25800-655	6 x 55	6	30	200	2,000
25808-625	6 x 25	6	5	200	2,000
25808-635	6 x 35	6	10	200	2,000
25808-645	6 x 45	6	20	200	2,000
25808-655	6 x 55	6	30	200	2,000
25812-625	6 x 25	6	5	200	2,000
25812-635	6 x 35	6	10	200	2,000
25812-645	6 x 45	6	20	200	2,000
25812-655	6 x 55	6	30	200	2,000

mushroom head nail plug, not pre-assembled coloured plug and stainless steel nail V2A

article group 25601 - white

article group 25609 - brown

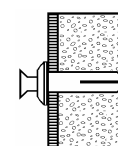
article group 25613 - grey

Chromium-Nickel steel, stainless acc. to DIN 1.4301 / AISI 304

The article consists of a stainless steel nail and a coloured mushroom head plug.

Suitable for fixings of signs, lathes and cable channels on concrete, bricks and other high-density material.

Especially recommended for outdoor application due to a stainless steel nail.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
25601-625	6 x 25	6	5	200	2,000
25601-635	6 x 35	6	10	200	2,000
25601-645	6 x 45	6	20	200	2,000
25601-655	6 x 55	6	30	200	2,000
25609-625	6 x 25	6	5	200	2,000
25609-635	6 x 35	6	10	200	2,000
25609-645	6 x 45	6	20	200	2,000
25609-655	6 x 55	6	30	200	2,000
25613-625	6 x 25	6	5	200	2,000
25613-635	6 x 35	6	10	200	2,000
25613-645	6 x 45	6	20	200	2,000
25613-655	6 x 55	6	30	200	2,000

quick anchor, spring-loaded steel

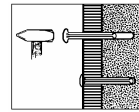
article group 79000

Anchor made of spring-loaded steel, blue zinc plated.

Suitable for fixings of metal profiles and lath-subconstructions on concrete, bricks and other high-density material.

Especially recommended if plastic plugs are not allowed to use due to fire protection requirements.

Interlock prevents linking of anchors among each other.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
79000-526	5 x 26	5	6	500	5,000
79000-630	6 x 30	6	5	200	2,000
79000-640	6 x 40	6	10	200	2,000
79000-650	6 x 50	6	20	200	2,000
79000-660	6 x 60	6	30	200	2,000
79000-680	6 x 80	6	50	200	2,000
79000-6100	6 x 100	6	70	200	2,000
79000-870	8 x 70	8	30	100	1,000
79000-890	8 x 90	8	50	100	1,000
79000-8110	8 x 110	8	70	100	1,000
79000-8130	8 x 130	8	90	100	1,000
79000-8150	8 x 150	8	110	100	1,000
79000-8180	8 x 180	8	140	100	1,000

AUR 10 universal frame anchor, ETAG 020 approval

article group 22700 with hexagon head screw

article group 22710 with countersunk head screw



The "AUR 10" consists of a nylon plug and a hexagon head screw, blue zinc plated, or a countersunk head screw, blue zinc plated.

It is applicable for almost all construction materials (e.g. concrete, full bricks, hollow bricks, lightweight blocks, etc.)

It spreads in solid materials and knots in hollow materials.

For metal constructions we recommend to use hexagon head screws,
for wooden constructions we recommend to use countersunk head screws.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22700-1080	10 x 80	10	20	50	500
22700-10100	10 x 100	10	40	50	500
22700-10120	10 x 120	10	60	25	250
22700-10140	10 x 140	10	80	25	250
22700-10160	10 x 160	10	100	25	250
22700-10180	10 x 180	10	120	25	250

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22710-1080	10 x 80	10	20	50	500
22710-10100	10 x 100	10	40	50	500
22710-10120	10 x 120	10	60	50	500
22710-10140	10 x 140	10	80	25	250
22710-10160	10 x 160	10	100	25	250
22710-10180	10 x 180	10	120	25	250
22710-10200	10 x 200	10	140	25	250
22710-10230	10 x 230	10	170	25	250
22710-10260	10 x 260	10	200	25	250



AUR 10 universal frame anchor

article group 22705 with hexagon head screw

article group 22715 with countersunk head screw

like article group 22700/22710, but without ETAG approval.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22705-1080	10 x 80	10	20	50	500
22705-10100	10 x 100	10	40	50	500
22705-10120	10 x 120	10	60	25	250
22705-10140	10 x 140	10	80	25	250
22705-10160	10 x 160	10	100	25	250
22705-10180	10 x 180	10	120	25	250

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22715-1080	10 x 80	10	20	50	500
22715-10100	10 x 100	10	40	50	500
22715-10120	10 x 120	10	60	50	500
22715-10140	10 x 140	10	80	25	250
22715-10160	10 x 160	10	100	25	250
22715-10180	10 x 180	10	120	25	250



frame anchor, countersunk head screw

article group 22852

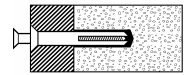
The article consists of a nylon plug with countersunk head and a countersunk head screw, blue zinc plated.

Suitable for fixings on concrete, bricks and other high-density material.

With its long shank the frame anchor is perfect suitable for through fixings.

The allround imprint enables higher power transmission during screwing and enables attaching of cover caps.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22852-860	8 x 60	8	20	100	1,000
22852-880	8 x 80	8	40	100	1,000
22852-8100	8 x 100	8	60	100	1,000
22852-8120	8 x 120	8	80	100	1,000
22852-8140	8 x 140	8	100	50	500
22852-1080	10 x 80	10	30	50	500
22852-10100	10 x 100	10	50	50	500
22852-10120	10 x 120	10	70	50	500
22852-10140	10 x 140	10	90	50	500
22852-10160	10 x 160	10	110	50	500
22852-10180	10 x 180	10	130	50	500



long-expansion frame anchor, countersunk head screw

article group 22952

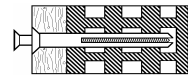
The article consists of a nylon plug with countersunk head and a countersunk head screw, blue zinc plated.

Suitable for fixings on cavity bricks and other hollow or low-density material.

With its long shank the frame anchor is perfect suitable for through fixings.

The allround imprint enables higher power transmission during screwing and enables attaching of cover caps.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22952-8100	8 x 100	8	20	100	1,000
22952-8120	8 x 120	8	40	100	1,000
22952-8140	8 x 140	8	60	50	500
22952-10100	10 x 100	10	20	50	500
22952-10120	10 x 120	10	40	50	500
22952-10140	10 x 140	10	60	50	500
22952-10160	10 x 160	10	80	50	500
22952-10180	10 x 180	10	100	50	500



Coloured cover caps available on request

frame anchor, countersunk head screw

- hot dip galvanized -

article group 22853

The article consists of a nylon plug with countersunk head and a countersunk head screw, hot dip galvanized.

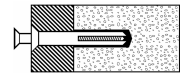
It provides a longer protection against corrosion.

Suitable for fixings on concrete, bricks and other high-density material.

With its long shank the frame anchor is perfect suitable for through fixings.

The allround imprint enables higher power transmission during screwing and enables attaching of cover caps.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22853-1080	10 x 80	10	30	50	500
22853-10100	10 x 100	10	50	50	500
22853-10120	10 x 120	10	70	50	500
22853-10140	10 x 140	10	90	50	500
22853-10160	10 x 160	10	110	50	500
22853-10180	10 x 180	10	130	50	500



long-expansion frame anchor, countersunk head screw

- hot dip galvanized -

article group 22953

The article consists of a nylon plug with countersunk head and a countersunk head screw, hot dip galvanized.

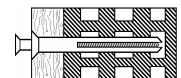
It provides a longer protection against corrosion.

Suitable for fixings on cavity bricks and other hollow or low-density material.

With its long shank the frame anchor is perfect suitable for through fixings.

The allround imprint enables higher power transmission during screwing and enables attaching of cover caps.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22953-10100	10 x 100	10	20	50	500
22953-10120	10 x 120	10	40	50	500
22953-10140	10 x 140	10	60	50	500
22953-10160	10 x 160	10	80	50	500
22953-10180	10 x 180	10	100	50	500



Coloured cover caps available on request

frame anchor, hexagon head screw

article group 22851

The article consists of a nylon plug with countersunk head and a hexagon head screw, blue zinc plated.

Suitable for fixings on concrete, bricks and other high-density material.

With its long shank the frame anchor is perfect suitable for through fixings.

The hexagon head screw enables high power transmission during screwing.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22851-1080	10 x 80	10	30	50	500
22851-10100	10 x 100	10	50	50	500
22851-10120	10 x 120	10	70	50	500
22851-10140	10 x 140	10	90	25	250
22851-10160	10 x 160	10	110	25	250
22851-10180	10 x 180	10	130	25	250



long-expansion frame anchor, hexagon head screw

article group 22951

The article consists of a nylon plug with countersunk head and a hexagon head screw, blue zinc plated.

Suitable for fixings on cavity bricks and other hollow or low-density material.

With its long shank the frame anchor is perfect suitable for through fixings.

The hexagon head screw enables high power transmission during screwing.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22951-10100	10 x 100	10	20	50	500
22951-10120	10 x 120	10	40	50	500
22951-10140	10 x 140	10	60	25	250
22951-10160	10 x 160	10	80	25	250
22951-10180	10 x 180	10	100	25	250



long-expansion knotting frame anchor, countersunk head screw

article group 22955

The article consists of a nylon plug with countersunk head and a countersunk head screw, blue zinc plated.

Suitable for fixings on almost all construction materials, it spreads in solid materials and knots in hollow materials.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
22955-8100	8 x 100	8	20	100	1,000
22955-8120	8 x 120	8	40	100	1,000
22955-8140	8 x 140	8	60	100	1,000



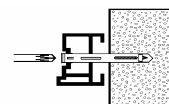
window frame anchor, metal

article group 72830

The article consists of a metal plug, a pozidriv screw, blue zinc plated, with drilled head for placing cover caps after use and a cone.

Suitable for non-stressing fixings of windows, doors or frames on concrete, bricks and other high-density material.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
72830-1072	10 x 72	10	20		100
72830-1092	10 x 92	10	40		100
72830-10112	10 x 112	10	60		100
72830-10132	10 x 132	10	80		100
72830-10152	10 x 152	10	100		100
72830-10182	10 x 182	10	120		100
72830-10202	10 x 202	10	140		100

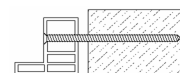


window frame screw, blue zinc plated

article group 84000

To fix windows, doors or frames on concrete, solid bricks, clay bricks or other high-density material. When turning the screw, the thread cuts into the base material. Short edge distances are possible due to low expansion. The imprint of the screw is T 30.

article no.	dimension Ø x l mm	drill mm	head Ø mm	quantity per	
				box	carton
84000-7552	7,5 x 52	6	11		100
84000-7572	7,5 x 72	6	11		100
84000-7592	7,5 x 92	6	11		100
84000-75112	7,5 x 112	6	11		100
84000-75132	7,5 x 132	6	11		100
84000-75152	7,5 x 152	6	11		100
84000-75182	7,5 x 182	6	11		100
84000-75202	7,5 x 202	6	11		100
84000-75212	7,5 x 212	6	11		100



allchem chemical mortar

ETAG 001 - option 1 and ETAG 029 approval

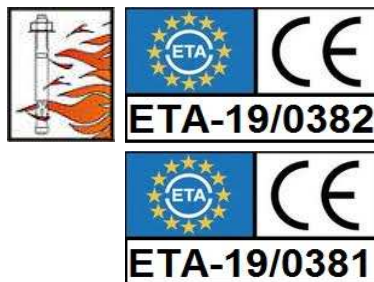
article group 40000

Two components chemical mortar cartridge, incl. static mixer
vinylester-based, styrene free

Approved for cracked and non-cracked concrete,
full bricks and hollow bricks and lightweight concrete

Seismic tested according to performance category C1.

300 ml cartridge for use with standard silicon-guns



article no.	content	quantity carton
40000-300	300 ml	12

other types of cartridges and volumes on request

static mixer

article group 40200

for use with chemical mortar cartridge 40160.

Mixing of the two components is effected by a spiral coil
wherein mortar and hardener are merged.

article no.	quantity bag
40200	10



perforated sleeve

article group 40300

for use with chemical mortar cartridge 40160.

Necessary for use of chemical mortar in hollow bricks
to prevent from leakage of the chemical mortar into cavities.

The chemical mortar dispenses around the sleeve and leads to anchoring in the construction material.

article no.	dimension Ø mm	quantity bag
40300-1250	12 x 50	50
40300-1585	15 x 85	20
40300-15130	15 x 130	20
40300-2085	20 x 85	10



ADSA wedge anchor, ETAG 001 approval, option 1

article group 72100, blue zinc plated

Wedge anchor is completely assembled with washer and nut.

Suitable for fixings in cracked and non-cracked concrete - option 1.

For quick and economic anchoring of heavy-duty fixings,
e.g. brackets, beams, claddings, metal constructions.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per box
72100-875	8 x 75	8	10	100
72100-885	8 x 85	8	20	100
72100-1090	10 x 90	10	20	50
72100-10105	10 x 105	10	35	50
72100-10120	10 x 120	10	50	50
72100-12110	12 x 110	12	20	50
72100-12125	12 x 125	12	35	50
72100-12140	12 x 140	12	50	25

other dimensions and steel grades on request



ASA wedge anchor, ETAG 001 approval, option 7

article group 72300, blue zinc plated

Wedge anchor is completely assembled with washer and nut.

Suitable for fixings in non-cracked concrete - option 7.

For anchoring of middle and heavy-duty fixings, e.g. brackets, conduits,
cable trays or claddings.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per box
72300-875	8 x 75	8	17	50
72300-895	8 x 95	8	37	50
72300-1090	10 x 90	10	25	40
72300-10100	10 x 100	10	35	25
72300-10120	10 x 120	10	55	25
72300-12100	12 x 100	12	18	20
72300-12110	12 x 110	12	28	20
72300-12120	12 x 120	12	38	20
72300-12140	12 x 140	12	58	20
72300-12200 ¹⁾	12 x 200	12	118	10
72300-12240 ¹⁾	12 x 240	12	158	10
72300-12280 ¹⁾	12 x 280	12	198	10
72300-16125	16 x 125	16	10	10
72300-16145	16 x 145	16	30	10
72300-16170	16 x 170	16	55	10
72300-20170	20 x 170	20	35	5
72300-20220	20 x 220	20	85	5

¹⁾ with big washer (DIN 9021)

other dimensions and steel grades on request



wedge anchor

article group 72000

Wedge anchor, blue zinc plated. Delivery complete with nut and washer.
Suitable for fixings in high-density material, especially for metal constructions, machines, wood sub-constructions, etc.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per box
72000-640	6 x 40	6	5	100
72000-665	6 x 65	6	10	100
72000-685	6 x 85	6	30	100
72000-850	8 x 50	8	5	100
72000-870	8 x 70	8	10	50
72000-885	8 x 85	8	25	50
72000-8115	8 x 115	8	60	50
72000-8165	8 x 165	8	100	50
72000-1060	10 x 60	10	5	50
72000-1090	10 x 90	10	30	20
72000-10120	10 x 120	10	55	20
72000-10150	10 x 150	10	75	20
72000-10180	10 x 180	10	100	20
72000-12100	12 x 100	12	15	20
72000-12120	12 x 120	12	30	20
72000-12150	12 x 150	12	60	20
72000-12180	12 x 180	12	85	20

other dimensions and steel grades on request



brass anchor

article group 27000

Brass anchor featuring a internal thread, to fix heavy-duty loads in concrete, natural stone and other high-density material. Although there is a small drilling and fastening depth, the anchor is characterized by high extraction values. Anchoring by spreading in the drill hole. The anchor is resistant against heat and corrosion and thereby applicable in- and outside buildings. By the surrogated structure on the outside of the anchor it is secured against turning out of position. It can be fixated with all screws featuring a metric thread.

article no.	dimension Ø x l mm	drill mm	screws	quantity per box
27000-5	M5 x 20	6.5	M5	100
27000-6	M6 x 23	8	M6	100
27000-8	M8 x 28	10	M8	100
27000-10	M10 x 33	12	M10	50
27000-12	M12 x 40	14	M12	50
27000-16	M16 x 45	20	M16	25



ADBS concrete screw, ETAG 001 approval

article group 73100, zinc flake coating



Concrete screw with hexagon head with pressed-on washer.

For anchoring of middle and heavy-duty loads, e.g. beams, high-rise racks
in cracked and non-cracked concrete - option 1.

article no.	dimension Ø x l mm	drill mm	wrench size	eff. length max. mm	quantity per box
73100-7560	7,5 x 60	6	10	5	100
73100-7580	7,5 x 80	6	10	25	100
73100-75100	7,5 x 100	6	10	45	50
73100-75120	7,5 x 120	6	10	65	50
73100-10565	10,5 x 65	8	13	5	50
73100-10575	10,5 x 75	8	13	15	50
73100-10590	10,5 x 90	8	13	30	50
73100-105110	10,5 x 110	8	13	50	30
73100-105130	10,5 x 130	8	13	70	30
73100-12575	12,5 x 75	10	15	5	30
73100-12585	12,5 x 85	10	15	15	30
73100-125100	12,5 x 100	10	15	30	20
73100-125120	12,5 x 120	10	15	50	20
73100-125140	12,5 x 140	10	15	70	20
73100-125160	12,5 x 160	10	15	90	30
73100-125200	12,5 x 200	10	15	130	20
73100-165115	16,5 x 115	14	18	5	12
73100-165135	16,5 x 135	14	18	25	10
73100-165160	16,5 x 160	14	18	50	10

other dimensions and steel grades on request



insulation fixing

article group 23000

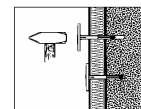
Solid plastic element for mechanical fixing of soft mineral fibre-mats on walls of concrete, bricks and other high-density material.

For fixing of insulation material in e.g. ventilated claddings.

Contact pressure by deformation of the longitudinal ribs
fix the plug in the drill hole

article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23000-860	8 x 60	8	30 - 40	90	250
23000-880	8 x 80	8	50 - 60	90	250
23000-8100	8 x 100	8	70 - 80	90	250
23000-8120	8 x 120	8	90 - 100	90	250
23000-8140	8 x 140	8	110 - 120	90	200
23000-8160	8 x 160	8	130 - 140	90	200

in black on request available



insulation fixing

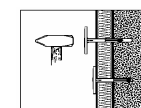
article group 23100

Solid plastic element for mechanical fixing of hardboard insulation plates on walls of concrete, bricks and other high-density material.

For fixing of insulation material in e.g. ventilated claddings.

Contact pressure by deformation of the longitudinal ribs
fix the plug in the drill hole

article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23100-860	8 x 60	8	30 - 40	50	250
23100-880	8 x 80	8	50 - 60	50	250
23100-8100	8 x 100	8	70 - 80	50	250
23100-8120	8 x 120	8	90 - 100	50	250
23100-8140	8 x 140	8	110 - 120	50	250
23100-8160	8 x 160	8	130 - 140	50	250



alltherm

article group 23210

Plastic plug to fix light weight parts like outside lamps, housenumbers, motion sensors, stack pipes in expanded polystyrene plates.

article no.	dimension Ø x l mm	setting tool	screws Ø mm	quantity per box	quantity per carton
23210-2850	28 x 50	hexagonal	4,0 - 5,0	40	400
23210-2895	28 x 95	recess 13	8,0 - 10,0	20	200



insulation fixing, two parts

article group 23150

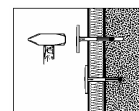
Plastic element, made out of 2 parts, for mechanical fixing of soft mineral fibre-mats on walls of concrete, bricks and other high-density material.

For fixing of insulation material in e.g. ventilated claddings.

Contact pressure by deformation of the ribs

fix the plug in the drill hole

Pin and washer not pre-assembled.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23150-880	8 x 80	8	30 - 50	90	250
23150-8100	8 x 100	8	60 - 70	90	250
23150-8120	8 x 120	8	80 - 90	90	250
23150-8140	8 x 140	8	100 - 110	90	250
23150-8160	8 x 160	8	120 - 130	90	250
23150-8180	8 x 180	8	140 - 150	90	250
23150-8200	8 x 200	8	160 - 170	90	250
23150-8220	8 x 220	8	180 - 190	90	250
23150-8240	8 x 240	8	200 - 210	90	250
23150-8260	8 x 260	8	220 - 230	90	250
23150-8280	8 x 280	8	240 - 250	90	250
23150-8300	8 x 300	8	260 - 270	90	250

in black on request available



insulation fixing, two parts

article group 23250

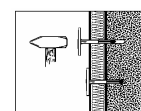
Plastic element, made out of 2 parts, for mechanical fixing of hardboard insulation plates on walls of concrete, bricks and other high-density material.

For fixing of insulation material in e.g. ventilated claddings.

Contact pressure by deformation of the ribs

fix the plug in the drill hole

Pin and washer not pre-assembled.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23250-880	8 x 80	8	30 - 50	52	250
23250-8100	8 x 100	8	60 - 70	52	250
23250-8120	8 x 120	8	80 - 90	52	250
23250-8140	8 x 140	8	100 - 110	52	250
23250-8160	8 x 160	8	120 - 130	52	250
23250-8180	8 x 180	8	140 - 150	52	250
23250-8200	8 x 200	8	160 - 170	52	250
23250-8220	8 x 220	8	180 - 190	52	250
23250-8240	8 x 240	8	200 - 210	52	250
23250-8260	8 x 260	8	220 - 230	52	250
23250-8280	8 x 280	8	240 - 250	52	250
23250-8300	8 x 300	8	260 - 270	52	250

in black on request available



insulation board plug, with plastic nail

article group 23450

Plug and spreading nail made out of special plastic.

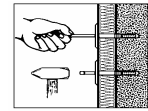
Suitable for fixing of hardboard insulation plates on walls

of concrete, bricks or other high-density material.

For fixing of insulation material in e.g. plastered claddings.

Fixing of the insulation material by sticking the plug into the drill hole,
afterwards fastening of the anchor by hammering the nail into the plug.

Spreading of the plug leads to anchoring.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23450-1070	10 x 70	10	30 - 40	50	250
23450-1090	10 x 90	10	50 - 60	50	250
23450-10110	10 x 110	10	70 - 80	50	250
23450-10130	10 x 130	10	90 - 100	50	250
23450-10150	10 x 150	10	110 - 120	50	250
23450-10180	10 x 180	10	130 - 150	50	250
23450-10210	10 x 210	10	160 - 180	50	200



insulation anchor, with plastic nail

article group 23350

Plug and spreading nail made out of special plastic.

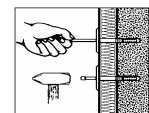
Suitable for fixing of soft mineral fibre-mats on walls

of concrete, bricks or other high-density material.

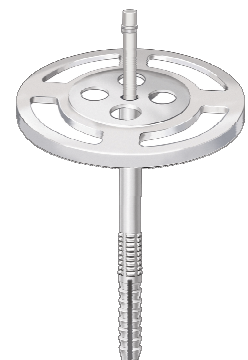
For fixing of insulation material in e.g. plastered claddings.

Fixing of the insulation material by sticking the plug into the drill hole,
afterwards fastening of the anchor by hammering the nail into the plug.

Spreading of the plug leads to anchoring.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23350-1070	10 x 70	10	30 - 40	90	250
23350-1090	10 x 90	10	50 - 60	90	250
23350-10110	10 x 110	10	70 - 80	90	250
23350-10130	10 x 130	10	90 - 100	90	200
23350-10150	10 x 150	10	110 - 120	90	150
23350-10180	10 x 180	10	130 - 150	90	150
23350-10210	10 x 210	10	160 - 180	90	100



IUD iso-universalanchor, ETAG 014 approval

article group 23470

The item consists of a plastic plug and metal pin with fixed plastic cover cap. Suitable for fixing of hardboard insulation plates on walls of concrete, sand-lime bricks, clay bricks, perforated sand-lime bricks, perforated clay bricks, lightweight concrete and hollow blocks of lightweight concrete. Fixing of the insulation material by sticking the plug into the drill hole, afterwards fastening of the anchor by hammering the nail into the plug. Spreading of the plug leads to anchoring.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23470-890	8 x 90	8	40 - 60	60	250
23470-8110	8 x 110	8	70 - 80	60	250
23470-8130	8 x 130	8	90 - 100	60	200
23470-8150	8 x 150	8	110 - 120	60	150
23470-8170	8 x 170	8	130 - 140	60	150
23470-8190	8 x 190	8	150 - 160	60	100
23470-8210	8 x 210	8	170 - 180	60	100
23470-8240	8 x 240	8	190 - 210	60	100



- nail with fixed plastic head
- heat behavior tests at FIW Munich
- ideal plastic cover cap to reduce the heat loss coefficient (k value)
- hammer-in anchor, no tool necessary
- preassembled nail for quick setting
- additional with plastic washer (article group 23800) for fixing of mineral-fibre isolation
- Önorm approval

insulation washer for iso-universalanchor

article group 23800

Plastic disc for fixing of mineral-fibre isolations with "Iso-Universalanchor". Fits to the article groups 23460, 23470, 23480, 23490, 23492

article no.	washer Ø mm	for iso-universalanchor art.-no. 23460 - 23492	quantity per bag
23800-90	90	fit to all dimensions	250
23800-110	110	fit to all dimensions	250
23800-140	140	fit to all dimensions	100



insulation plate, for wooden and metal constructions

article group 23855

Plastic disc with shaft to fix insulation materials like polystyrene and expanded plastic slabs on metal- and wooden constructions. Covering of the screws with the integrated plastic cap prevents from heat loss and infiltration of humidity (corrosion of screws).

article no.	shaft l mm	screws Ø mm	head Ø mm	quantity per carton
23855	10	6	60	250



8er universalanchor

article group 23480

The item consists of a plastic plug and metal pin with fixed plastic cover cap. Suitable for fixing of hardboard insulation plates on walls of concrete, sand-lime bricks, clay bricks, perforated sand-lime bricks, perforated clay bricks.

Fixing of the insulation material by sticking the plug into the drill hole, afterwards fastening of the anchor by hammering the nail into the plug. Spreading of the plug leads to anchoring.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23480-890	8 x 90	8	40 - 60	60	250
23480-8110	8 x 110	8	70 - 80	60	250
23480-8130	8 x 130	8	90 - 100	60	200
23480-8150	8 x 150	8	110 - 120	60	200
23480-8170	8 x 170	8	130 - 140	60	150
23480-8190	8 x 190	8	150 - 160	60	150
23480-8210	8 x 210	8	170 - 180	60	150
23480-8240	8 x 240	8	190 - 210	60	100

Plug and nail are not pre-assembled



10er universalanchor

article group 23460

The item consists of a plastic plug and metal pin with fixed plastic cover cap (10mm hexagon head to remove the nail with article no. 60270).

Suitable for fixing of hardboard insulation plates on walls of concrete, sand-lime bricks, clay bricks, perforated sand-lime bricks, perforated clay bricks.

Fixing of the insulation material by sticking the plug into the drill hole, afterwards fastening of the anchor by hammering the nail into the plug. Spreading of the plug leads to anchoring.

article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23460-1070	10 x 70	10	20 - 30	60	250
23460-1090	10 x 90	10	40 - 50	60	250
23460-10110	10 x 110	10	60 - 70	60	250
23460-10130	10 x 130	10	80 - 90	60	250
23460-10150	10 x 150	10	100 - 110	60	200
23460-10180	10 x 180	10	120 - 140	60	150
23460-10210	10 x 210	10	150 - 170	60	150
23460-10240	10 x 240	10	180 - 200	60	100

Plug and nail are not pre-assembled



universalanchor L, with long expansion zone

article group 23490

The item consists of a plastic plug with long expansion zone and knotting function and a special screw, blue zinc plated, with T30 recess.

Suitable to fix hardboard insulation plates on almost every construction materials.

The plug spreads in solid materials and knots in hollow materials.

Fixing of the insulation material by sticking the plug into the drill hole, afterwards driving of the screw into the plug.

Spreading or knotting of the plug leads to anchoring.

Covering of the screws with the integrated plastic cap

prevents from heat loss and infiltration of humidity (corrosion of screws).

To fix soft mineral fibre-mats we advise to use insulation washer (article group 23800).

article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23490-8130	8 x 130	8	40 - 60	60	250
23490-8150	8 x 150	8	70 - 80	60	200
23490-8170	8 x 170	8	90 - 100	60	150
23490-8190	8 x 190	8	110 - 120	60	150
23490-8210	8 x 210	8	130 - 140	60	150
23490-8240	8 x 240	8	150 - 170	60	100
23490-8280	8 x 280	8	180 - 210	60	100
23490-8320	8 x 320	8	220 - 250	60	100
23490-8360	8 x 360	8	260 - 290	60	100

Plug and screw are not pre-assembled



universalanchor K, with short expansion zone

article group 23485

Like article group 23490, but without knotting function

article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23485-8320	8 x 320	8	260 - 290	60	100
23485-8360	8 x 360	8	300 - 330	60	100

Plug and screw are not pre-assembled

universalanchor L, with cavity wall tie

article group 23492

The item consists of a plastic plug with long expansion zone and a cavity wall tie, blue zinc plated.

Suitable to fix hardboard insulation plates in cavity walls on almost every construction material.

Fixing of the insulation material without cavity wall tie by sticking the plug into the drill hole,

Hammering of the cavity wall tie when building up the outer wall.

Spreading of the plug leads to anchoring.

article no.	plug Ø x l mm	drill mm	effective length max. mm	cavity wall tie	quantity per carton
23492-8130	8 x 130	8	60 / 80	4 x 220	250
23492-8150	8 x 150	8	80 / 100	4 x 250	200
23492-8170	8 x 170	8	100 / 120	4 x 275	150
23492-8190	8 x 190	8	120 / 140	4 x 300	150
23492-8210	8 x 210	8	140 / 160	4 x 300	150



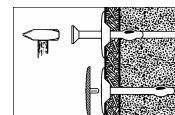
light insulation board anchor

article group 23600

Anchor made of special steel, blue zinc plated.

Suitable to fix wood-wool slabs (e.g. Heraklith) on walls or ceilings.

For visible fixings we recommend coloured cover caps.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23600-660	6 x 60	6	20 - 30	30	250
23600-680	6 x 80	6	40 - 50	30	250
23600-6100	6 x 100	6	60 - 70	30	250
23600-6120	6 x 120	6	80 - 90	30	250
23600-6140	6 x 140	6	100 - 110	30	250
23600-6150	6 x 150	6	110 - 120	30	250
23600-6170	6 x 170	6	130 - 140	30	250

Coloured cover caps available (white, beige, light grey)

insulation fixing, metal

article group 23560

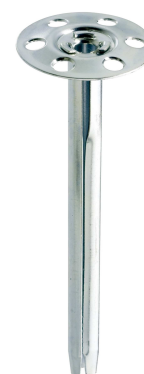
Anchor made of spring-loaded steel, blue zinc plated.

Suitable to fix hardboard insulation plates on walls and ceilings.

Fire resistance acc. DIN 4102 (class A1). Fast and economical anchoring.

Best pull-out values will be achieved when installation depth is 50mm.

For visible fixings we recommend coloured cover caps.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23560-860	8 x 60	8	10 - 20	35	250
23560-890	8 x 90	8	0 - 40	35	250
23560-8110	8 x 110	8	30 - 60	35	250
23560-8140	8 x 140	8	80 - 100	35	250
23560-8170	8 x 170	8	110 - 130	35	250
23560-8200	8 x 200	8	140 - 160	35	250

Coloured cover caps available (white, beige, light grey)

quick anchor with metal washer

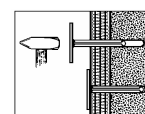
article group 23550

The item consists of a quick anchor, spring-loaded steel, and a washer of 72 mm diameter, blue zinc plated.

Suitable to fix soft mineral fibre-mats on walls and ceilings.

Fire resistance acc. DIN 4102 (class A1). Fast and economical anchoring.

Anchor and washer are not pre-assembled.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	head Ø mm	quantity per carton
23550-870	8 x 70	8	30	72	100
23550-890	8 x 90	8	50	72	100
23550-8110	8 x 110	8	70	72	100
23550-8130	8 x 130	8	90	72	100
23550-8150	8 x 150	8	110	72	100
23550-8180	8 x 180	8	140	72	100

multi fixing

article group 23500

Plastic anchor for fixing of hardboard insulation plates into concrete.

Sticking the anchor through the insulation material and bringing it into the formwork.

Afterwards pouring the concrete into the formwork.

article no.	dimension l mm	effective length max. mm	head mm	quantity per bag
23500-80	80	40 - 50	27 x 18	500
23500-100	100	60 - 70	27 x 18	500
23500-120	120	80 - 90	27 x 18	500
23500-160	160	100 - 130	27 x 18	500
23500-200	200	140 - 170	27 x 18	250



insulation washer

article group 23610

Plastic washer for fixing of soft mineral fibre-mats with cavity wall ties.

Anchoring of the cavity wall tie in the inner wall and sticking the insulation material onto the anchor.

Finally fixing of the insulation material on the anchor with this insulation washer.

article no.	dimension Ø mm	for cavity wall ties Ø mm	quantity per bag
23610	60	3 und 4	250



insulation washer, for nail plugs

article group 23700

Plastic washer for fixing of soft mineral fibre-mats with nail plugs of 8 mm diameter.

The head of our countersunk nail plug fits perfect in the hole of the washer.

article no.	dimension Ø mm	for nail plugs mm	quantity per bag
23700	90	8	250



insulation washer, for steel nails

article group 23750

Plastic washer for fixing of soft mineral fibre-mats with steel nails.

article no.	dimension Ø mm	for steel nails mm	quantity per bag
23750	90	3 und 4	250



metal washer, blue zinc plated

article group 96700

Adding to article groups 23560 and 79000 to fix soft mineral fibre-mats.

article no.	dimension Ø mm	hole Ø mm	quantity per box
96700	72	8	100



rivet plug

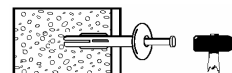
article group 78200

Zinc-alloy plug with stainless steel nail.

Particularly suitable for outdoor fixings.

Winglets on the outside hold the plug in the hole before hammering in, that prevents from slipping out of the drill hole.

Suitable for fixing of e.g. flat roof sealings, end profiles, dome lights on concrete, full bricks and other high-density material.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
78200-520	5 x 20	5	5	200	2,000
78200-530	5 x 30	5	15	200	2,000
78200-540	5 x 40	5	25	200	2,000
78200-550	5 x 50	5	35	200	2,000

rivet sealing plug

article group 78300

like rivet plug (article group 78200), though with pre-assembled sealing washer.

Additional prevention from infiltration of humidity.

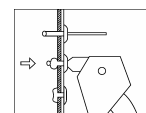


article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
78300-520	5 x 20	5	5	200	2,000
78300-530	5 x 30	5	15	200	2,000
78300-540	5 x 40	5	25	200	2,000
78300-550	5 x 50	5	35	200	2,000

blind rivet, alu/steel

article group 71000

For fixing of e.g. cover plates, metal profiles, corrugated sheets on metal constructions.



article no.	dimension Ø x l mm	drill mm	rivetable thickness	quantity per	
				box	carton
71000-326	3,2 x 6	3.3	1,5 - 3,5	1,000	10,000
71000-328	3,2 x 8	3.3	3,5 - 5,5	1,000	10,000
71000-3210	3,2 x 10	3.3	5,5 - 7,0	1,000	10,000
71000-3212	3,2 x 12	3.3	7,0 - 9,3	1,000	10,000
71000-406	4,0 x 6	4.1	1,5 - 3,0	1,000	10,000
71000-408	4,0 x 8	4.1	4,5 - 5,0	1,000	10,000
71000-4010	4,0 x 10	4.1	5,0 - 6,5	1,000	10,000
71000-4012	4,0 x 12	4.1	6,5 - 8,5	1,000	10,000
71000-4016	4,0 x 16	4.1	10,5 - 12,5	500	5,000
71000-4810	4,8 x 10	4.9	4,5 - 6,0	500	5,000
71000-4812	4,8 x 12	4.9	6,0 - 8,0	500	5,000
71000-4814	4,8 x 14	4.9	8,0 - 10,0	500	5,000
71000-4816	4,8 x 16	4.9	10,0 - 12,0	500	5,000



rivet plier Vario

article group 60710

Professional gun for constant use. For blind rivets up to Ø 2,4 / 3,0 / 3,2 / 4,0 / 4,8 mm.

Patented rotary head enabling easy fixing, even in areas not easily accessible.



ADH ceiling anchor, ETAG 001 approval

article group 79400

Single-part fixing system made out of steel, blue zinc plated.

For cost efficient multiple fixings of non-structural systems (e.g. suspended ceilings).

Drilling the hole - placing the anchor - hammering down the pin.

A plain hammered-in pin is the setting control of the anchor.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
79400-637	6 x 37	6	5	100	1,000
79400-665	6 x 65	6	32	100	1,000



metal plug, pre-assembled

article group 79200

Hammer fixing system consisting of a zinc-alloy anchor and a pre-assembled

steel nail, blue zinc plated. Suitable for fixings of e.g. lathes, metal sub-constructions,

signs, sheets or punched strips on concrete, full bricks or other high-density material.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
79200-516	5 x 16	5	2	200	2,000
79200-520	5 x 20	5	5	200	2,000
79200-525	5 x 25	5	10	200	2,000
79200-530	5 x 30	5	15	200	2,000
79200-535	5 x 35	5	20	200	2,000
79200-540	5 x 40	5	25	200	2,000
79200-620	6 x 20	6	2	200	2,000
79200-630	6 x 30	6	10	200	2,000
79200-640	6 x 40	6	20	200	2,000
79200-650	6 x 50	6	30	200	2,000
79200-665	6 x 65	6	45	100	1,000



metal plug, with pre-assembled suspension sheet

article group 79300

Hammer fixing system consisting of a zinc-alloy anchor, a pre-assembled

steel nail, zinc plated and a suspension sheet.

Suitable for hanging of cable conduits or pipelines

on concrete, full bricks or other high-density material.

Diameter of the hole in suspension sheet is 6 mm.



article no.	dimension Ø x l mm	drill mm	effective length max. mm	quantity per	
				box	carton
79300-640	6 x 40	6	20	100	1,000

suspension sheet

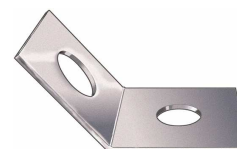
article group 79301

Suitable for hanging of cable conduits or pipelines

on concrete, full bricks or other high-density material.

Fits with all metal plugs of 6 mm.

article no.	hole Ø mm	quantity per	
		box	carton
79301	6	200	2,000



cavity anchor, steel, blue zinc plated

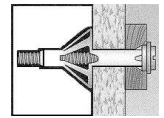
Artikelgruppe 70100

Metal plug with multi recess screw, blue zinc plated.

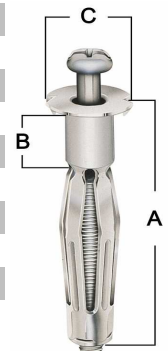
Easy application with assembling pliers.

Handling of the multi recess screws is possible with crosstip and slotted screwdrivers.

Suitable for fixings on plasterboard on walls and ceilings.



article no.	drill mm	clamping range in mm	screws in mm	A in mm	B in mm	quantity per	
						box	carton
70100-45	9	0 - 3	M4 x 30	21	3	100	1,000
70100-412	9	3 - 9	M4 x 40	34	8	100	1,000
70100-424	9	3 - 12	M4 x 55	47	11	100	1,000
70100-425	9	15 - 21	M4 x 55	47	21	100	1,000
70100-438	9	31 - 38	M4 x 70	61	38	100	1,000
70100-513	11	4 - 10	M5 x 45	38	10	100	1,000
70100-516	11	2 - 13	M5 x 60	53	13	100	1,000
70100-532	11	16 - 27	M5 x 70	66	27	100	1,000
70100-545	11	31 - 42	M5 x 90	81	42	100	1,000
70100-613	13	4 - 10	M6 x 45	39	9	100	1,000
70100-616	13	3 - 13	M6 x 60	53	13	100	1,000
70100-632	13	15 - 26	M6 x 70	66	26	100	1,000
70100-645	13	30 - 41	M6 x 90	81	41	100	1,000



assembling plier PRO, for cavity anchors

article group 60500

A professional tool for setting cavity anchors.

By means of the tool the anchor is inserted into the drill hole and is expanded by pulling back the screw into the anchor.



assembling plier EASY, for cavity anchors

article group 60520

A simple tool for setting cavity anchors.

By means of the tool the anchor is inserted into the drill hole and is expanded by pulling back the screw into the anchor.



speed plug, plastic

article group 26000

Cavity plug, made of special plastic.

Suitable for fixings of e.g. cable tubes, pipe clamps, picture frames on plaster carton and lightweight plates. Non-conductive due to plastic material.

Universal application with different screw sizes.

article no.	wood and metal	chipboard	quantity per	
	screws	screws	box	carton
26000	4,0 - 5,5	4,0 - 6,0	200	2,000

1 setting tool is included in each box



setting tool, for speed plug

article group 60250

Setting tool for speed plug, article group 26000.

Made of hardened steel. Suits on drill chucks and 1/4" insertions.

metal speed plug, zinc alloy

article group 26100

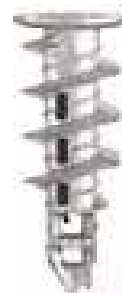
Cavity plug, made of zinc alloy.

Suitable for fixings of e.g. cable tubes, pipe clamps, picture frames on plaster carton and lightweight plates. No setting tool necessary.

Universal application with different screw sizes.

The trumpet-like head facilitates the insertion of screws.

article no.	wood and metal	chipboard	quantity per	
	screws	screws	box	carton
26100	4,0 - 5,0	4,0 - 5,0	200	2,000
26100-36	4,0 - 5,0	4,0 - 5,0	200	2,000



metal speed set

article group 26150

Set consisting of the metal speed plug and a panhead screw, blue zinc plated.

article no.	panhead screw	quantity per	
	Ø x l mm	box	carton
26150	4,0 x 35	100	1,000



light concrete plug

article group 26500

Made of special plastic.

Suitable for fixings of channel tubes, pipe clamps, picture frames on light concrete.

Universal application with different screw sizes.

Pre-drilling of 10 mm in harder material necessary.

article no.	wood and metal	chipboard	quantity per	
	screws	screws	box	carton
26500	4,0 - 5,5	4,0 - 6,0	100	1,000

1 setting tool is included in each box



setting tool, for light concrete plug

article group 60255

Setting tool for speed plug, article group 26000.

Made of hardened steel. Suits on drill chucks and 1/4" insertions.

Also usable as PH 2 bit.



light concrete nail

article group 77500

Two-part non-preassembled fixing element. It consists of a tube and a steel nail, blue zinc plated.

Without predrilling the tube can be inserted into the lightweight concrete.

Then the nail is hammered in. The nail is forced out sideways, thus giving a safe fixing in the material.

No predrilling necessary - therefore a timesaving fixing.

article no.	dimension	inserting depth	quantity per	
	Ø x l mm	effective length	box	carton
77500-890	8 x 90	60 / 30	100	800
77500-8115	8 x 115	60 / 50	100	600



bits, pozidriv (PZ)

article group 60100

article no.	size / length	insertion	quantity per bag
60100-125	1 x 25	1/4"	100
60100-225	2 x 25	1/4"	100
60100-325	3 x 25	1/4"	100
60100-425	4 x 25	1/4"	50
60100-150	1 x 50	1/4"	50
60100-250	2 x 50	1/4"	50
60100-350	3 x 50	1/4"	50



bits, Phillips (PH)

article group 60150

article no.	size / length	insertion	quantity per bag
60150-125	1 x 25	1/4"	100
60150-225	2 x 25	1/4"	100
60150-325	3 x 25	1/4"	100
60150-250	2 x 50	1/4"	50



bits, allround (TX)

article group 60160

article no.	size / length	insertion	quantity per bag
60160-1025	10 x 25	1/4"	100
60160-1525	15 x 25	1/4"	100
60160-2025	20 x 25	1/4"	100
60160-2525	25 x 25	1/4"	100
60160-3025	30 x 25	1/4"	100
60160-4025	40 x 25	1/4"	100



magnetic holder

article group 60201

Magnetic holder for secure fitting of each bit.
Suits on all bits with 1/4" shaft.

article no.	size / length	insertion	quantity per bag
60201	1/4" x 75	1/4"	10



hammer drills, SDS-plus

article group 60000

Hammer drill with cylindrical shank and four shank nuts. Suitable for drilling in concrete, bricks and nature stones.

article no.	dimension mm	working length
60000-4110	4 x 110	50
60000-5110	5 x 110	50
60000-5160	5 x 160	100
60000-6110	6 x 110	50
60000-6160	6 x 160	100
60000-6210	6 x 210	150
60000-8110	8 x 110	50
60000-8160	8 x 160	100
60000-8210	8 x 210	150
60000-8260	8 x 260	200
60000-8320	8 x 320	260
60000-10160	10 x 160	100
60000-10210	10 x 210	150
60000-10260	10 x 260	200
60000-10320	10 x 320	260
60000-12160	12 x 160	100
60000-12210	12 x 210	150
60000-12260	12 x 260	200
60000-12320	12 x 320	260
60000-14160	14 x 160	100
60000-14210	14 x 210	150
60000-14260	14 x 260	200
60000-14320	14 x 320	260
60000-14450	14 x 450	390
60000-15320	15 x 320	260
60000-15450	15 x 450	390
60000-16160	16 x 160	100
60000-16210	16 x 210	150
60000-16260	16 x 260	200
60000-16320	16 x 320	260
60000-16450	16 x 450	390
60000-18320	18 x 320	260
60000-18450	18 x 450	390
60000-20320	20 x 320	260
60000-20450	20 x 450	390
60000-22320	22 x 320	260
60000-22450	22 x 450	390
60000-24320	24 x 320	260
60000-24450	24 x 450	390
60000-25320	25 x 320	260
60000-25450	25 x 450	390



Test Reports

You can find our test reports in the internet: www.alfa-germany.com/download

or book them directly:

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Fax ++49 (0) 209/ 95 88 0 - 50

Email: sales@alfa-germany.com
Internet: www.alfa-germany.com

Boxes and Blisters



An overview of our boxes- and blisterprogram you'll receive, if you wish, in a separate catalogue.

Lieferbedingungen Ausland
Export Terms
Conditions de livraison-exportation

Mindestauftragswert	netto	Euro 250,--
minimum order value	net	Euro 250,--
valeur min. par commande	net	Euro 250,--

Bei Vorlage einer Versandvorschrift liefern wir unfrei ab Werk.
Sämtliche Preise sind Nettopreise.

If a special routing order is required we deliver ex works.
All prices are net prices.

En cas conditions spéciales de transport nous fournissons ex usine.
Tous les prix s'entendent net.

Terms of Trade

1. The following conditions form the base for all further quotations, sales and deliveries and remain an integral part of the contract, although not specifically mentioned. Differing terms on the part of purchasers are not valid, nor do they obligate us to accept any claims. Amendments of the following terms are subject to a written confirmation. Even verbal agreements have to be confirmed in writing. Invalid or inoperative single terms do not affect validity of the remaining terms.

2. Our prices are to be understood as net, without tax, ex work and without packing, if not otherwise agreed. All quotations are without engagement. All increases in local taxes and fees, as well as price increases in raw-materials, wages and salaries and components will be billed to the account of the customer - even after conclusion of contract.

In case of obvious reasons for increasing prices, allfa would be allowed to cut possibly granted discounts instead of increasing prices.

3. If not otherwise agreed all invoices have to be paid net upon receipt. Should payment by irrevocable L/C be agreed, please consider the following: Due to high bank charges, we can only accept L/C's exceeding EUR 2.560. An irrevocable letter of credit must be made out in our name, in Euro only, payable at sight through one of our banks. All foreign bank charges are for the customer's account. L/C should be valid at least 6 weeks, if not otherwise agreed.

Cheque payments are subject to their receipt. All foreign bank charges are for the customers account.

Should a payment remain unpaid despite a reminder, or if information about the customers financial status creates doubt about outstanding payments, all outstanding invoices are to be settled immediately, regardless of prior agreement. In such a case allfa may stop all outstanding deliveries without notice. This does not alter our lien in the goods and our right to have them returned to us.

In case of delayed settlement allfa is entitled to charge interest of at least 3 % over the current discount rate of the Federal Bank in Germany

4. Delivery will always be effected in the easiest and quickest way, decided by allfa. Partial shipments are allowed if not otherwise excluded. Insurance has to be covered by the customer.

5. Delivery times are to be seen as approximate. Recourse is excluded in case of transport problems, faulty or missing packing, breakdowns in production and components or similar problems, as well as force majeure.

Should a subsupplier pull out from his contract, allfa would be allowed to pull out as well without notice. Over- and undershipments of about 10 % in quantity and value are permitted.

6. Should the customer refuse to accept delivery, allfa would be entitled to claim for acceptance, to store the goods at the customers expense or to withdraw from the contract claiming a 25 % unproved compensation.

Additionally allfa would be entitled to charge interests of at least 3 % over the current discount rate at the Federal Bank in Germany.

7. allfa guarantees the contractual quality of goods delivered. Guarantee is limited either to replacement of the returned goods or by an additional discount, however allfa decides. Return of faulty goods must be accepted in advance by allfa.

The customer may withdraw from the contract if the replaced goods are also faulty or do not meet agreed quality standards. Claims concerning quantity or quality can only be accepted within 8 days of receipt.

8. Our liability for visible faults expires within one week of receipt of the goods. The basis for every claim is that the customer returns the goods free of charge to our warehouse. allfa will credit freight charges if the claims can be accepted. Liability ends within one month after the complaint was rejected.

9. Delivered goods belong to allfa until outstanding invoices have been settled.

10. Place of contract and liability will be our main office address, Gelsenkirchen, Germany, either for a dispute on payment or delivery.

Furthermore, allfa retains the right to sue either under German law or internationally. Payment must be made in either Euro.