



















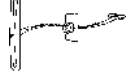
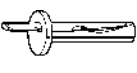


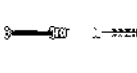
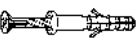

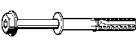






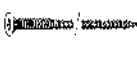

















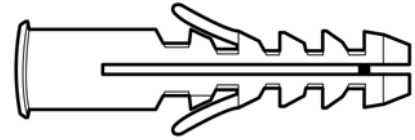
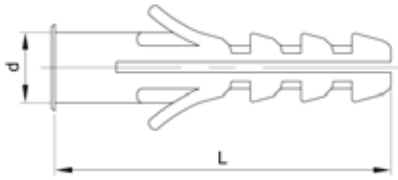
## Anchoring products/plugs 8

 <p>Page 8-3</p> <p><b>MAXXFAST UniFast</b></p>	 <p>Page 8-4</p> <p><b>Nylon</b></p>	 <p>Page 8-5</p> <p><b>FISCHER Type S</b></p>	 <p>Page 8-7</p> <p><b>FISCHER Assortment</b></p>	 <p>Page 8-8</p> <p><b>FISCHER Type MS</b></p>
 <p>Page 8-9</p> <p><b>FISCHER Type SX</b></p>	 <p>Page 8-11</p> <p><b>MAXXFAST MultiFast</b></p>	 <p>Page 8-12</p> <p><b>FISCHER Type UX/UX-R</b></p>	 <p>Page 8-13</p> <p><b>MAXXFAST 4Fast</b></p>	 <p>Page 8-14</p> <p><b>FISCHER Universal type FU</b></p>
 <p>Page 8-15</p> <p><b>MOLLY</b></p>	 <p>Page 8-16</p> <p><b>MOLLY Hand plier</b></p>	 <p>Page 8-17</p> <p><b>FISCHER Type HM/HMS</b></p>	 <p>Page 8-18</p> <p><b>FISCHER Installation tools</b></p>	 <p>Page 8-19</p> <p><b>SPIT Driva</b></p>
 <p>Page 8-20</p> <p><b>FISCHER Type GB</b></p>	 <p>Page 8-21</p> <p><b>FISCHER Type GK/GKS</b></p>	 <p>Page 8-22</p> <p><b>FISCHER Type FTP Steel</b></p>	 <p>Page 8-22</p> <p><b>FISCHER Type FTP Plastic</b></p>	 <p>Page 8-23</p> <p><b>FISCHER Installation tool FTP</b></p>
 <p>Page 8-24</p> <p><b>FISCHER Toggle plug</b></p>	 <p>Page 8-25</p> <p><b>SPIT Type SDA</b></p>	 <p>Page 8-26</p> <p><b>FISCHER Type FNH</b></p>	 <p>Page 8-27</p> <p><b>MAXXFAST HammerFast</b></p>	 <p>Page 8-28</p> <p><b>FISCHER Type N-Z</b></p>
 <p>Page 8-30</p> <p><b>FISCHER Type N-FZ</b></p>	 <p>Page 8-31</p> <p><b>FISCHER Type N-D</b></p>	 <p>Page 8-32</p> <p><b>FISCHER Type SXS</b></p>	 <p>Page 8-34</p> <p><b>FISCHER Type F-S</b></p>	 <p>Page 8-35</p> <p><b>FISCHER Type F-M</b></p>
 <p>Page 8-36</p> <p><b>FISCHER Type FUR-T</b></p>	 <p>Page 8-37</p> <p><b>FISCHER Type FUR-SS</b></p>	 <p>Page 8-38</p> <p><b>FISCHER Type SXR-T</b></p>	 <p>Page 8-39</p> <p><b>FISCHER Type FFS</b></p>	 <p>Page 8-40</p> <p><b>FISCHER Type JS</b></p>
 <p>Page 8-41</p> <p><b>FISCHER Type S/J/S</b></p>	 <p>Page 8-42</p> <p><b>FISCHER Cover cap</b></p>	 <p>Page 8-43</p> <p><b>Expanding plug</b></p>	 <p>Page 8-44</p> <p><b>FISCHER Type M</b></p>	 <p>Page 8-45</p> <p><b>FISCHER Type PA</b></p>
 <p>Page 8-46</p> <p><b>SPIT Type SA</b></p>	 <p>Page 8-47</p> <p><b>Installation tool SA</b></p>	 <p>Page 8-48</p> <p><b>FISCHER Type EA II</b></p>	 <p>Page 8-50</p> <p><b>Installation tool for EA II</b></p>	 <p>Page 8-51</p> <p><b>FISCHER Type FHY</b></p>
 <p>Page 8-52</p> <p><b>FISCHER Type FSA-S</b></p>	 <p>Page 8-53 NEN ~2316</p> <p><b>With conical nut</b></p>	 <p>Page 8-54</p> <p><b>With projecting bolt</b></p>	 <p>Page 8-55</p> <p><b>With hexagon screw</b></p>	 <p>Page 8-56</p> <p><b>Self tapping screw anchor type BT</b></p>

## Anchoring products/plugs 8

<p>Page 8-58</p>  <p><b>MAXXFAST ThruFast-ThruMaxx</b></p>	<p>Page 8-61</p>  <p><b>SPIT Type FIX II</b></p>	<p>Page 8-63</p>  <p><b>FISCHER Type FBN II</b></p>	<p>Page 8-66</p>  <p><b>FISCHER Type FAZ II</b></p>	<p>Page 8-68</p>  <p><b>FISCHER Type FH II-B</b></p>
<p>Page 8-70</p>  <p><b>FISCHER Type FH II-S</b></p>	<p>Page 8-72</p>  <p><b>FISCHER Type FZA</b></p>	<p>Page 8-73</p>  <p><b>FISCHER Tool</b></p>	<p>Page 8-75</p>  <p><b>LIEBIG Type B</b></p>	<p>Page 8-77</p>  <p><b>LIEBIG Type S</b></p>
<p>Page 8-78</p>  <p><b>LIEBIG Type AB</b></p>	<p>Page 8-79</p>  <p><b>MAXXFAST Chemical fixing</b></p>	<p>Page 8-80</p>  <p><b>SPIT Type Maxima</b></p>	<p>Page 8-82</p>  <p><b>FISCHER Type RG M</b></p>	<p>Page 8-83</p>  <p><b>FISCHER Setting tool</b></p>
<p>Page 8-84</p>  <p><b>Capsule</b></p>	<p>Page 8-86</p>  <p><b>Injection cartridge</b></p>	<p>Page 8-88</p>  <p><b>Injection tool</b></p>	<p>Page 8-89</p>  <p><b>MAXXFAST Anchoring</b></p>	<p>Page 8-91</p>  <p><b>FISCHER Injection anchor sleeve</b></p>
<p>Page 8-92</p>  <p><b>FISCHER Type RG MI</b></p>	<p>Page 8-93 DIN 529 A NEN 2328 A</p>  <p><b>Type A</b></p>	<p>Page 8-94 DIN 529 E NEN 2328 E</p>  <p><b>Type E</b></p>	<p>Page 8-95</p>  <p><b>With hook 50 or 100mm</b></p>	<p>Page 8-97</p>  <p><b>Shuttering</b></p>
<p>Page 8-97</p>  <p><b>Shuttering</b></p>	<p>Page 8-99</p>  <p><b>VEMO Type 1550</b></p>	<p>Page 8-100</p>  <p><b>VEMO Type 995G</b></p>	<p>Page 8-101</p>  <p><b>VEMO Type 1036</b></p>	<p>Page 8-102</p>  <p><b>VEMO Type 1130</b></p>
<p>Page 8-103</p>  <p><b>VEMO Type 1551</b></p>	<p>Page 8-103</p>  <p><b>VEMO Type 2244</b></p>			

## Wall plug UniFast



### Technical data

d	5	6	7	8	10	12
L	25	30	30	40	50	60
Drill ø	5	6	7	8	10	12
Drill depth (min.)	35	40	40	50	60	70
Application in combination with:						
Chipboard screws	2,5-4	3,5-4	4-4,5	4,5-6	6-8	8-10
Pull-out force for wood screw in kN						
Concrete ≥ C20/25	0,42	0,64	0,76	0,90	1,80	2,10
Brick ≥ Mz12	0,36	0,50	0,64	0,80	0,88	0,90

### 30500 MAXXFAST Wall plug UniFast

MF50

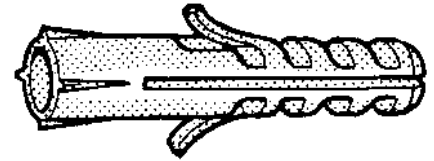
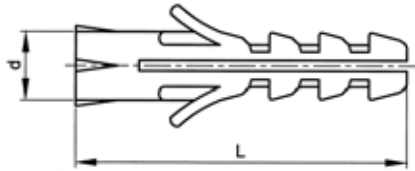
**Material** Plastic Nylon (polyamide)  
**Colour** Grey  
**Packaging** Standard

**MAXXFAST**  
PROFESSIONAL HARDWARE



d	☒	Art.number	d	☒	Art.number	d	☒	Art.number
5MM	100	<a href="#">30500.050.001</a>	7MM	100	<a href="#">30500.070.001</a>	10MM	50	<a href="#">30500.100.001</a>
6MM	100	<a href="#">30500.060.001</a>	8MM	100	<a href="#">30500.080.001</a>	12MM	25	<a href="#">30500.120.001</a>

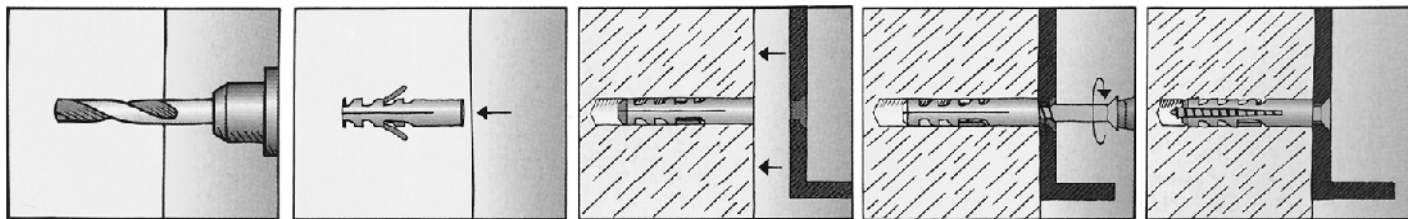
## Wall plug



### Technical data

d	4	5	6	7	8	10	12	14
L	20	25	30	37	40	50	60	80
Drill ø	4	5	6	7	8	10	12	14
Drill depth (min.)	25	35	40	45	55	70	80	100
Application in combination with:								
Wood-/Hexagon head wood screws ø	2-3	3-4,5	4,5-5	4,5-5,5	5-6	6-8	8-10	10-12

### Assembly sequence



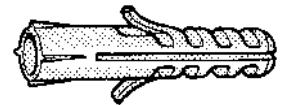
### Article groups

Material	Colour	Packaging	Code	Page
Plastic Nylon	Grey	Standard	63158	8-4
Plastic Nylon	Grey	Large	63159	8-4

#### 63158 Wall plug

N05A

**Material** Plastic Nylon (polyamide)  
**Colour** Grey  
**Packaging** Standard

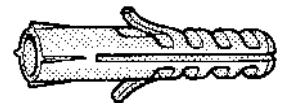


d	☒	Art.number	d	☒	Art.number	d	☒	Art.number
4MM	200	<a href="#">63158.040.001</a>	7MM	100	<a href="#">63158.070.001</a>	12MM	25	<a href="#">63158.120.001</a>
5MM	100	<a href="#">63158.050.001</a>	8MM	100	<a href="#">63158.080.001</a>	14MM	20	<a href="#">63158.140.001</a>
6MM	100	<a href="#">63158.060.001</a>	10MM	50	<a href="#">63158.100.001</a>			

#### 63159 Wall plug

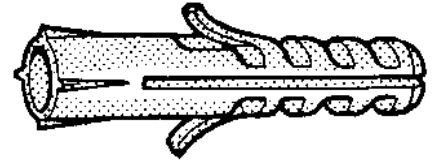
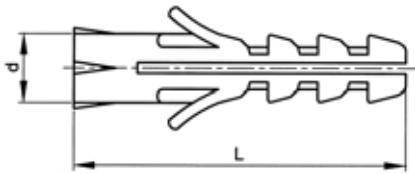
N05A

**Material** Plastic Nylon (polyamide)  
**Colour** Grey  
**Packaging** Large



d	☒	Art.number	d	☒	Art.number	d	☒	Art.number
5MM	1000	<a href="#">63159.050.001</a>	8MM	250	<a href="#">63159.080.001</a>	12MM	100	<a href="#">63159.120.001</a>
6MM	500	<a href="#">63159.060.001</a>	10MM	200	<a href="#">63159.100.001</a>			

## Wall plug type S

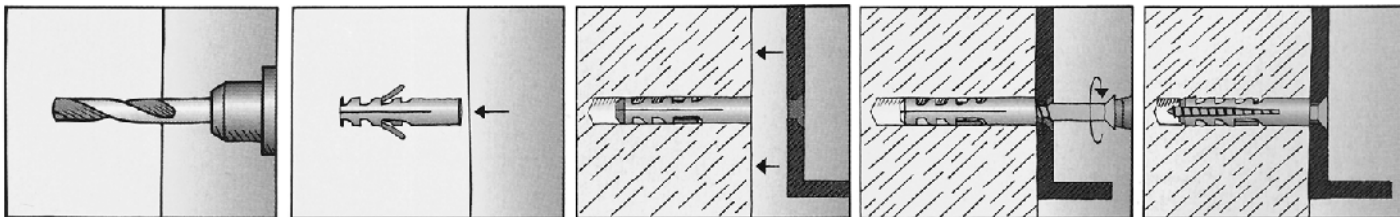


### Technical data

Type	S4	S5	S6	S7	S8	S10	S12	S14	S16	S20
<b>d</b>	4	5	6	7	8	10	12	14	16	20
<b>L</b>	20	25	30	30	40	50	60	75	80	90
<b>Drill ø</b>	4	5	6	7	8	10	12	14	16	20
<b>Drill depth (min.)</b>	25	35	40	40	55	70	80	90	100	120
<b>Application in combination with:</b>										
<b>Chipboard screws</b>	2-3	3-4	4-5	4-5,5	4,5-6	6-8	8-10	10-12	12-1/2	16
<b>Pull-out force for wood screw in kN</b>										
<b>Concrete ≥ C12/15</b>	0,8	1,4	2	2,3	3,0	5,5	7,7	9,25	11,3	19,4
<b>Brick ≥ Mz12</b>	0,7	1,2	1,4	2,2	2,5	-	-	-	-	-
<b>Sandlime brick ≥ KS12</b>	0,7	1,2	1,4	-	2,75	-	-	-	-	-
<b>Cellular concrete ≥ G2</b>	-	-	0,25	-	0,35	0,8	1,35	2	-	-

- Pull-out force in kN at the largest possible screw diameter, (values in bold print), and a correct mounting of the wall plug in a supporting surface.
- It is advised to take a safetyfactor of ≥ 5.
- When using chipboard screws, the values should be reduced by 30%.
- Because of the possible variation in joint quality, the values apply only to fixing operations in brick.

### Assembly sequence



### Article groups

Material	Colour	Packaging	Code	Page
Plastic Nylon	Grey	Standard	63100	8-5
Plastic Nylon	Grey	Large	63110	8-6

63100 FISCHER Wall plug type S		N01A
<b>Material</b>	Plastic Nylon (polyamide)	
<b>Colour</b>	Grey	
<b>Packaging</b>	Standard	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
S 4	200	<a href="#">63100.040.001</a>	S 8	100	<a href="#">63100.080.001</a>	S 16	10	<a href="#">63100.160.001</a>
S 5	100	<a href="#">63100.050.001</a>	S 10	50	<a href="#">63100.100.001</a>	S 20	5	<a href="#">63100.200.001</a>
S 6	100	<a href="#">63100.060.001</a>	S 12	25	<a href="#">63100.120.001</a>			
S 7	100	<a href="#">63100.070.001</a>	S 14	20	<a href="#">63100.140.001</a>			

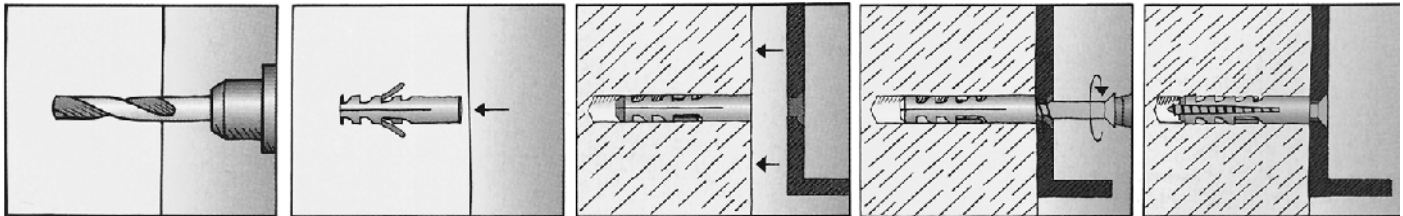
<b>63110 FISCHER Wall plug type S</b>		<b>N01A</b>
<b>Material</b>	Plastic Nylon (polyamide)	
<b>Colour</b>	Grey	
<b>Packaging</b>	Large	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
S 5	1000	<a href="#">63110.050.001</a>	S 6	500	<a href="#">63110.060.001</a>	S 8	250	<a href="#">63110.080.001</a>

## Assortment box wall plugs



### Assembly sequence



63150 FISCHER Assortment box wall plugs type S

N03B

Packaging Standard



Type  [Art.number](#)

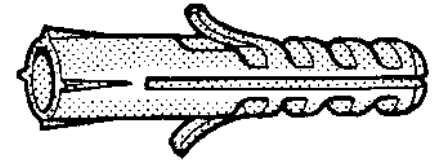
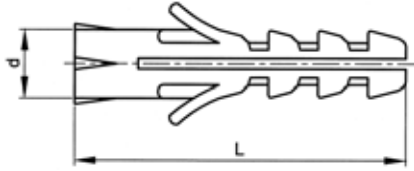
BOX S-5/6/8

1

[63150.568.001](#)

- Packed in a red plastic box with transparent window
- Contents:
- 100 nylon wall plugs type S 5
- 100 nylon wall plugs type S 6
- 100 nylon wall plugs type S 8

## Wall plug type MS

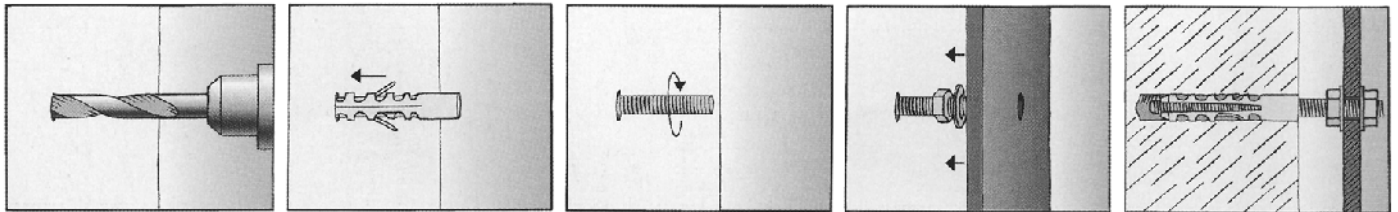


### Technical data

Type	M6-S	M8-S	M10-S	M12-S
d	8	10	14	16
L	40	50	70	80
Drill ø	8	10	14	16
Drill depth (min.)	55	70	90	100
<b>Pull-out force in kN</b>				
Concrete C12/15	2,1	3,8	4,6	7,4
Brick Mz12	1,7	2,3	3,2	5,5
Sandlime brick ≥ KS12	1,7	2,3	3	5

- Wall plug type MS is applicable with metric threaded fasteners.
- It is advised to take a safetyfactor:  $\geq 7$ .

### Assembly sequence

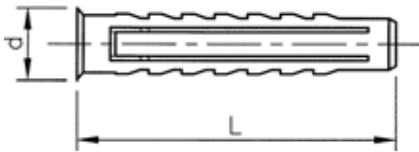


<b>63160</b>	<b>FISCHER Wall plug type MS</b>	<b>N03B</b>
<b>Thread</b>	Metric thread	
<b>Material</b>	Plastic Nylon (polyamide)	
<b>Colour</b>	Beige	
<b>Packaging</b>	Standard	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M6 S	100	<a href="#">63160.060.001</a>	M10 S	20	<a href="#">63160.100.001</a>			
M8 S	50	<a href="#">63160.080.001</a>	M12 S	10	<a href="#">63160.120.001</a>			



## Wall plug type SX

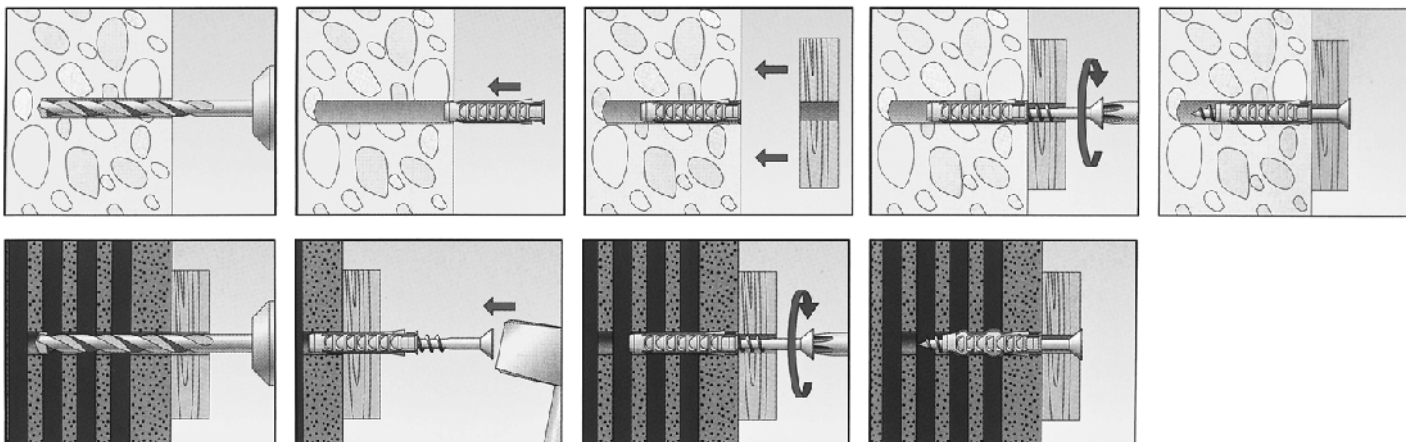


### Technical data

Type	SX 4	SX 5	SX 6	SX 6-L	SX 8	SX 8-L	SX 10	SX 12	SX 14	SX 16
d	4	5	6	6	8	8	10	12	14	16
L	20	25	30	50	40	65	50	60	70	80
Drill ø	4	5	6	6	8	8	10	12	14	16
Drill depth (min.)	25	35	40	60	50	75	70	80	90	100
Application in combination with:										
Chipboard screws	2-3	3-4	4-5	4-5	4,5-6	4,5-6	6-8	8-10	10-12	12-1/2
Allowable load in kN										
Concrete ≥ C20/25	-	0,29	0,7	0,7	0,71	0,71	1,21	1,71	2,01	2,01
Brick ≥ Mz12	-	0,23	0,31	0,31	0,59	0,59	0,64	0,71	0,8	0,8
Sandlime brick ≥ KS12	-	0,29	0,5	0,5	0,6	0,6	1,21	1,71	2,01	2,01
Cellular concrete ≥ G2	-	0,03	0,03	0,03	0,04	0,04	0,09	0,14	0,31	0,31
Cellular concrete ≥ G4	-	0,09	0,09	0,09	0,14	0,14	0,29	0,44	0,49	0,49
Ventilation stone ≥ Hlz12, ρ ≥ 1,0 kg/dm <sup>3</sup>	-	0,07	0,07	0,07	0,17	0,17	0,17	0,26	0,44	0,44
Hollow sandlime brick KSL12	-	0,17	0,3	0,3	0,33	0,33	0,29	0,35	0,31	0,31

- Allowable load in kN at the largest possible screw diameter, (values in bold print), and a correct mounting of the wall plug in a supporting surface.
- When using chipboard screws, the values should be reduced by 30%.
- Because of the possible variation in joint quality, the values apply only to fixing operations in brick.

### Assembly sequence



### Article groups

Material	Colour		Packaging	Code	Page
Plastic Nylon	Grey	SX	Standard	63120	8-9
Plastic Nylon	Grey	SX-L	Standard	63121	8-10

**63120 FISCHER Wall plug type SX** N01A

Material: Plastic Nylon (polyamide)  
 Colour: Grey  
 Packaging: Standard

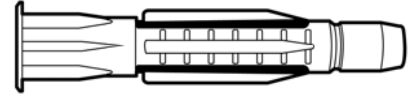
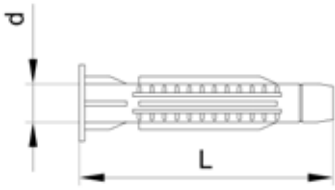



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
SX4	200	<a href="#">63120.040.001</a>	SX8	100	<a href="#">63120.080.001</a>	SX14	20	<a href="#">63120.140.001</a>
SX5	100	<a href="#">63120.050.001</a>	SX10	50	<a href="#">63120.100.001</a>	SX16	10	<a href="#">63120.160.001</a>
SX6	100	<a href="#">63120.060.001</a>	SX12	25	<a href="#">63120.120.001</a>			

<b>63121</b>	<b>FISCHER Wall plug type SX-L</b>		<b>N01A</b>
<b>Material</b>	Plastic Nylon (polyamide)	 	
<b>Colour</b>	Grey		
<b>Packaging</b>	Standard		

Type	✉	Art.number	Type	✉	Art.number	Type	✉	Art.number
SXL6	100	<a href="#">63121.060.002</a>						
SXL8	50	<a href="#">63121.080.002</a>						

## Wall plug MultiFast



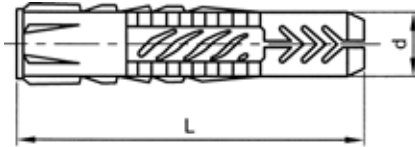
### Technical data

<b>d</b>	<b>6</b>	<b>8</b>	<b>10</b>
<b>L</b>	35	50	60
<b>Drill ø</b>	6	8	10
<b>Drill depth (min.)</b>	45	60	70
<b>Application in combination with:</b>			
<b>Chipboard screws</b>	4x45	4,5x60	5x70
<b>Pull-out force for wood screw in kN</b>			
<b>Concrete ≥ C20/25</b>	0,65	0,80	0,95
<b>Brick ≥ Mz12</b>	0,20	0,32	0,38

30502 MAXXFAST Wall plug MultiFast		MF50
<b>Material</b>	Plastic Nylon (polyamide)	
<b>Colour</b>	Grey	
<b>Packaging</b>	Standard	
<b>MAXXFAST</b> PROFESSIONAL HARDWARE		

d	☒	Art.number	d	☒	Art.number	d	☒	Art.number
6MM	100	<a href="#">30502.060.001</a>	8MM	100	<a href="#">30502.080.001</a>	10MM	50	<a href="#">30502.100.001</a>

**Plug universal UX/UX-R**



**Technical data**

Type	UX (R) 6	UX (R) 8	UX (R) 10	UX 12	UX 14
Drill ø	6	8	10	12	14
Drill depth (min.)	45	60	75	85	95
Material thickness (min.)	9,5	9,5	12,5	-	-
Plug length	35	50	60	70	75
Chipboard screws ø	4-5	4,5-6	6-8	8-10	10-12

**Article groups**

Material	Packaging	Code	Page
Plastic UX	Standard	63276	8-12
Plastic UX-R	Standard	63277	8-12

**63276 FISCHER Plug universal UX** N03A

Material: Plastic  
Packaging: Standard




Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
UX 6	100	<a href="#">63276.060.001</a>	UX 10	50	<a href="#">63276.100.001</a>	UX 14	20	<a href="#">63276.140.001</a>
UX 8	100	<a href="#">63276.080.001</a>	UX 12	25	<a href="#">63276.120.001</a>			

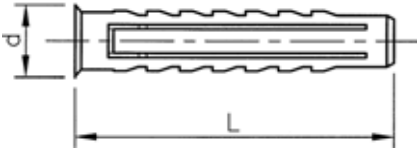
**63277 FISCHER Plug universal UX-R** N03A

Material: Plastic  
Packaging: Standard




Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6 UX-R	100	<a href="#">63277.060.001</a>	8 UX-R	100	<a href="#">63277.080.001</a>	10 UX-R	50	<a href="#">63277.100.001</a>

## Wall plug 4Fast



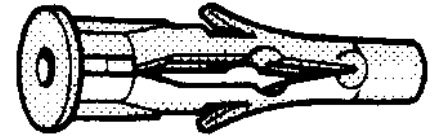
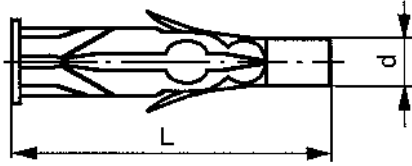
### Technical data

d	5	6	8	10	12
L	25	30	40	50	60
Drill ø	5	6	8	10	12
Drill depth (min.)	30	50	50	60	70
Application in combination with:					
Chipboard screws	4x30	4,5x50	5x50	6x60	10x70
Pull-out force for wood screw in kN					
Concrete ≥ C20/25	0,80	1,10	1,20	1,86	2,60
Brick ≥ Mz12	0,46	0,90	1,00	1,10	1,20

30505 MAXXFAST Wall plug 4Fast		MF50
Material	Plastic Nylon (polyamide)	
Colour	Grey	
Packaging	Standard	
<b>MAXXFAST</b> PROFESSIONAL HARDWARE		

d	☒	Art.number	d	☒	Art.number	d	☒	Art.number
5MM	100	<a href="#">30505.050.001</a>	8MM	100	<a href="#">30505.080.001</a>	12MM	25	<a href="#">30505.120.001</a>
6MM	100	<a href="#">30505.060.001</a>	10MM	50	<a href="#">30505.100.001</a>			

## Universal fixing

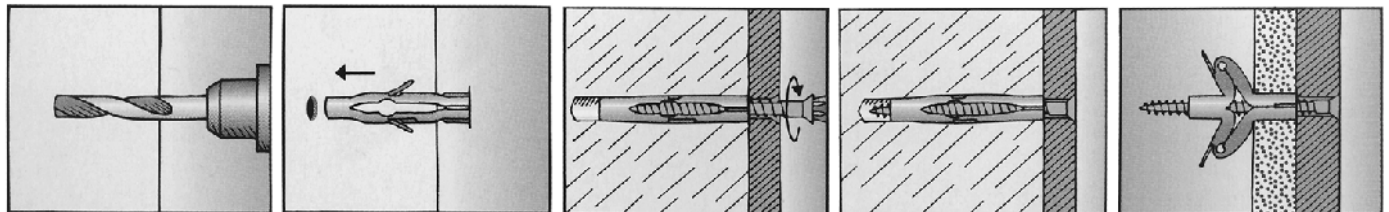


### Technical data

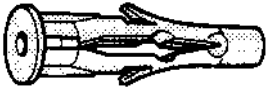
Type	FU 6x35	FU 6x45	FU 8x50	FU 10x60
d	6	6	8	10
L	35	45	50	60
Drill ø	6	6	8	10
Drill depth (min.)	45	55	60	70
Material thickness (min.)	6	6	6	6
Application in combination with:				
Chipboard screws	3-3,5	3-3,5	4-4,5	5-6
Pull-out force for wood screw/				
Pull-out force for chipboard screws				
Concrete C20/25	2/1	2/1	4/2	6/3
Brick Mz12	1,8/0,6	1,8/0,6	3,5/1,4	5,5/1,7
Sandlime brick KS12	1,8/0,8	1,8/0,8	3,5/1,7	5,5/2,1
Pumice grit V2	0,75/0,2	0,75/0,2	1,5/0,45	1,6/0,65
Cellular concrete PB2, PP2 (G2)	0,25/0,2	0,25/0,2	0,65/0,6	0,9/0,8
Cellular concrete PB4, PP4 (G4)	0,9/0,5	0,9/0,5	1,6/1,1	1,9/1,7
Ventilation stone Hlz12	-/0,9	-/0,9	-/1,1	-/1,5
Hollow sandlime brick KSL6	-/1	-/1	-/1,5	-/2
Plasterboard 10mm	-/0,4	-/0,4	-/0,45	-/0,45
Chipboard 10mm	-/1,2	-/1,2	-/1,4	-/2

- Pull-out force in kN at the largest possible screw diameter, (values in bold print), and a correct mounting of the plug in a supporting surface.
- It is advised to take a safetyfactor of  $\geq 7$ .

### Assembly sequence

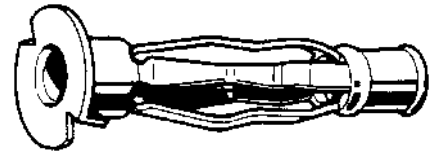
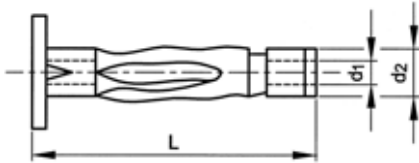


8

<b>63270 FISCHER Universal fixing type FU</b>		<b>N03A</b>
Material	Plastic Nylon (polyamide)	
Colour	Grey	
Packaging	Standard	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FU 6X35	50	<a href="#">63270.060.035</a>	FU 8X50	50	<a href="#">63270.080.050</a>			
FU 6X45	50	<a href="#">63270.060.045</a>	FU 10X60	25	<a href="#">63270.100.060</a>			

## Screw anchor



### Technical data

Type	d <sub>1</sub>	L	d <sub>2</sub>	Drill ø	Grip range	Screwlength (min.)
40S4SV	M4	33	8	8	6-13	40
40SL4SV	M4	46	8	8	10-24	50
40XL4SV	M4	59	8	8	32-38	65
6E5SV	M5	36	11	11	3-13	40
6S5SV	M5	50	11	11	3-16	55
6SL5SV	M5	75	11	11	16-45	80
8E6SV	M6	34	13	13	3-13	40
8S6SV	M6	50	13	13	3-16	55
8SL6SV	M6	75	13	13	16-45	80

- Special features of MOLLY screw anchors:
- Ideally suited for cavity materials e.g. walls, building bricks, soft materials e.g. plasterboard, wood, chipboard, etc.
- Blind installation from one side with a screwdriver and key type MJ68 or handplier type BT2000.
- Permanent anchoring which can be used unlimitedly.
- Provided with pointed hooks preventing turning.
- Large contact area by spreaded wings.

#### 65110 MOLLY Screw anchor

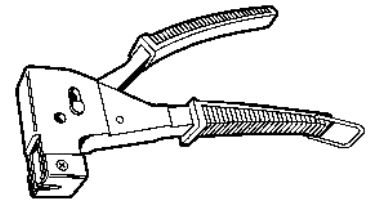
N07C

Thread	Metric thread
Material	Steel
Surface treatment	Zinc plated
Packaging	Standard



Type = d1 x L	☒	Art.number	Type = d1 x L	☒	Art.number	Type = d1 x L	☒	Art.number
40 S 4SV=M4X33	100	<a href="#">65110.040.033</a>	6 E 5SV=M5X36	100	<a href="#">65110.050.036</a>	8 E 6SV=M6X34	100	<a href="#">65110.060.034</a>
40 SL 4SV=M4X46	100	<a href="#">65110.040.046</a>	6 S 5SV=M5X50	100	<a href="#">65110.050.050</a>	8 S 6SV=M6X50	100	<a href="#">65110.060.050</a>
40 XL 4SV=M4X59	100	<a href="#">65110.040.059</a>	6 SL 5SV=M5X75	100	<a href="#">65110.050.075</a>	8 SL 6SV=M6X75	100	<a href="#">65110.060.075</a>

**Hand plier**

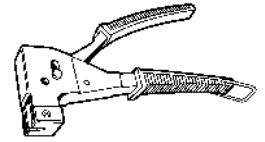


**65210 MOLLY Hand plier** **N07C**

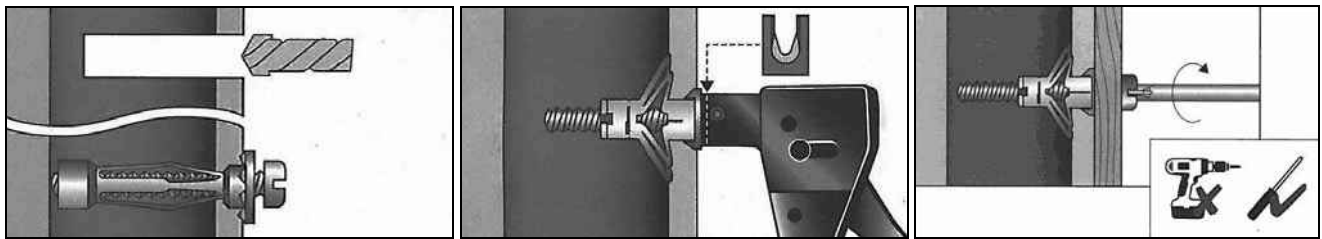
Packaging Standard



**MOLLY**



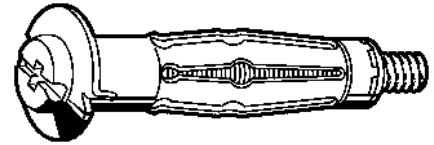
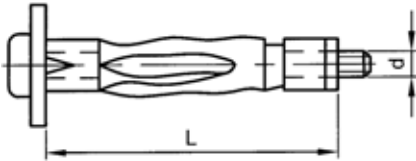
**Assembly sequence**



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
MT 2000	1	<a href="#">65210.001.775</a>						



## Cavity fixing

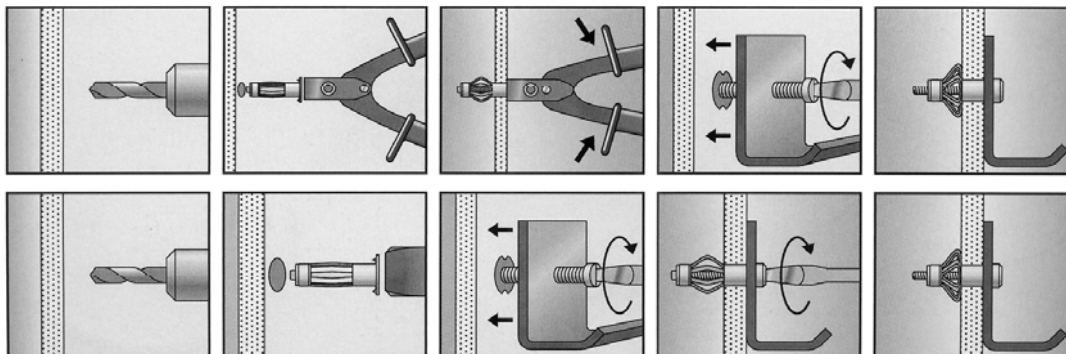


### Technical data

Type	d	L	Screw size	Drill ø	Drill depth (min.)	Material thickness (max.)	Structural part thickness (max.)
HM 4x32	M4	32	-	8	42	3-13	16
HM 4x32 S	M4	32	M4X40	8	42	3-13	16
HM 4x46 S	M4	46	M4X2	8	56	5-18	23
HM 4x59 S	M4	59	M4X66	8	69	35-42	16
HM 5x37 S	M5	37	M5X45	11	47	6-15	19
HM 5x52 S	M5	52	M5X60	11	62	7-21	24
HM 5x65 S	M5	65	M5X73	11	75	20-34	24
HM 6x37	M6	37	-	13	47	6-15	14
HM 6x37 S	M6	50	M6X60	13	62	10-21	24
HM 6x52 S	M6	52	M6X60	13	62	10-21	24
HM 6x65 S	M6	65	M6X70	13	75	20-34	24
HM 6x80	M6	80	-	13	90	38-50	24
HM 6x80 S	M6	80	M6X88	13	90	38-50	24
HM 8x55 SS	M8	55	M8X60	13	65	10-21	24

- HM4x32/ HM5x37/ HM6x37/ HM6x80 delivered without screw.
- HM8x55SS With hexagon head screw, assembly only by using professional nippers HM Z 1.

### Assembly sequence

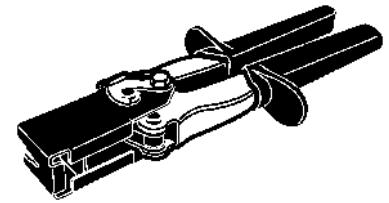



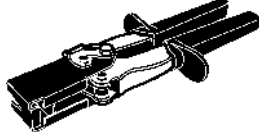
8

<b>63240 FISCHER Cavity fixing type HM/HM-S</b>		<b>N03A</b>
<b>Thread</b>	Metric thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	
		

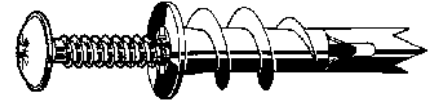
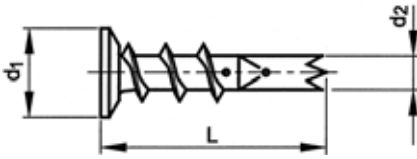
Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
HM4X32S	50	<a href="#">63240.040.132</a>	HM5X37S	50	<a href="#">63240.050.137</a>	HM6X52S	50	<a href="#">63240.060.152</a>
HM4X46S	50	<a href="#">63240.040.146</a>	HM5X52S	50	<a href="#">63240.050.152</a>	HM6X65S	50	<a href="#">63240.060.165</a>
HM4X54S	50	<a href="#">63240.040.154</a>	HM5X65S	50	<a href="#">63240.050.165</a>	HM6X80S	50	<a href="#">63240.060.180</a>
HM4X59S	50	<a href="#">63240.040.159</a>	HM6X37S	50	<a href="#">63240.060.137</a>	HM8X55S	50	<a href="#">63240.080.155</a>

**Cavity fixing installation tool**



<b>63248 FISCHER Installation tool</b>		<b>N03A</b>
<b>Packaging</b>	Standard	 
<b>Type</b>	✉ <b>Art.number</b>	
HMZ 2	1 <a href="#">63248.000.100</a>	<ul style="list-style-type: none"> <li>• DIY nipper</li> <li>• Suitable for the installation of FISCHER cavity fixings</li> </ul>
HMZ 1	1 <a href="#">63248.000.105</a>	<ul style="list-style-type: none"> <li>• Professional nipper</li> <li>• Suitable for the installation of FISCHER cavity fixings</li> </ul>

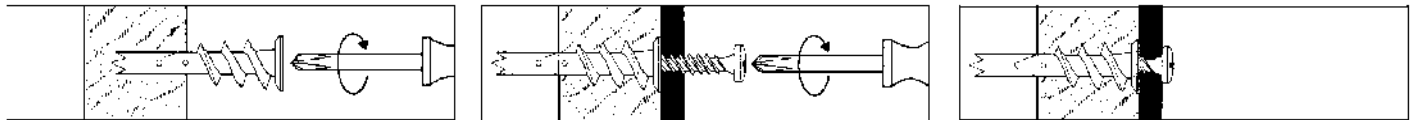
## Self-drilling anchor for plasterboard



### Technical data

Type	TP 12	TP 12-PLUS	TP 27	TP 30-PLUS
L	31	39	31	39
d <sub>1</sub>	13	10,5	13	10,5
d <sub>2</sub>	6	15,5	6	15,5
Grip range	0-12	0-12	12-27	5-30
Material thickness (min.)	10	10-13	10	10-13
Screw size	4,5x35	4,5x45	4,5x50	4,5x60
No. Pozidriv (Z)	2	2	2	2
<b>Assembly data</b>				
Pull-out force in N	300/400/350	600	300/400/350	600
Shear strength min. in N	900	1400	900	1400
Edge distance tensile in cm	2,5/2,5/3,5	-	2,5/2,5/3,5	-
Edge distance shear in cm	3,5/3,5/5	-	3,5/3,5/5	-
Distance between centrelines tensile in cm	3,5/3,5/5	-	3,5/3,5/5	-
Distance between centrelines shear in cm	4,5/4,5/7	-	4,5/4,5/7	-

### Assembly sequence



### Article groups

Material	Surface treatment	Packaging	Code	Page
Zamac 3	Zipl	Standard	70880	8-19
Zamac 3	Zipl	PLUS	70882	8-19

#### 70880 DRIVA Self-drilling anchor for plasterboard

**N05A**

**Material** Zamac 3  
**Surface treatment** Zinc plated  
**Packaging** Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
TP 12	100	<a href="#">70880.120.001</a>	TF 27	100	<a href="#">70880.270.001</a>			

- DRIVA self-drilling anchors are made of Zamac 3 (zinc alloy), type TP 12 with zinc plated screws for back panels and type TF 27 with zinc plated countersunk screw.
- The named values are successively applicable for plasterboard 10 mm, plasterboard 13 mm and cellular concrete (6 mm pre-drill).
- It is advised to take a safetyfactor  $\geq 5$ , due to the many different qualities of plasterboards.

#### 70882 DRIVA PLUS Self-drilling anchor for plasterboard

**N05A**

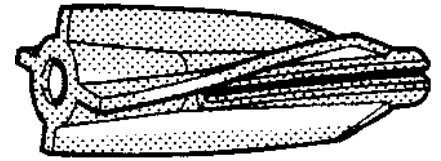
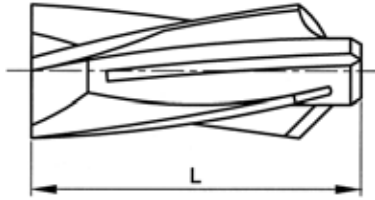
**Material** Zamac 3  
**Surface treatment** Zinc plated  
**Packaging** Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
TP 12-PLUS	100	<a href="#">70882.120.001</a>						

- DRIVA PLUS self-drilling self-setting toggle anchors are made of Zamac 3 (zinc alloy). Delivered with zinc plated screws, specially developed for DRIVA PLUS self-drilling anchors.
- It is advised to take a safetyfactor  $\geq 5$ , due to the many different qualities of plasterboards.

## Aircrete anchor

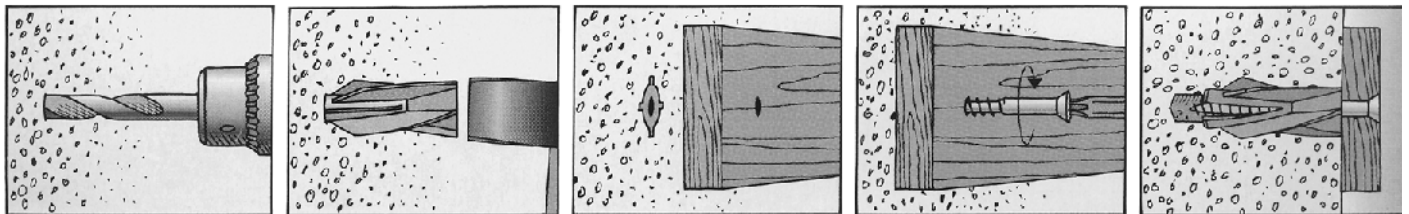


### Technical data

Type	GB8	GB10	GB14
L	50	55	75
Drill $\phi$	8	10	14
Drill depth (min.)	60	65	90
Screw $\phi$	5	7	10
Allowable load in kN			
Cellular concrete $\geq$ PB2, PP2 (G2)	0,2	0,25	0,4
Cellular concrete $\geq$ PB4, PP4 (G4)	0,4	0,6	0,9
Cellular concrete $\geq$ PB3,3 (GB3,3)	0,3	0,5	0,8
Cellular concrete $\geq$ P4,4 (GB4,4)	0,4	0,6	0,9
Cellular concrete $\geq$ P3,3 (GB3,3)	-	-	0,3

- Allowable load in tensile zone in roof- and ceiling panels.

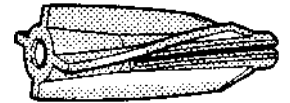
### Assembly sequence



### 63300 FISCHER Aircrete anchor type GB

N03B

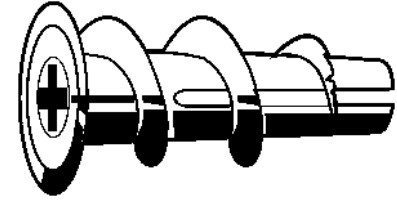
Material Plastic Nylon (polyamide)  
Colour Grey  
Packaging Standard



8

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
GB 8	25	<a href="#">63300.080.001</a>	GB 10	20	<a href="#">63300.100.001</a>	GB 14	10	<a href="#">63300.140.001</a>

## Plasterboard fixing

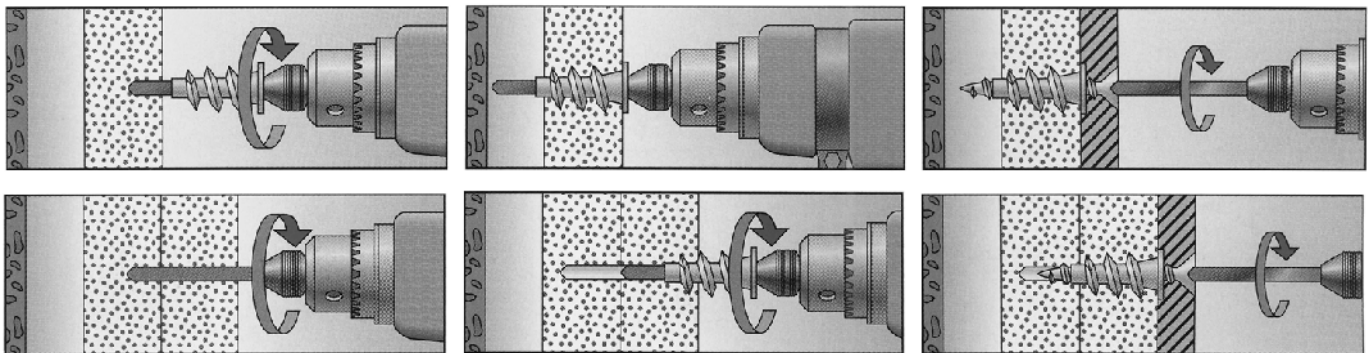


### Technical data

Type	GK	GKS
L	22	22
Cavity depth (min.)	25	25
Screw ø	4-5	4,5x35
Grip range	-	13
Allowable load in kN		
Plasterboard 9,5mm	0,07	0,07
Plasterboard 12,5mm	0,08	0,08
Plasterboard ≥ 2x12,5mm	0,11	0,11

- GKS Supplied with installation tool and plasterboard screws.
- GK Min. screw length = length of plug 22 mm + thickness of building component.

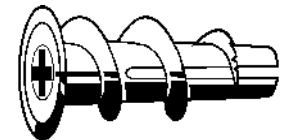
### Assembly sequence



### 63261 FISCHER Plasterboard fixing type GK/GKS

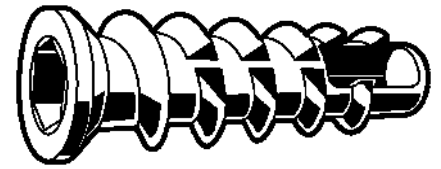
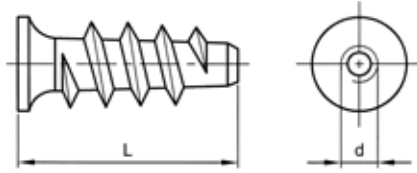
N03A

**Material** Plastic Nylon (polyamide)  
**Colour** Grey  
**Packaging** Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
GK 4,0X35	100	<a href="#">63261.040.035</a>						
GKS 4,5X35	50	<a href="#">63261.045.035</a>						

### Turbo anchor FTP steel



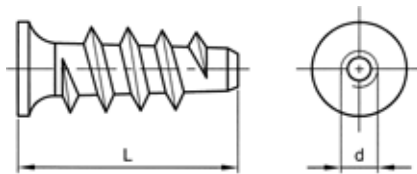
#### Technical data

Type	M6	M8	M10
Screw-in depth max.	20	25	30
Overall length	50	60	70
Depth of drilled hole to deepest point	60	70	80
Drill $\varnothing$	8	10	12
Screw $\varnothing$	M6	M8	M10

<b>63309 FISCHER Turbo anchor FTP steel</b>		<b>N03A</b>
<b>Material</b>	Steel	
<b>Packaging</b>	Standard	
		


Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M6	25	<a href="#">63309.060.001</a>	M8	25	<a href="#">63309.080.001</a>	M10	25	<a href="#">63309.100.001</a>

### Turbo anchor FTP plastic



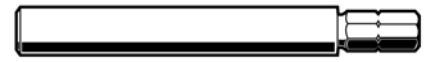
#### Technical data

Type	K4	K6	K8	K10
Screw-in depth max.	35	40	45	50
Overall length	50	50	60	70
Depth of drilled hole to deepest point	60	60	70	80
Drill $\varnothing$	8	8	10	12
Wood screws $\varnothing$	4-4,5	5-6	7-8	9-10
Screw $\varnothing$	M4	M5-6	M8	M8-10

<b>63310 FISCHER Turbo anchor FTP plastic</b>		<b>N03A</b>
<b>Material</b>	Plastic	
<b>Packaging</b>	Standard	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
K4	25	<a href="#">63310.040.001</a>	K8	25	<a href="#">63310.080.001</a>			
K6	25	<a href="#">63310.060.001</a>	K10	10	<a href="#">63310.100.001</a>			

## Installation tool FTP



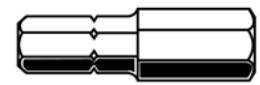
### Article groups

	Packaging	Code	Page
steel	Standard	63312	8-23
plastic	Standard	63313	8-23

#### 63312 FISCHER Installation tool FTP steel

N03A

Packaging Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
EM6	1	<a href="#">63312.060.001</a>	EM8	1	<a href="#">63312.080.001</a>	EM10	1	<a href="#">63312.100.001</a>

#### 63313 FISCHER Installation tool FTP plastic

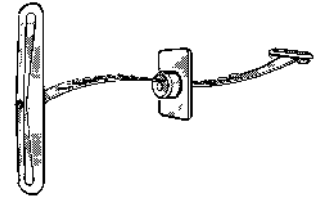
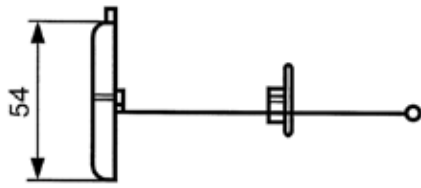
N03A

Packaging Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
EK4/6	1	<a href="#">63313.040.001</a>	EK8	1	<a href="#">63313.080.001</a>	EK10	1	<a href="#">63313.100.001</a>

## Toggle

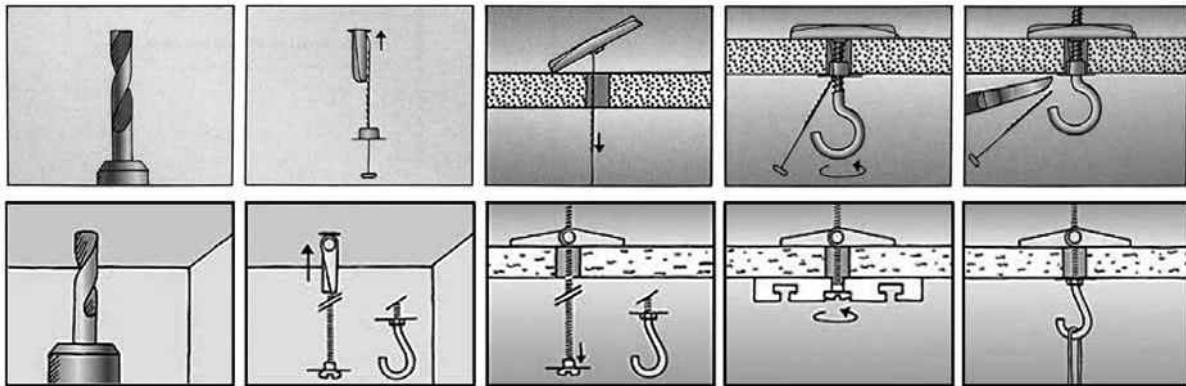


### Technical data

Type	d	L	Drill ø	Material thickness (min.)	Cavity depth (min.)	Wood screws ø	Pull-out force in kN
<b>K 54</b>	-	125	10	65	58	4	0,8
<b>KD 3</b>	M3x90	95	12	65	27	-	1
<b>KD 4</b>	M4x100	105	14	69	34	-	2
<b>KD 5</b>	M5x100	100	16	63	70	-	3
<b>KD 6</b>	M6x100	100	16	63	70	-	3,5
<b>KD 8</b>	M8x100	100	20	55	75	-	13,5
<b>KDH 3</b>	M3x80	105	12	51	27	-	0,1
<b>KDH 4</b>	M4x80	95	14	35	34	-	0,4
<b>KDH 5</b>	M5x90	130	16	60	70	-	0,6
<b>KDH 8</b>	M8x100	130	20	55	75	-	1,5

- It is advised to take a safetyfactor:  $\geq 7$ , (the load-bearing behaviour of the anchor base is not taken into account).
- KDH Hook bends open.

### Assembly sequence



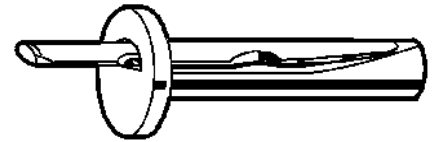
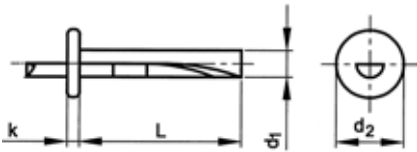
8

<b>63260</b>	<b>FISCHER Toggle type K</b>	<b>N03B</b>
<b>Material</b>	Plastic Nylon (polyamide)	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
K-54	25	<a href="#">63260.000.054</a>	KD-6	25	<a href="#">63260.001.006</a>	KDH-5	20	<a href="#">63260.002.005</a>
KD-3	50	<a href="#">63260.001.003</a>	KD-8	20	<a href="#">63260.001.008</a>	KDH-8	20	<a href="#">63260.002.008</a>
KD-4	25	<a href="#">63260.001.004</a>	KDH-3	25	<a href="#">63260.002.003</a>			
KD-5	25	<a href="#">63260.001.005</a>	KDH-4	25	<a href="#">63260.002.004</a>			



## Hammer-in anchor

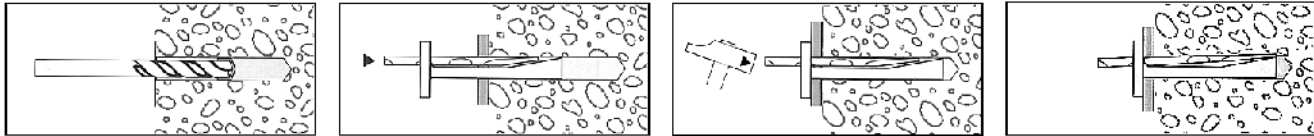


### Technical data

Type	SDA 6
d <sub>1</sub>	5,8
d <sub>2</sub>	15
k	2,5
L	35
Drill ø	6
Drill depth (min.)	40
Grip range (max.)	4,5
Allowable load in kN	
Concrete ≥ C20/25	0,5

- Loads are valid in the pressure zone.

### Assembly sequence



### 70665 SPIT Hammer-in anchor type SDA

P03A

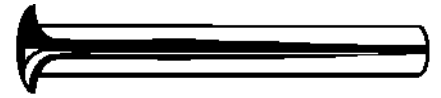
**Material** Steel  
**Surface treatment** Zinc plated yellow passivated  
**Packaging** Standard

**SPIT**



Type	✉	Art.number	Type	✉	Art.number	Type	✉	Art.number
SDA 6		100			<a href="#">70665.060.001</a>			

## Nail sleeve

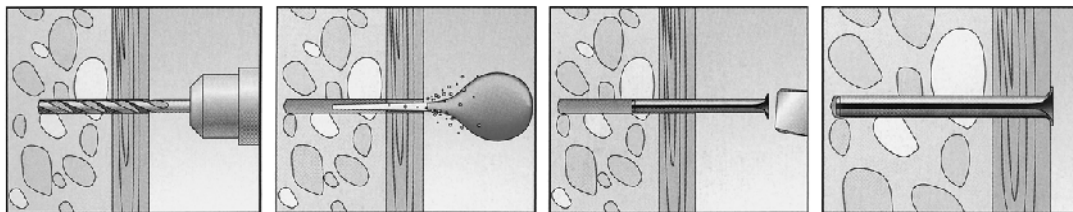


### Technical data

Type	FNH 5/50	FNH 6/40	FNH 6/50	FNH 6/60	FNH 6/80	FNH 8/70	FNH 8/90	FNH 8/110	FNH 8/130	FNH 8/150
d	5	6	6	6	6	8	8	8	8	8
L	50	40	50	60	80	70	90	110	130	150
Drill ø	5	6	6	6	6	8	8	8	8	8
Drill depth (min.)	30	40	40	40	40	50	50	50	50	50
Grip range (max.)	30	10	20	30	50	30	50	70	90	110
Allowable load in kN										
Concrete ≥ C20/25	0,2	0,55	0,55	0,55	0,55	1,1	1,1	1,1	1,1	1,1

- A DACROMET® surface coating eliminates the possibilities of damage which can arise due to hydrogen embrittlement.
- Drill depth (min.) For through fixing.
- Concrete ≥ B25 Recommended load for non-cracked concrete.

### Assembly sequence



### 63223 FISCHER Nail sleeve type FNH

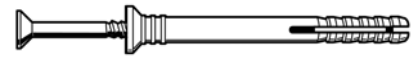
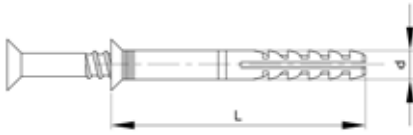
N03A

**Material** Steel  
**Surface treatment** Dacromet 500 LC Grade A  
**Packaging** Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FNH 5/50	100	<a href="#">63223.050.050</a>	FNH 6/80	100	<a href="#">63223.060.080</a>	FNH 8/130	100	<a href="#">63223.080.130</a>
FNH 6/40	100	<a href="#">63223.060.040</a>	FNH 8/70	100	<a href="#">63223.080.070</a>	FNH 8/150	50	<a href="#">63223.080.150</a>
FNH 6/50	100	<a href="#">63223.060.050</a>	FNH 8/90	50	<a href="#">63223.080.090</a>			
FNH 6/60	100	<a href="#">63223.060.060</a>	FNH 8/110	50	<a href="#">63223.080.110</a>			

## Wall plug HammerFast



### Technical data

d x L	5x30	5x35	5x50	6x40	6x50	6x60	8x60	8x80	8x100	8x120
Drill ø	5	5	5	6	6	6	8	8	8	8
Drill depth (min.)	50	55	70	60	70	80	80	100	120	140
Grip range	5	10	25	10	20	30	20	40	60	80
<b>Pull-out force in kN</b>										
Concrete ≥ C20/25	0,32	0,32	0,32	0,36	0,36	0,36	0,44	0,44	0,44	0,44
Brick ≥ Mz12	0,20	0,20	0,20	0,28	0,28	0,28	0,36	0,36	0,36	0,36

### 30510 MAXXFAST Wall plug HammerFast

**MF50**

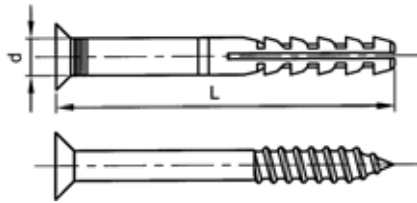
<b>Material</b>	Plastic Nylon (polyamide)
<b>Surface treatment</b>	Zinc plated
<b>Colour</b>	Grey
<b>Packaging</b>	Standard

**MAXXFAST**  
PROFESSIONAL HARDWARE



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
5X30MM	100	<a href="#">30510.050.030</a>	6X50MM	100	<a href="#">30510.060.050</a>	8X100MM	50	<a href="#">30510.080.100</a>
5X35MM	100	<a href="#">30510.050.035</a>	6X60MM	100	<a href="#">30510.060.060</a>	8X120MM	50	<a href="#">30510.080.120</a>
5X50MM	100	<a href="#">30510.050.050</a>						
6X40MM	100	<a href="#">30510.060.040</a>	8X60MM	100	<a href="#">30510.080.060</a>			
			8X80MM	50	<a href="#">30510.080.080</a>			

## Hammerfix type N-Z

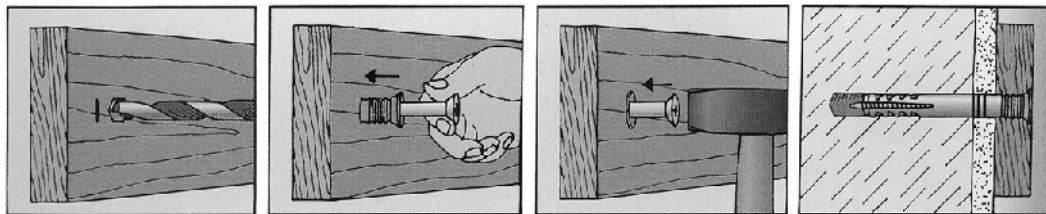


### Technical data

Type	N5x30 Z	N5x40 Z	N5x50 Z	N6x40 Z	N6x60 Z	N6x80 Z	N8x60 Z	N8x80 Z	N8x100 Z	N8x120 Z	N10x100 Z	N10x135 Z	N10x160 Z
d	5	5	5	6	6	6	8	8	8	8	10	10	10
L	30	40	50	40	60	80	60	80	100	120	100	135	160
Nail dimension	3,5x38	3,5x48	3,5x58	4x48	4x64	4x88	5x65	5x85	5x105	5x120	7x110	7x145	7x170
Drill ø	5	5	5	6	6	6	8	8	8	8	10	10	10
Drill depth (min.)	45	55	65	55	75	95	75	95	115	135	115	150	175
Grip range (max.)	5	15	25	10	30	50	20	40	60	80	50	85	110
Pull-out force in kN													
Concrete C20/25	1,1	1,1	1,1	1,4	1,4	1,4	1,9	1,9	1,9	1,9	3,4	3,4	3,4
Brick Mz12	1	1	1	1,2	1,2	1,2	1,7	1,7	1,7	1,7	3	3	3
Pumice grit V4	0,2	0,2	0,2	0,8	0,8	0,8	0,9	0,9	0,9	0,9	1,1	1,1	1,1
Sandlime brick KS12	1	1	1	1,2	1,2	1,2	1,7	1,7	1,7	1,7	3	3	3
Cellular concrete G2	0,2	0,2	0,2	0,25	0,25	0,25	0,5	0,5	0,5	0,5	0,7	0,7	0,7
Cellular concrete G4	0,5	0,5	0,5	0,65	0,65	0,65	0,8	0,8	0,8	0,8	1,2	1,2	1,2

- With pre-assembled steel zinc plated, yellow passivated nail or stainless steel A2 nail with Pozidriv (Z) cross recessed head.
- It is advised to take a safety factor:  $\geq 7$ .

### Assembly sequence



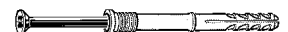
### Article groups

Material	Surface treatment	Colour	Packaging	Code	Page
Plastic Nylon	Zipl	Grey	Standard	63611	8-28
Plastic Nylon		Grey	Standard	63616	8-29

### 63611 FISCHER Hammerfix type N-Z

N03C

Material	Plastic Nylon (polyamide)
Surface treatment	Zinc plated
Colour	Grey
Packaging	Standard

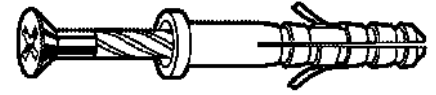
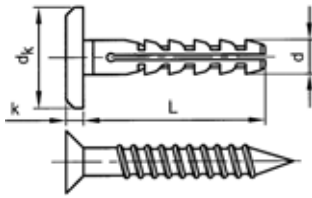


Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
N 5X30MM	100	<a href="#">63611.050.030</a>	N 5X50 WT	100	<a href="#">63611.050.511</a>	N 8X100MM	50	<a href="#">63611.080.100</a>
N 5X30 BR	100	<a href="#">63611.050.031</a>	N 6X40MM	50	<a href="#">63611.060.040</a>	N 8X120MM	50	<a href="#">63611.080.120</a>
N 5X40 BR	100	<a href="#">63611.050.040</a>	N 6X60MM	50	<a href="#">63611.060.060</a>	N 10X100MM	50	<a href="#">63611.100.100</a>
N5X40Z	100	<a href="#">63611.050.041</a>	N 6X80MM	50	<a href="#">63611.060.080</a>	N 10X135MM	50	<a href="#">63611.100.135</a>
N 5X50MM	100	<a href="#">63611.050.050</a>	N 8X60MM	50	<a href="#">63611.080.060</a>	N 10X160MM	50	<a href="#">63611.100.160</a>
N 5X40 WT	100	<a href="#">63611.050.411</a>	N 8X80MM	50	<a href="#">63611.080.080</a>			

<b>63616 FISCHER Hammerfix type N-Z St.st. A2</b>		<b>N03C</b>
<b>Material</b>	Plastic Nylon (polyamide)	 
<b>Colour</b>	Grey	
<b>Packaging</b>	Standard	

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
5X30MM	100	<a href="#">63616.050.030</a>	6X60MM	50	<a href="#">63616.060.060</a>	8X80MM	50	<a href="#">63616.080.080</a>
6X40MM	50	<a href="#">63616.060.040</a>	8X60MM	50	<a href="#">63616.080.060</a>	8X100MM	50	<a href="#">63616.080.100</a>

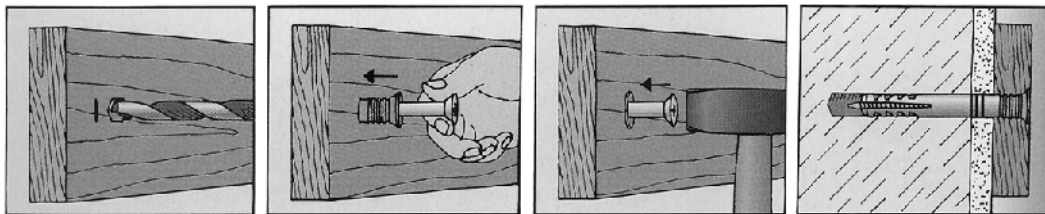
## Hammerfix type N-FZ



### Technical data

Type	N6x40 FZ	N8x40 FZ
d	6	8
L	40	40
dk	13	20
Nail dimension	4x48	5x45
Drill ø	6	8
Drill depth (min.)	55	55
Grip range (max.)	7	0,5
Pull-out force in kN		
Concrete C20/25	1,4	1,9
Brick Mz12	1,2	1,7
Pumice grit V4	0,8	0,9
Sandlime brick KS12	1,2	1,7
Cellular concrete G2	0,25	0,5
Cellular concrete G4	0,65	0,8

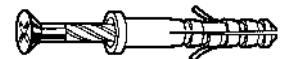
### Assembly sequence



63615 FISCHER Hammerfix type N-FZ

N03C

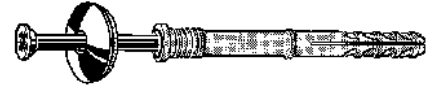
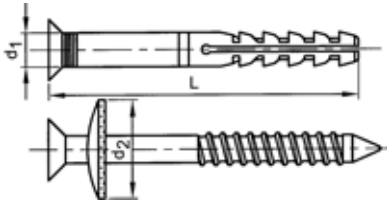
Material Plastic Nylon (polyamide)  
Colour Grey  
Packaging Standard



8

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
N 6X40 FZ	50	<a href="#">63615.060.040</a>						
N 8X40 FZ	50	<a href="#">63615.080.040</a>						

## Hammerfix with isolating washer



### Technical data

Type	N6x40 D	N6x60 D
d <sub>1</sub>	6	6
L	40	60
d <sub>2</sub>	19	19
Nail dimension	4x48	4x64
Drill ø	6	6
Drill depth (min.)	55	75
Grip range (max.)	10	30
Pull-out force in kN		
Concrete C20/25	1,4	1,4
Brick Mz12	1,2	1,2
Pumice grit V4	0,8	0,8
Sandlime brick KS12	1,2	1,2
Cellular concrete G2	0,25	0,25
Cellular concrete G4	0,65	0,65

- Pull-out force in kN.
- It is advised to take a safety factor  $\geq 7$ .

### 63617 FISCHER Hammerfix with isolating washer type N-D

N03C

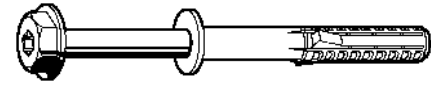
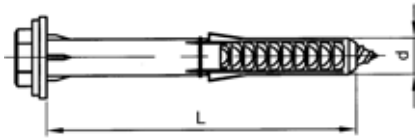
**Material** Plastic Nylon (polyamide)  
**Colour** Grey  
**Packaging** Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6X40MM	50	<a href="#">63617.060.040</a>						
6X60MM	50	<a href="#">63617.060.060</a>						

- With pre-assembled stainless steel A2 nail with Pozidriv (Z) cross recess and with stainless steel A2/elastomer isolating washer.

## Long-shaft fixing

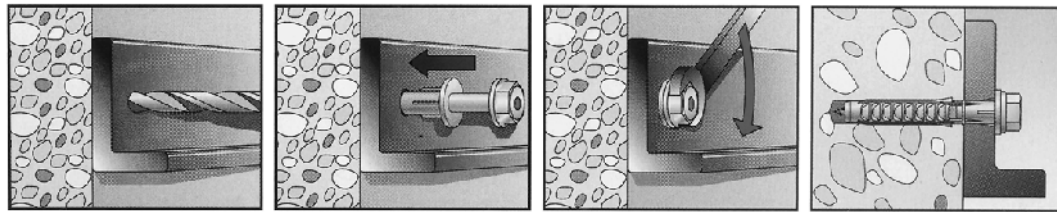


### Technical data

Type	SX 10x80 T	SX 10x100 T	SX 10x140 T	SX 10x160 T	SXS 10x60 F US A4	SXS 10x80 F US A4	SXS 10x100 F US A4	SXS 10x120 F US A4	SXS 10x140 F US A4	SXS 10x160 F US A4	SXS 10x200 SS A4	SXS 10x260 SS A4
d	10	10	10	10	10	10	10	10	10	10	10	10
L	80	100	140	160	60	80	100	120	140	160	200	260
Screw size	7x87	7X107	7X147	7x167	7x69	7x89	7x109	7x129	7x149	7x169	7x207	7x267
Socket	No.40	No.40	No.40	No.40	No.40	No.40	No.40	No.40	No.40	No.40	No.40	No.40
Drill ø	10	10	10	10	10	10	10	10	10	10	10	10
Drill depth (min.)	90	110	150	170	70	90	110	130	150	170	210	270
Grip range (max.)	30	50	90	110	10	30	50	70	90	110	150	210
Allowable load in kN												
Concrete ≥ C12/15	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6	0,8/1,2/ 1,6
Brick ≥ Mz12	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
Sandlime brick ≥ KS12	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
Hollow block ≥ Hbl2	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25

- Load varies with the edge distance, see the approval.
- For further technical data the approval is available on request.

### Assembly sequence



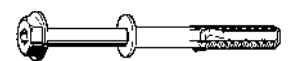
### Article groups

Material	Colour		Packaging	Code	Page
Plastic	Grey	SXS-F US A4	Standard	63174	8-32
Plastic	Grey	SXS-T	Standard	63298	8-33

#### 63174 FISCHER Long-shaft fixing type SXS-F US A4

N03A

Material Plastic  
Colour Grey  
Packaging Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
10X60	50	<a href="#">63174.100.060</a>	10X120	50	<a href="#">63174.100.120</a>			
10X80	50	<a href="#">63174.100.080</a>	10X140	50	<a href="#">63174.100.140</a>			
10X100	50	<a href="#">63174.100.100</a>	10X160	50	<a href="#">63174.100.160</a>			

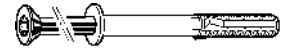
- Fixing with collar ø 18 x 2 mm, with pre-assembled stainless steel A4 hexagon head screw with hexalobular and with integrated washer.



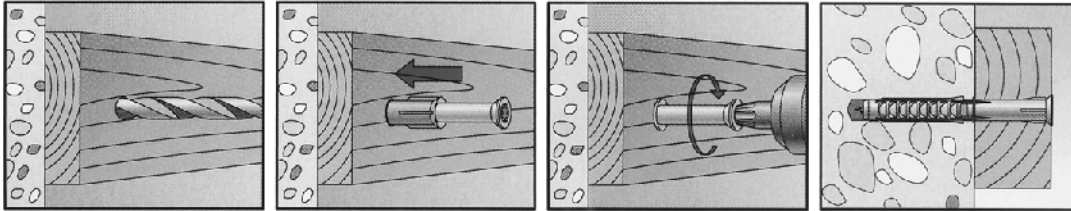
63298 FISCHER Long-shaft fixing type SXS-T

N03A

Material Plastic  
Colour Grey  
Packaging Standard



**Assembly sequence**



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
SXS 10X80T	50	<a href="#">63298.100.080</a>	SXS 10X140T	50	<a href="#">63298.100.140</a>	SXS 10X160T	50	<a href="#">63298.100.160</a>
SXS 10X100T	50	<a href="#">63298.100.100</a>						

- With pre-assembled steel zinc plated countersunk head screw with hexalobular.

## Frame fixing type F-S

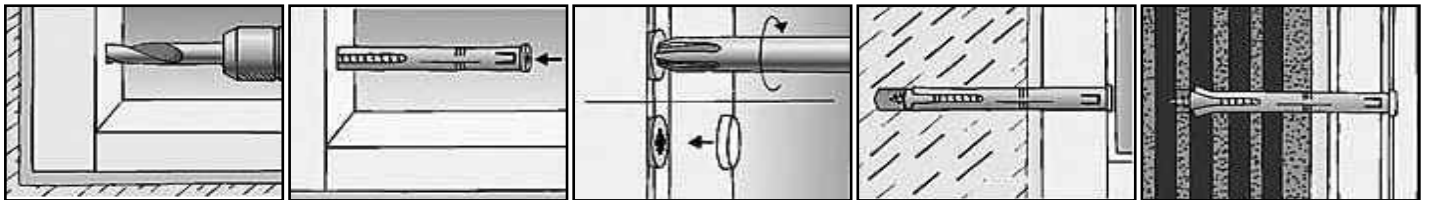


### Technical data

Type	F 10 S 75	F 10 S 100	F 10 S 120	F 10 S 140	F 10 S 165
$d_o$	10	10	10	10	10
L	75	100	120	140	165
Min. $t_d$	90	115	135	155	180
$h_{ef}$	50	50	50	50	50
$t_{fix}$	15	40	60	80	105

- $d_o$  = Nominal diameter of drill bit
- Min.  $t_d$  = Recommended drilling depth
- $h_{ef}$  = Effective anchorage depth
- $t_{fix}$  = Grip range

### Assembly sequence



### 63191 FISCHER Frame fixing type F-S

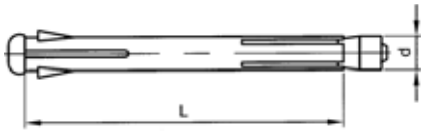
N03A

Material Plastic Nylon (polyamide)  
Colour Grey  
Packaging Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
F 10 S 75	50	<a href="#">63191.100.075</a>	F 10 S 120	50	<a href="#">63191.100.120</a>	F 10 S 165	50	<a href="#">63191.100.165</a>
F 10 S 100	50	<a href="#">63191.100.100</a>	F 10 S 140	50	<a href="#">63191.100.140</a>			

## Frame fixing type F-M

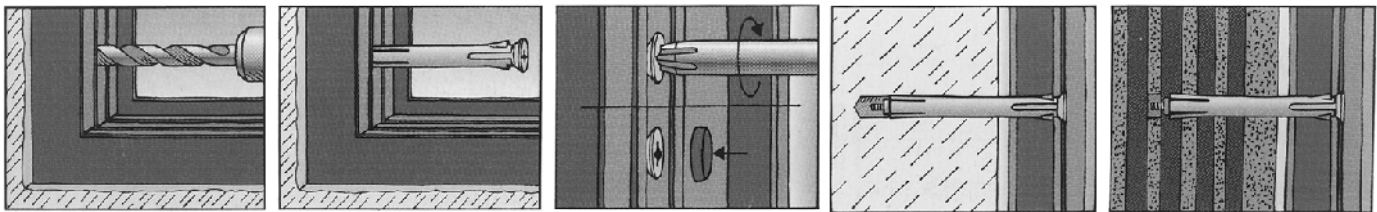


### Technical data

Type	F 8 M 72	F 8 M 92	F 8 M 112	F 8 M 132	F 10 M 72	F 10 M 92	F 10 M 112	F 10 M 132	F 10 M 152	F 10 M 182	F 10 M 202
d	8	8	8	8	10	10	10	10	10	10	10
L	72	92	112	132	72	92	112	132	152	182	202
Drill ø	8	8	8	8	10	10	10	10	10	10	10
Drill depth (min.)	90	110	130	150	90	110	130	150	170	200	220
Grip range (max.)	42	62	82	102	42	62	82	102	122	152	172
Pull-out force in kN											
Concrete ≥ C20/25	-	-	-	-	5,5	5,5	5,5	-	5,5	5,5	5,5
Brick ≥ Mz12	-	-	-	-	5,1	5,1	5,1	5,1	5,1	5,1	5,1
Sandlime brick ≥ KSV12	-	-	-	-	5,1	5,1	5,1	5,1	5,1	5,1	5,1
Pumice grit ≥ V2	-	-	-	-	1,9	1,9	1,9	1,9	1,9	1,9	1,9
Hollow sandlime brick ≥ KSL6	-	-	-	-	2,2	2,2	2,2	2,2	2,2	2,2	2,2

- Fixing sleeve aluminium-zinc coated with steel zinc plated, yellow passivated screw with Pozidriv (Z) cross recessed head.
- It is advised to take a safety factor: 4.

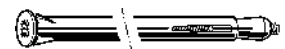
### Assembly sequence



63190 FISCHER Frame fixing type F-M

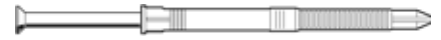
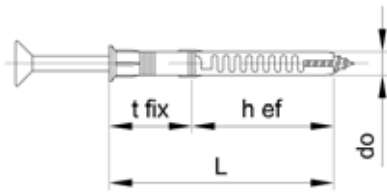
N03A

Material: Steel  
Packaging: Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
F 8 M 72	100	<a href="#">63190.080.072</a>	F 10 M 72	100	<a href="#">63190.100.072</a>	F 10 M 152	100	<a href="#">63190.100.152</a>
F 8 M 92	100	<a href="#">63190.080.092</a>	F 10 M 92	100	<a href="#">63190.100.092</a>	F 10 M 182	50	<a href="#">63190.100.182</a>
F 8 M 112	100	<a href="#">63190.080.112</a>	F 10 M 112	100	<a href="#">63190.100.112</a>	F 10 M 202	50	<a href="#">63190.100.202</a>
F 8 M 132	100	<a href="#">63190.080.132</a>	F 10 M 132	100	<a href="#">63190.100.132</a>			

**Frame fixing type FUR-T**

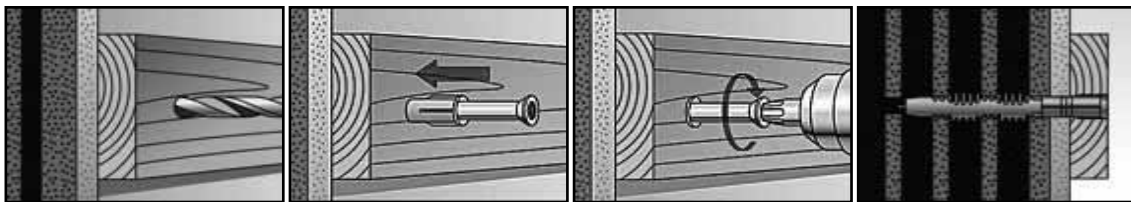


**Technical data**

do x L	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>	Socket
8x100	110	70	30	T30
8x120	130	70	50	T30
10x100	110	70	30	T40
10x115	125	70	45	T40
10x135	145	70	65	T40

- d<sub>o</sub> = Nominal diameter of drill bit
- Min. t<sub>d</sub> = Recommended drilling depth
- h<sub>ef</sub> = Effective anchorage depth
- t<sub>fix</sub> = Grip range

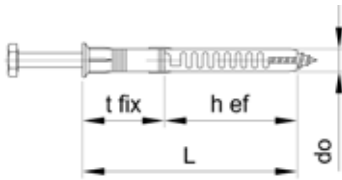
**Assembly sequence**



<b>63195 FISCHER Frame fixing type FUR-T</b>		<b>N03A</b>
<b>Material</b>	Plastic Nylon (polyamide)	 
<b>Colour</b>	Grey	
<b>Packaging</b>	Standard	

Drill ø x L	⊠	Art.number	Drill ø x L	⊠	Art.number	Drill ø x L	⊠	Art.number
8X100MM	50	<a href="#">63195.080.100</a>	10X100MM	50	<a href="#">63195.100.100</a>	10X135MM	50	<a href="#">63195.100.135</a>
8X120MM	50	<a href="#">63195.080.120</a>	10X115MM	50	<a href="#">63195.100.115</a>			

**Frame fixing type FUR-SS**



**Technical data**

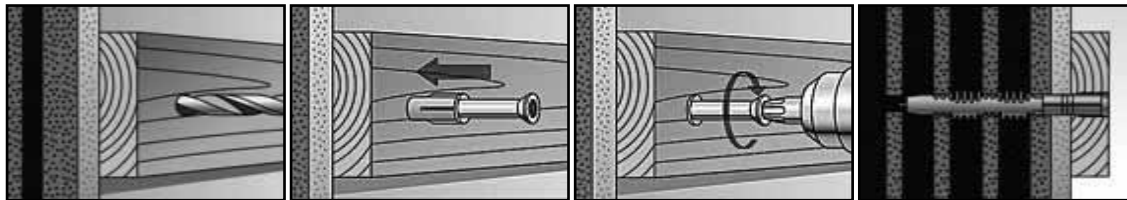
do x L	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>
8x80	90	70	10
8x100	110	70	30
8x120	130	70	50
10x80	90	70	10

do x L	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>
10x100	110	70	30
10x115	125	70	45
10x135	145	70	65
10x160	170	70	90

do x L	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>
10x185	195	70	115
10x200	210	70	130
10x230	240	70	160

- d<sub>0</sub> = Nominal diameter of drill bit
- Min. t<sub>d</sub> = Recommended drilling depth
- h<sub>ef</sub> = Effective anchorage depth
- t<sub>fix</sub> = Grip range

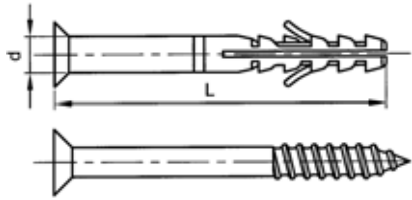
**Assembly sequence**



<b>63196</b>	<b>FISCHER Frame fixing type FUR-SS</b>	<b>N03A</b>
<b>Material</b>	Plastic Nylon (polyamide)	
<b>Colour</b>	Grey	
<b>Packaging</b>	Standard	
		

Drill ø x L	☒	Art.number	Drill ø x L	☒	Art.number	Drill ø x L	☒	Art.number
8X80MM	50	<a href="#">63196.080.080</a>	10X100MM	50	<a href="#">63196.100.100</a>	10X185MM	50	<a href="#">63196.100.185</a>
8X100MM	50	<a href="#">63196.080.100</a>	10X115MM	50	<a href="#">63196.100.115</a>	10X200MM	50	<a href="#">63196.100.200</a>
8X120MM	50	<a href="#">63196.080.120</a>	10X135MM	50	<a href="#">63196.100.135</a>	10X230MM	50	<a href="#">63196.100.230</a>
10X80MM	50	<a href="#">63196.100.080</a>	10X160MM	50	<a href="#">63196.100.160</a>			

## Frame fixing type SXR-T

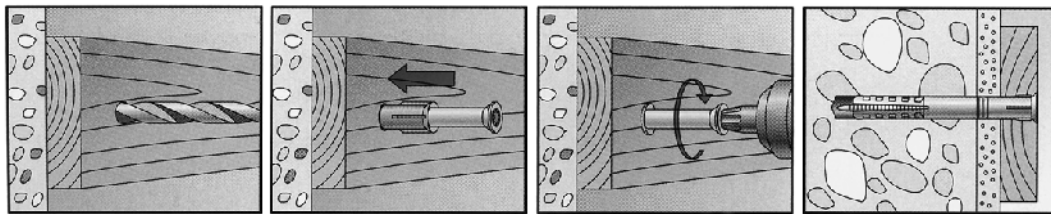


### Technical data

do x L	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>	Socket
80x60	70	50	10	T30
80x80	90	50	30	T30
80x100	110	50	50	T30
80x120	130	50	70	T30
10x80	90	50	30	No.40
10x100	110	50	50	No.40
10x120	130	50	70	No.40
10x140	150	50	90	No.40
10x160	170	50	110	No.40

- d<sub>o</sub> = Nominal diameter of drill bit.
- Min. t<sub>d</sub> = Recommended drilling depth.
- h<sub>ef</sub> = Effective anchorage depth.
- t<sub>fix</sub> = Grip range.

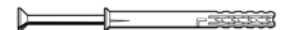
### Assembly sequence



### 63192 FISCHER Frame fixing type SXR-T

N03A

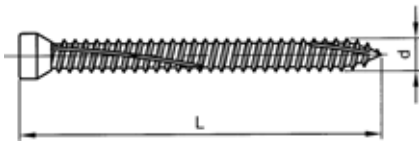
**Material** Plastic Nylon (polyamide)  
**Colour** Grey  
**Packaging** Standard



8

Drill ø x L	☒	Art.number	Drill ø x L	☒	Art.number	Drill ø x L	☒	Art.number
8X60 T	50	<a href="#">63192.080.060</a>	SXR 8X120 T	50	<a href="#">63192.080.120</a>	10X120 T	50	<a href="#">63192.100.120</a>
8X80 T	50	<a href="#">63192.080.080</a>	10X80 T	50	<a href="#">63192.100.080</a>	10X140 T	50	<a href="#">63192.100.140</a>
SXR 8X100 T	50	<a href="#">63192.080.100</a>	10X100 T	50	<a href="#">63192.100.100</a>	10X160 T	50	<a href="#">63192.100.160</a>

## Window frame screw

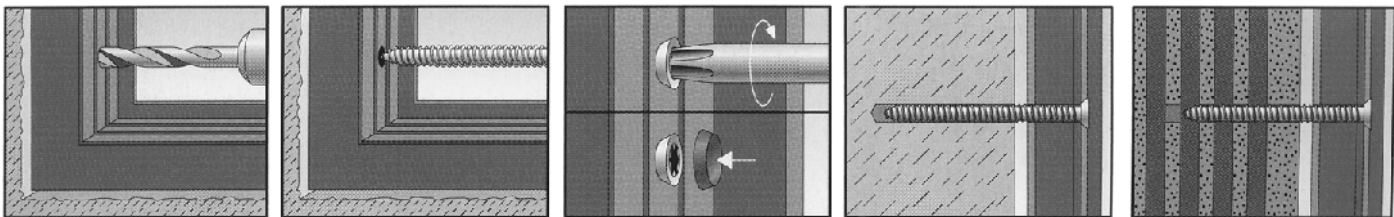


### Technical data

Type	d	L	Drill ø
7,5x72	7,5	72	6
7,5x92	7,5	92	6
7,5x112	7,5	112	6
7,5x132	7,5	132	6
7,5x152	7,5	152	6
7,5x182	7,5	182	6
7,5x212	7,5	212	6

- Suitable for concrete, solid brick, sand lime solid bricks, perforated bricks, sand lime perforated bricks, hollow blocks, solid pumice, aircrete, natural stone etc.

### Assembly sequence



### Article groups

Material	Surface treatment		Packaging	Code	Page
St	Zipl	FFSZ	Standard	63560	8-39
St	Zipl	FFS	Standard	63562	8-39

#### 63560 FISCHER Window frame screw type FFSZ - Head 7,5/TX 25

N03A

Material: Steel  
Surface treatment: Zinc plated  
Packaging: Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FFSZ 7,5X72	100	<a href="#">63560.075.072</a>	FFSZ 7,5X112	100	<a href="#">63560.075.112</a>	FFSZ 7,5X212	100	<a href="#">63560.075.212</a>
FFSZ 7,5X92	100	<a href="#">63560.075.092</a>	FFSZ 7,5X132	100	<a href="#">63560.075.132</a>			

#### 63562 FISCHER Window frame screw type FFS - Head 11,5/TX 30

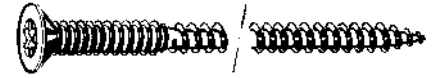
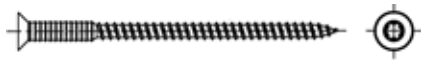
N03A

Material: Steel  
Surface treatment: Zinc plated  
Packaging: Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FFS 7,5X72	100	<a href="#">63562.075.072</a>	FFS 7,5X132	100	<a href="#">63562.075.132</a>	FFS 7,5X212	100	<a href="#">63562.075.212</a>
FFS 7,5X92	100	<a href="#">63562.075.092</a>	FFS 7,5X152	100	<a href="#">63562.075.152</a>			
FFS 7,5X112	100	<a href="#">63562.075.112</a>	FFS 7,5X182	100	<a href="#">63562.075.182</a>			

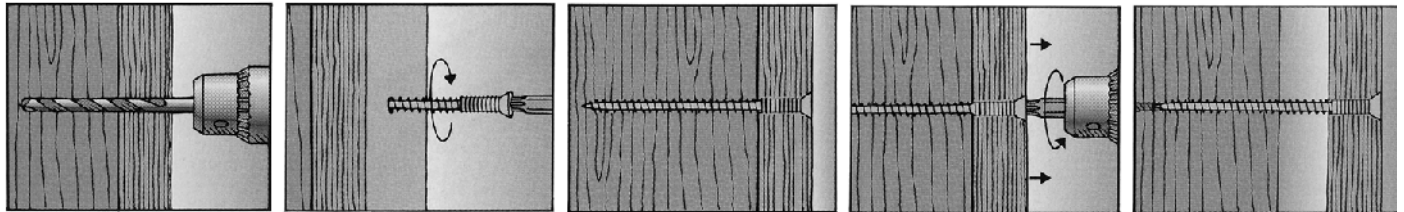
## Adjustable screw



### Technical data

Type	JS 6x110
Socket	No.40
Drill $\phi$	5
Drill depth (min.)	50-110
Assembly depth (min.)	30
Stepless adjustment	0-55
Wood thickness (max.)	25

### Assembly sequence

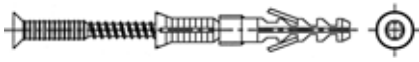


<b>63601</b>	<b>FISCHER Adjustable screw type JS</b>	<b>N03B</b>
Material	Steel	
Surface treatment	Zinc plated	
Packaging	Standard	
		

Type	✉	Art.number	Type	✉	Art.number	Type	✉	Art.number
JS 6X110MM	✉	50		✉	<a href="#">63601.060.110</a>		✉	



## Adjustable fixing

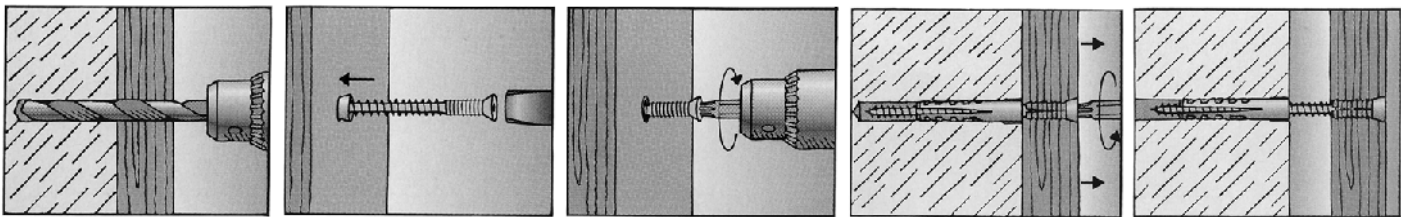



### Technical data

Type	S10J75S
Plug length	75
Socket	No.40
Drill ø	10
Drill depth (min.)	115
Assembly depth (min.)	50
Stepless adjustment	0-30
Wood thickness (max.)	25

- Adjustable fixing type S10J75S for assembly for wood on stone.
- With adjustable screw type JS 6 x 110, steel zinc plated, yellow passivated.

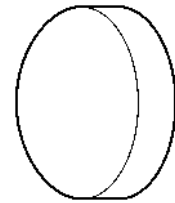
### Assembly sequence



<b>63600 FISCHER Adjustable fixing type S10J75S</b>		<b>N03A</b>	
Material	Plastic Nylon (polyamide)		
Colour	Grey		
Packaging	Standard		

Type	⊗	Art.number	Type	⊗	Art.number	Type	⊗	Art.number
S 10-J 75 S	50	<a href="#">63600.060.110</a>						

**Cover cap for window frame screws**



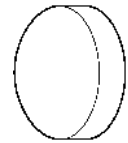
**Technical data**

Type	FSS A-W	FSS A-BR
d	14	14
h	4	4

63590 FISCHER Cover cap for window frame screws type FSS A

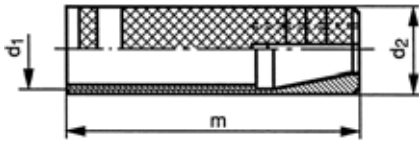
N03A

Material Plastic Polyamide (nylon)  
Class 6  
Packaging Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
WHITE	100	<a href="#">63590.000.011</a>						
DARK BROWN	100	<a href="#">63590.000.019</a>						

## Expanding plug



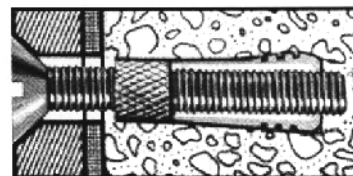
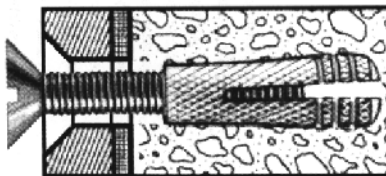
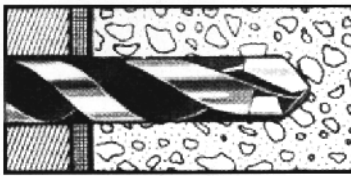
### Technical data

d1	M4	M5	M6	M8	M10	M12
P	0,7	0,8	1	1,25	1,5	1,75
d <sub>2</sub>	5	6	7,5	10	12	15,5
m	16	20	24	30	34	40
Drill ø	5,5	6,5	8	11	13	18
<b>Pull-out force in kN</b>						
Concrete ≥ C20/25	0,25	0,4	0,65	1,1	1,6	2,2
Stone ≥ 15 N/mm <sup>2</sup> (Mz/KS/HSV)	0,2	3,35	0,55	0,9	1,3	1,6

- Drilling depth = fixing part + coating layer + length of plug + 10 mm.
- Length of screw = fixing part + coating layer + length of plug.
- It is advised to take a safetyfactor.

#### Special features of expanding plugs:

- provided with a conical inner side, expanding equally against the wall of the hole during tightening
- application for installation through the fixture hole
- they can be applied in concrete, stone, bricks, tiles and massive wood
- resistant against corrosion
- resistant against temperatures up to 200°C



#### 09610 Expanding plug

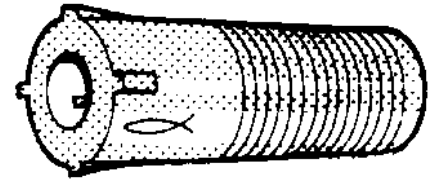
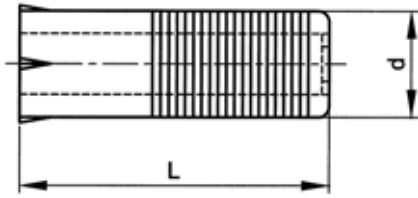
N07A

**Thread** Metric thread  
**Material** Brass  
**Packaging** Standard



d1 x m	☒	Art.number	d1 x m	☒	Art.number	d1 x m	☒	Art.number
M4X16	50	<a href="#">09610.040.016</a>	M6X24	50	<a href="#">09610.060.024</a>	M10X34	25	<a href="#">09610.100.034</a>
M5X20	50	<a href="#">09610.050.020</a>	M8X30	25	<a href="#">09610.080.030</a>	M12X40	25	<a href="#">09610.120.040</a>

## Expansion anchor with brass cone

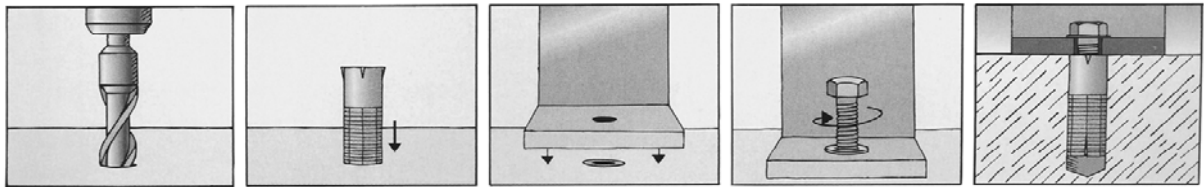


### Technical data

Type	M5	M6	M8	M10	M12	M16
d	10	12	16	20	24	32
L	35	40	50	60	70	90
Drill $\phi$	10	12	16	20	24	32
Drill depth (min.)	45	50	65	80	90	120
Pull-out force in kN	-					
Concrete $\geq$ C20/25	5,5	9	13	22	25	43

- Pull-out force in kN.
- It is advised to take a safety factor  $\geq$  7.

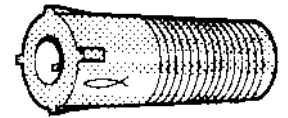
### Assembly sequence



### 63400 FISCHER Expansion anchor with brass cone type M

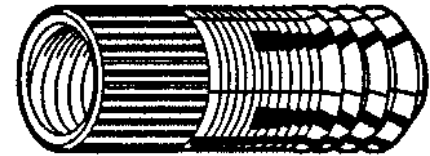
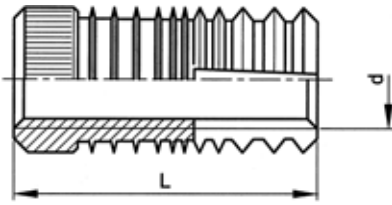
N03B

Thread Metric thread  
Material Glass-fibre reinforced plastic  
Packaging Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M5	50	<a href="#">63400.050.001</a>	M8	20	<a href="#">63400.080.001</a>	M12	5	<a href="#">63400.120.001</a>
M6	50	<a href="#">63400.060.001</a>	M10	10	<a href="#">63400.100.001</a>			

## Anchor

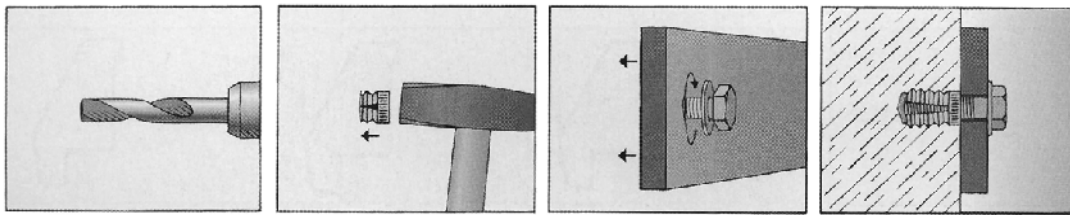


### Technical data

Type	PA 4 M6/7,5	PA 4 M6/13,5	PA 4 M8/25	PA 4 M10/25
d	M6	M6	M8	M10
P	1	1	1,25	1,5
L	7,5	13,5	25	25
Drill ø	8	8	10	12
Drill depth (min.)	7,5	13,5	25	25
Drill ø in construction	7,5	7,5	9,5	11,5
Assembly depth (min.)	7,5	13,5	25	25
<b>Pull-out force in kN</b>				
Chipboard	0,8	1,6	-	-
Pine wood	0,7	1,5	-	-
Beech wood	2	4	-	-
Plastic	3	8	-	-
Brick Mz12	-	3,2	7,8	9,2

- Length of screw min. = length of plug + thickness of fixing part.
- It is advised to take a safety factor:  $\geq 4$ .

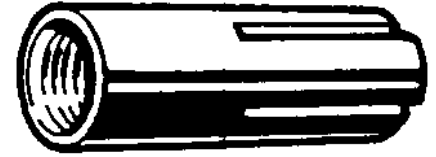
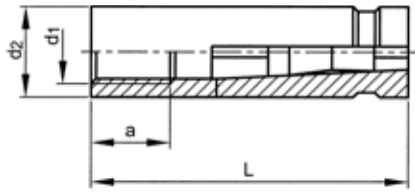
### Assembly sequence



<b>63410 FISCHER Anchor type PA</b>		<b>N03A</b>	
Thread	Metric thread		
Material	Brass		
Packaging	Standard		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
PA4 M6X7,5	200	<a href="#">63410.060.007</a>	PA4 M8X25	50	<a href="#">63410.080.025</a>			
PA4 M6X13,5	100	<a href="#">63410.060.013</a>	PA4 M10X25	25	<a href="#">63410.100.025</a>			

## Female threaded hammer-in anchor SA

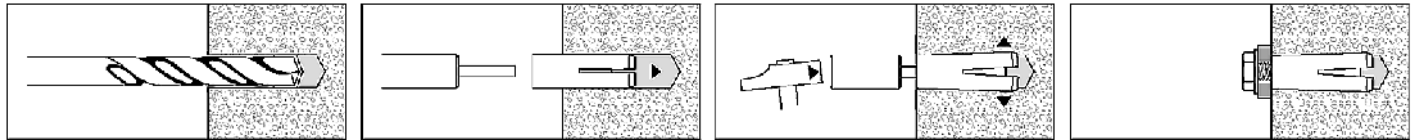


### Technical data

d1	M6	M8	M10	M12	M16
L	30	30	40	50	65
d <sub>2</sub>	8	10	12	15	20
a	13	13	15	18	23
Drill ø	8	10	12	15	20
Drill depth (min.)	32	32	42	53	70
Tightening torque in Nm	4	8	15	35	60
Allowable load in kN					
Concrete ≥ C20/25	1	1,8	3,6	5,7	7,4

- Female threaded hammer-in anchor type GRIP SA can be installed with setting tool type S (see article group 70967).

### Assembly sequence

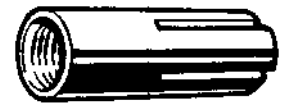


### 70875 SPIT Female threaded hammer-in anchor type SA

P03B

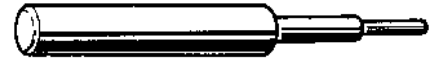
Thread Metric thread  
Material Stainless steel A4  
Packaging Standard

**spit**



d1	☒	Art.number	d1	☒	Art.number	d1	☒	Art.number
M6	100	<a href="#">70875.060.001</a>	M10	50	<a href="#">70875.100.001</a>	M16	25	<a href="#">70875.160.001</a>
M8	100	<a href="#">70875.080.001</a>	M12	50	<a href="#">70875.120.001</a>			

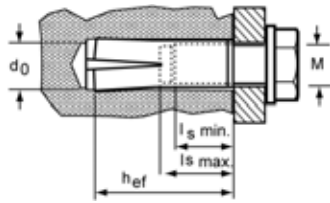
**Setting tool SA**



<b>70967</b>	<b>SPIT Setting tool</b>	<b>P03C</b>
<b>Material</b>	Steel	 
<b>Packaging</b>	Standard	

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
S 6	1	<a href="#">70967.000.006</a>	S 10	1	<a href="#">70967.000.010</a>			
S 8	1	<a href="#">70967.000.008</a>	S 12	1	<a href="#">70967.000.012</a>			

## Hammerset anchor EA II

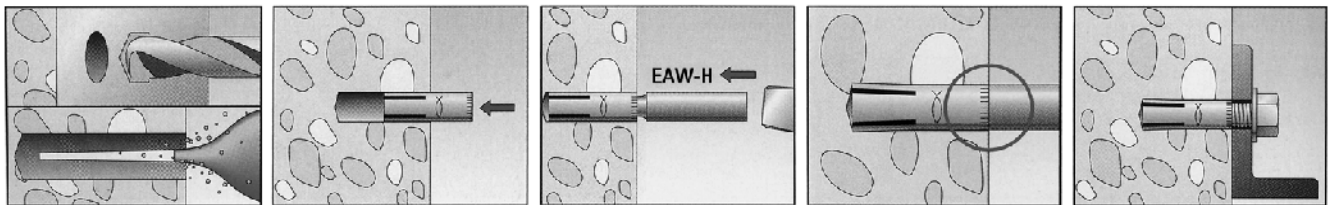


### Technical data

Type	EA II M6	EA II M8	EA II M10	EA II M12	EA II M16	EA II M20
d	M6	M8	M10	M12	M16	M20
L	30	30	40	50	65	80
d <sub>0</sub>	8	10	12	15	20	25
t	32	33	43	54	70	85
h <sub>ef</sub>	30	30	40	50	65	80
l <sub>s min.</sub>	6	8	10	12	16	20
l <sub>s max.</sub>	13	13	17	22	28	34
k <sub>N</sub>	3,9	3,9	6,1	8,5	12,6	17,2

- d<sub>0</sub> = Nominal diameter of drill bit.
- t = Recommended drilling depth.
- h<sub>ef</sub> = Effective anchorage depth.
- l<sub>s min.</sub> = Screw-in depth min.
- l<sub>s max.</sub> = Screw-in depth max.
- k<sub>N</sub> = Load in kN in combination with 8.8 bolts.
- The cone must be installed with setting tool type EAW H (narrow end) into the anchor body (article group 63322).
- Only part of the approval for light suspended ceilings.
- For further technical data the approval is available on request.

### Assembly sequence



### Article groups

Thread	Material	Surface treatment	Packaging	Code	Page
M	St	Zipl	Standard	63320	8-48
M	St.St. A4		Standard	63321	8-49

8

63320 FISCHER Hammerset anchor type EA II		N03A
Thread	Metric thread	
Material	Steel	
Surface treatment	Zinc plated	
Packaging	Standard	
		



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
EA II M6 (EV)	100	<a href="#">63320.060.001</a>	EA II M8 (EV)	100	<a href="#">63320.080.001</a>	EA II M10 (EV)	50	<a href="#">63320.100.001</a>



63320 FISCHER Hammerset anchor type EA II								
Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
EA II M12 (EV)	25	<a href="#">63320.120.001</a>	EA II M16 (EV)	20	<a href="#">63320.160.001</a>			
EA II M12 D (EV)	25	<a href="#">63320.120.005</a>	EA II M20 (EV)	10	<a href="#">63320.200.001</a>			

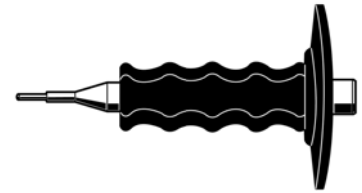
63321 FISCHER Hammerset anchor type EA II			N03A	
Thread	Metric thread			
Material	Stainless steel A4			
Packaging	Standard			
				



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
EA II M6 A4	100	<a href="#">63321.060.001</a>	EA II M10 A4	50	<a href="#">63321.100.001</a>	EA II M16 A4	20	<a href="#">63321.160.001</a>
EA II M8 A4	100	<a href="#">63321.080.001</a>	EA II M12 A4	25	<a href="#">63321.120.001</a>			

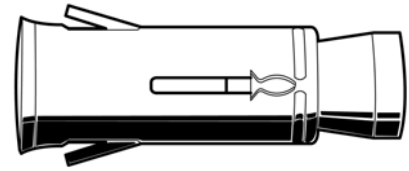
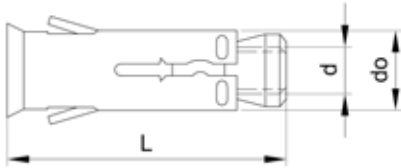
**Setting tool for EA II**



<b>63322 Setting tool for EA II</b>		<b>N03A</b>
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
EAW H 6 PLUS	1	<a href="#">63322.060.001</a>	EAW H 10 PLUS	1	<a href="#">63322.100.001</a>	EAW H 16 PLUS	1	<a href="#">63322.160.001</a>
EAW H 8 PLUS	1	<a href="#">63322.080.001</a>	EAW H 12 PLUS	1	<a href="#">63322.120.001</a>	EAW H 20 PLUS	1	<a href="#">63322.200.001</a>

## Hollow-ceiling anchor type FHY

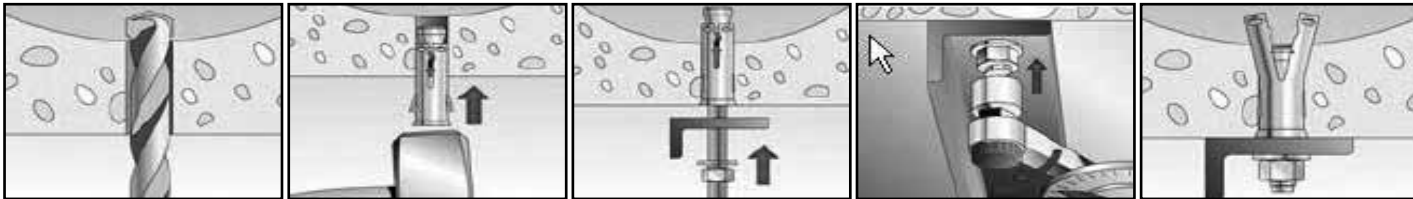


### Technical data

Type / d	FHY M6	FHY M8	FHY M10
$d_o$	10	12	16
L	37	43	52
Min. $t_d$	50	60	65
$h_{ef}$	30	35	40
Structural part thickness (min.)	40mm	40mm	40mm
Allowable load in kN			
Concrete $\geq$ C50/60	1,8	1,8	2,7

- $d_o$  = Nominal diameter of drill bit
- Min.  $t_d$  = Recommended drilling depth
- $h_{ef}$  = Effective anchorage depth

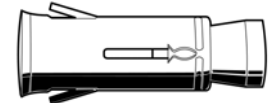
### Assembly sequence



### 63428 FISCHER Hollow-ceiling anchor type FHY

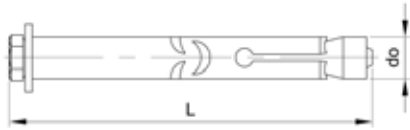
N03A

Thread: Metric thread  
 Material: Steel  
 Surface treatment: Zinc plated  
 Packaging: Standard



Type / d	☒	Art.number	Type / d	☒	Art.number	Type / d	☒	Art.number
FHY M6	50	<a href="#">63428.060.001</a>	FHY M8	25	<a href="#">63428.080.001</a>	FHY M10	20	<a href="#">63428.100.001</a>

## Sleeve anchor FSA-S

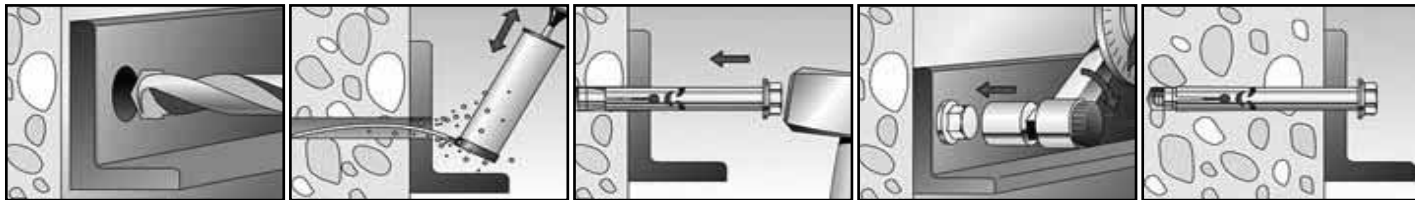


### Technical data

Type	FSA 8/15 S	FSA 8/40 S	FSA 8/65 S	FSA 10/10 S	FSA 10/35 S	FSA 10/60 S	FSA 12/10 S	FSA 12/25 S	FSA 12/50 S
$d_o$	8	8	8	10	10	10	12	12	12
L	59	84	109	60	86	110	70	85	110
$t_{fix}$	15	40	65	10	35	60	10	25	50
$h_{ef}$	35	35	35	40	40	40	50	50	50
Min. $t_d$	65	90	115	65	90	115	75	90	115
Allowable load in kN									
Concrete $\geq$ C20/25	5,2	5,2	5,2	12,9	12,9	12,9	25,7	25,7	25,7

- $d_o$  = Nominal diameter of drill bit
- $t_{fix}$  = Grip range
- $h_{ef}$  = Effective anchorage depth
- Min.  $t_d$  = Recommended drilling depth
- The allowable load is valid for one single anchor, at cracked concrete (tensile zone) with concrete class  $\geq$  C20/25.

### Assembly sequence



### 63226 FISCHER Sleeve anchor FSA-S

N03A

Thread: Metric thread  
 Material: Steel  
 Surface treatment: Zinc plated  
 Packaging: Standard

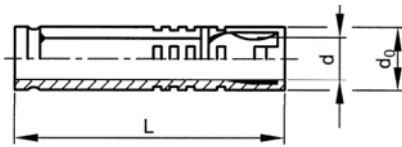


8

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FSA 8/15 S	50	<a href="#">63226.080.015</a>	FSA 10/10 S	20	<a href="#">63226.100.010</a>	FSA 12/10 S	20	<a href="#">63226.120.010</a>
FSA 8/40 S	50	<a href="#">63226.080.040</a>	FSA 10/35 S	20	<a href="#">63226.100.035</a>	FSA 12/25 S	20	<a href="#">63226.120.025</a>
FSA 8/65 S	50	<a href="#">63226.080.065</a>	FSA 10/60 S	20	<a href="#">63226.100.060</a>	FSA 12/50 S	20	<a href="#">63226.120.050</a>

## Expansion shield

NEN =2316



### Technical data

Type	d	L	d <sub>o</sub>	d <sub>d</sub>	d <sub>f</sub>	k <sub>N</sub>
SA06	M6	45	12	60	50	2,3
SA08	M8	50	14	65	50	3,7
SA10	M10	60	16	75	50	5,0
SA12	M12	75	20	70	25	6,7
SA16	M16	115	25	150	10	10,0
M6 (rvs)	M6	40	12	60	50	-
M8 (rvs)	M8	50	14	65	50	-
M10 (rvs)	M10	60	16	75	50	-
M12 (rvs)	M12	80	20	70	25	-

- d<sub>o</sub> = Nominal diameter of drill bit.
- d<sub>d</sub> = Embedment depth.
- d<sub>f</sub> = Anchor diameter.
- k<sub>N</sub> = Load in kN.

### Article groups

Thread	Material	Surface treatment	Packaging	Code	Page
M	St	Zipl	Standard	09015	8-53
M	St.St. A4		Standard	09560	8-53

#### 09015 Expansion shield SA

P01A

<b>Thread</b>	Metric thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X45 (SA)	50	<a href="#">09015.060.045</a>	M10X60 (SA)	50	<a href="#">09015.100.060</a>	M16X115 (SA)	10	<a href="#">09015.160.115</a>
M8X50 (SA)	50	<a href="#">09015.080.050</a>	M12X75 (SA)	25	<a href="#">09015.120.075</a>			

#### 09560 Expansion shield

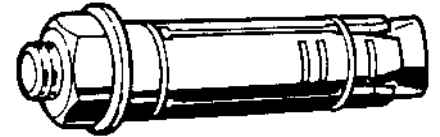
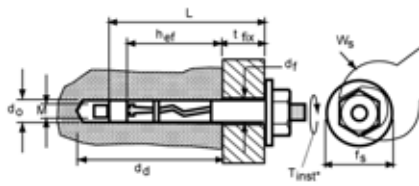
P01A

<b>Thread</b>	Metric thread
<b>Material</b>	Stainless steel A4
<b>Packaging</b>	Standard



d1 x L	☒	Art.number	d1 x L	☒	Art.number	d1 x L	☒	Art.number
M6X40	50	<a href="#">09560.060.040</a>	M10X60	25	<a href="#">09560.100.060</a>			
M8X50	50	<a href="#">09560.080.050</a>	M12X80	10	<a href="#">09560.120.080</a>			

## Expansion shield projecting bolt



### Technical data

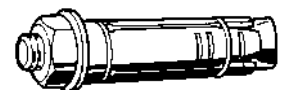
Type	L	d	d <sub>o</sub>	d <sub>d</sub>	d <sub>f</sub>	f <sub>s</sub>	W <sub>s</sub>	h <sub>ef</sub>	t <sub>fix</sub>	k <sub>N</sub>
SAP M6-10	55	M6	12	70	12	14	10	45	10	2,3
SAP M6-25	70	M6	12	85	12	14	10	45	25	2,3
SAP M6-50	95	M6	12	100	12	14	10	45	50	2,3
SAP M8-15	65	M8	14	80	14	21	13	50	15	-
SAP M8-25	75	M8	14	90	14	21	13	50	25	3,7
SAP M8-40	90	M8	14	105	14	21	13	50	40	3,7
SAP M8-80	130	M8	14	145	14	21	13	50	80	3,7
SAP M10-10	60	M10	16	75	16	23,3	17	50	10	5,0
SAP M10-30	90	M10	16	105	16	23,3	17	60	30	5,0
SAP M10-50	110	M10	16	125	16	23,3	17	60	50	5,0
SAP M10-70	130	M10	16	145	16	23,3	17	60	70	5,0
SAP M12-15	90	M12	20	110	20	27,8	19	75	15	6,7
SAP M12-25	100	M12	20	120	20	27,8	19	75	25	6,7
SAP M12-50	125	M12	20	145	20	27,8	19	75	50	6,7
SAP M12-70	145	M12	20	165	20	27,8	19	75	70	6,7
SAP M16-15	130	M16	25	155	25	29,2	24	115	15	10,0
SAP M16-35	150	M16	25	175	25	29,2	24	115	35	10,0

- d<sub>o</sub> = Nominal diameter of drill bit.
- d<sub>d</sub> = Embedment depth .
- d<sub>f</sub> = Anchor diameter.
- f<sub>s</sub> = Head diameter.
- W<sub>s</sub> = Setting tool diameter.
- h<sub>ef</sub> = Effective anchorage depth.
- t<sub>fix</sub> = Grip range.
- k<sub>N</sub> = Allowable load in kN.

### 09030 Expansion shield projecting bolt SAP

P01A

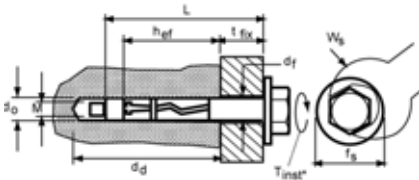
Thread	Metric thread
Material	Steel
Surface treatment	Zinc plated
Packaging	Standard



8

d x dd x tfix	☒	Art.number	d x dd x tfix	☒	Art.number	d x dd x tfix	☒	Art.number
M6X70X10	50	<a href="#">09030.060.701</a>	M10X75X10	50	<a href="#">09030.100.701</a>	M12X145X50	10	<a href="#">09030.124.505</a>
M6X85X25	50	<a href="#">09030.060.802</a>	M10X105X30	50	<a href="#">09030.101.503</a>	M12X165X70	10	<a href="#">09030.126.507</a>
M6X100X50	50	<a href="#">09030.061.005</a>	M10X125X50	25	<a href="#">09030.102.505</a>	M16X155X15	10	<a href="#">09030.165.501</a>
M8X80X15	50	<a href="#">09030.080.801</a>	M10X145X70	25	<a href="#">09030.104.507</a>	M16X175X35	10	<a href="#">09030.167.501</a>
M8X90X25	50	<a href="#">09030.080.902</a>	M12X110X15	25	<a href="#">09030.121.101</a>			
M8X145X80	25	<a href="#">09030.081.458</a>	M12X120X25	25	<a href="#">09030.121.205</a>			
M8X105X40	50	<a href="#">09030.081.504</a>						

## Expansion shield with hexagon head screw



### Technical data

Type	L	d	d <sub>o</sub>	d <sub>d</sub>	d <sub>f</sub>	f <sub>s</sub>	W <sub>s</sub>	h <sub>ef</sub>	t <sub>fix</sub>	k <sub>N</sub>
SAL M6-10	55	M6	12	70	13	14	10	45	10	2,3
SAL M6-25	70	M6	12	85	13	14	10	45	25	2,3
SAL M6-40	85	M6	12	100	13	14	10	45	40	2,3
SAL M8-10	60	M8	14	80	15	21	13	50	10	3,7
SAL M8-25	75	M8	14	90	15	21	13	50	25	3,7
SAL M8-40	90	M8	14	105	15	21	13	50	40	3,7
SAL M10-10	60	M10	16	75	18	24,1	17	50	10	5,0
SAL M10-25	85	M10	16	100	18	24,1	17	60	25	5,0
SAL M10-50	110	M10	16	125	18	24,1	17	60	50	5,0
SAL M10-75	135	M10	16	150	18	24,1	17	60	75	5,0
SAL M12-10	85	M12	20	105	22	29,2	19	75	10	6,7
SAL M12-25	90	M12	20	110	22	29,2	19	75	15	6,7
SAL M12-40	115	M12	20	135	22	29,2	19	75	40	6,7
SAL M12-60	135	M12	20	155	22	29,2	19	75	60	6,7
SAL M16-15	130	M16	25	155	27	29,2	24	115	15	10,0
SAL M16-30	145	M16	25	170	27	29,2	24	115	30	10,0
SAL M16-60	175	M16	25	200	27	29,2	24	115	60	10,0

- d<sub>o</sub> = Nominal diameter of drill bit.
- d<sub>d</sub> = Embedment depth .
- d<sub>f</sub> = Anchor diameter.
- f<sub>s</sub> = Head diameter.
- W<sub>s</sub> = Setting tool diameter.
- h<sub>ef</sub> = Effective anchorage depth.
- t<sub>fix</sub> = Grip range.
- k<sub>N</sub> = Allowable load in kN.

### 09420 Expansion shield with hexagon head screw SAL

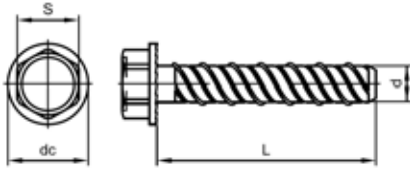
P01A

Thread	Metric thread
Material	Steel
Surface treatment	Zinc plated
Packaging	Standard



d x dd x tfix	☒	Art.number	d x dd x tfix	☒	Art.number	d x dd x tfix	☒	Art.number
M6X70X10	50	<a href="#">09420.060.701</a>	M10X75X10	50	<a href="#">09420.100.701</a>	M12X155X60	25	<a href="#">09420.125.506</a>
M6X85X25	50	<a href="#">09420.060.802</a>	M10X100X25	50	<a href="#">09420.101.002</a>			
M6X100X40	50	<a href="#">09420.061.004</a>	M10X125X50	50	<a href="#">09420.102.505</a>	M16X170X30	10	<a href="#">09420.161.703</a>
			M10X150X75	25	<a href="#">09420.105.007</a>	M16X200X60	10	<a href="#">09420.162.006</a>
M8X80X10	50	<a href="#">09420.080.801</a>	M12X105X10	25	<a href="#">09420.120.501</a>	M16X155X15	10	<a href="#">09420.165.501</a>
M8X90X25	50	<a href="#">09420.080.902</a>						
M8X105X40	50	<a href="#">09420.081.504</a>	M12X110X15	25	<a href="#">09420.121.101</a>			
			M12X135X40	25	<a href="#">09420.123.504</a>			

## Self-tapping screw anchor type BT



### Technical data

Type	d	L	s	d <sub>c</sub>
BT550	5	50	7	12
BT650	6	50	10	12
BT680	6	80	10	12
BT6100	6	100	10	12
BT6120	6	120	10	12
BT6140	6	140	10	12
BT6530	6,5	30	10	13
BT6550	6,5	50	10	13
BT6575	6,5	75	10	13
BT65100	6,5	100	10	13
BT850	8	50	13	16,5
BT875	8	75	13	16,5
BT8100	8	100	13	16,5
BT1060	10	60	17	22
BT1075	10	75	17	22
BT10100	10	100	17	22
BT10110	10	110	17	22
BT10120	10	120	17	22
BT10140	10	140	17	22
BT10160	10	160	17	22
BT10200	10	200	17	22
BT10240	10	200	17	22
BT10280	10	280	17	22
BT10320	10	320	17	22
BT1275	12	75	19	25
BT12100	12	100	19	25
BT12150	12	150	19	25
BT12200	12	200	19	25
BT16100	16	100	24	30
BT16150	16	150	24	30
BT16200	16	200	24	30
BT16240	16	240	24	30
BT16280	16	280	24	30
BT16320	16	320	24	30

8

#### 70520 Self-tapping screw anchor type BT

P05A

<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



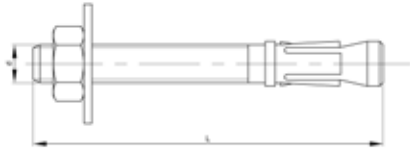
Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
BT 5X50	100	<a href="#">70520.050.050</a>	BT 6X120	100	<a href="#">70520.060.120</a>	BT 8X75	50	<a href="#">70520.080.075</a>
BT 6X50	100	<a href="#">70520.060.050</a>	BT 6X140	50	<a href="#">70520.060.140</a>	BT 8X100	50	<a href="#">70520.080.100</a>
BT 6X80	50	<a href="#">70520.060.080</a>						
BT 6X100	100	<a href="#">70520.060.100</a>	BT 8X50	50	<a href="#">70520.080.050</a>	BT 10X60	50	<a href="#">70520.100.060</a>



70520 Self-tapping screw anchor type BT								
d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
BT 10X75	50	<a href="#">70520.100.075</a>	BT 10X280	20	<a href="#">70520.100.280</a>	BT 16X100	15	<a href="#">70520.160.100</a>
BT 10X100	50	<a href="#">70520.100.100</a>	BT 10X320	20	<a href="#">70520.100.320</a>	BT 16X150	10	<a href="#">70520.160.150</a>
BT 10X110	25	<a href="#">70520.100.110</a>				BT 16X200	10	<a href="#">70520.160.200</a>
BT 10X120	25	<a href="#">70520.100.120</a>	BT 12X75	25	<a href="#">70520.120.075</a>	BT 16X240	10	<a href="#">70520.160.240</a>
BT 10X140	25	<a href="#">70520.100.140</a>	BT 12X100	25	<a href="#">70520.120.100</a>	BT 16X280	10	<a href="#">70520.160.280</a>
BT 10X160	20	<a href="#">70520.100.160</a>	BT 12X150	10	<a href="#">70520.120.150</a>	BT 16X320	10	<a href="#">70520.160.320</a>
BT 10X200	20	<a href="#">70520.100.200</a>	BT 12X200	20	<a href="#">70520.120.200</a>			
BT 10X240	20	<a href="#">70520.100.240</a>						

## Anchor bolt ThruFast - ThruMaxx

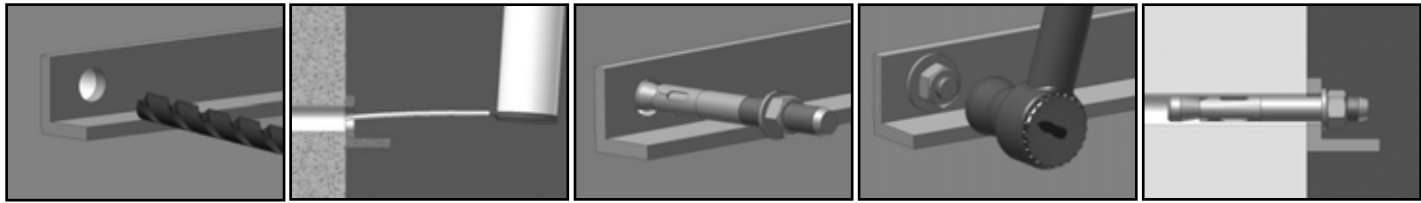


### Technical data

Type	d	L	d <sub>o</sub>	s	Ring ø	d <sub>f</sub>	h <sub>1</sub>	h (nom.)	h <sub>ef</sub>	S <sub>cr, N</sub>	C <sub>cr, N</sub>	t <sub>fix</sub> (max.)	T <sub>inst</sub>	N <sub>rec</sub>
6x60	M6	60	6	10	12	7	55	49,5	40	120	60	2	7	4,29
6x70	M6	70	6	10	12	7	55	49,5	40	120	60	12	7	3,93
6x80	M6	80	6	10	12	7	55	49,5	40	120	60	22	7	3,93
6x80 (A2-A4)	M6	80	6	10	12	7	55	49,5	40	120	60	22	7	4,29
6x90	M6	90	6	10	12	7	55	49,5	40	120	60	32	7	3,93
6x100	M6	100	6	10	12	7	55	49,5	40	120	60	42	7	3,93
6x120	M6	120	6	10	12	7	55	49,5	40	120	60	62	7	3,93
6x140	M6	140	6	10	12	7	55	49,5	40	120	60	82	7	3,93
8x75	M8	75	8	13	16	9	65	59,5	48	144	72	5	20	5,71
8x90	M8	90	8	13	16	9	65	59,5	48	144	72	20	20	5,71
8x115	M8	115	8	13	16	9	65	59,5	48	144	72	45	20	5,71
8x130	M8	130	8	13	16	9	65	59,5	48	144	72	60	20	5,71
8x155	M8	155	8	13	16	9	65	59,5	48	144	72	85	20	5,71
10x70	M10	70	10	17	20	12	60	53,5	42	165	83	5	35	5,43
10x90	M10	90	10	17	20	12	75	66,5	55	165	83	10	35	6,35
10x120	M10	120	10	17	20	12	75	66,5	55	165	83	40	35	6,35
10x150	M10	150	10	17	20	12	75	66,5	55	165	83	70	35	6,35
10x170	M10	170	10	17	20	12	75	66,5	55	165	83	90	35	6,35
12x75	M12	75	12	19	24	14	60	55	43	195	98	5	60	5,64
12x90	M12	90	12	19	24	14	85	77	65	195	98	5	60	8,84
12x110	M12	110	12	19	24	14	85	77	65	195	98	18	60	9,92
12x140	M12	140	12	19	24	14	85	77	65	195	98	48	60	9,92
12x160	M12	160	12	19	24	14	85	77	65	195	98	68	60	9,92
12x180	M12	180	12	19	24	14	85	77	65	195	98	88	60	9,92
14x120	M14	120	14	22	28	16	100	91	75	225	113	12	90	11,91
14x145	M14	145	14	22	28	16	100	91	75	225	113	37	90	11,91
14x170	M14	170	14	22	28	16	100	91	75	225	113	62	90	11,91
16x90	M16	90	16	24	30	18	75	69	49	252	126	4	120	6,86
16x125	M16	125	16	24	30	18	110	103,5	84	252	126	3	120	13,89
16x145	M16	145	16	24	30	18	110	103,5	84	252	126	23	120	13,89
16x170	M16	170	16	24	30	18	110	103,5	84	252	126	48	120	13,89
16x220	M16	220	16	24	30	18	110	103,5	84	252	126	98	120	13,89
20x120	M20	120	20	30	37	22	105	93	71	309	155	5	240	11,96
20x170	M20	170	20	30	37	22	135	125	103	309	155	23	240	19,84
20x220	M20	220	20	30	37	22	135	125	103	309	155	73	240	19,84

- d<sub>o</sub> = Nominal diameter of drill bit
- s = Width across flats
- ring ø = Washer diameter
- d<sub>f</sub> = Diameter of clearance hole in the fixture
- h<sub>1</sub> = Recommended drilling depth
- h(nom) = Minimum hole depth
- h<sub>ef</sub> = Effective anchorage depth
- S<sub>cr, N</sub> = Spacing characteristic
- C<sub>cr, N</sub> = Edge distance characteristic
- t<sub>fix</sub> (max) = Grip range
- T<sub>inst</sub> = Tightening torque in Nm
- N<sub>rec</sub> = Recommended load in kN
- The allowable load is valid for one single anchor, at cracked concrete (tensile zone) with concrete class C20/25, incl. partial safety factor γ<sub>f</sub> = 1,4 and if the S<sub>cr, N</sub> and C<sub>cr, N</sub> are taken in to account.
- When reduction on spacing and edge distance take place a re-calculation of forces should be carried out by making use of the technical guide or calculation software, they are available on request.

### Assembly sequence



### Article groups

Thread	Material	Surface treatment		Packaging	Code	Page
M	St	Zipl		Standard	30550	8-59
M	St.St. A2			Standard	30552	8-59
M	St	Zipl	ETA-7	Standard	30551	8-60
M	St.St. A4		ETA-7	Standard	30553	8-60

#### 30550 MAXXFAST Anchor bolt ThruFast

MF50

<b>Thread</b>	Metric thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard

**MAXXFAST**  
PROFESSIONAL HARDWARE



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6X70	200	<a href="#">30550.060.070</a>	10X70	100	<a href="#">30550.100.070</a>	14X120	25	<a href="#">30550.140.120</a>
6X80	200	<a href="#">30550.060.080</a>	10X90	100	<a href="#">30550.100.090</a>	14X145	25	<a href="#">30550.140.145</a>
6X90	200	<a href="#">30550.060.090</a>	10X120	50	<a href="#">30550.100.120</a>	14X170	20	<a href="#">30550.140.170</a>
6X100	200	<a href="#">30550.060.100</a>	10X150	50	<a href="#">30550.100.150</a>			
6X120	100	<a href="#">30550.060.120</a>				16X125	25	<a href="#">30550.160.125</a>
6X140	100	<a href="#">30550.060.140</a>	12X75	50	<a href="#">30550.120.075</a>	16X145	25	<a href="#">30550.160.145</a>
8X75	100	<a href="#">30550.080.075</a>	12X110	50	<a href="#">30550.120.110</a>	16X170	10	<a href="#">30550.160.170</a>
8X90	100	<a href="#">30550.080.090</a>	12X140	25	<a href="#">30550.120.140</a>	16X220	10	<a href="#">30550.160.220</a>
8X115	100	<a href="#">30550.080.115</a>	12X160	25	<a href="#">30550.120.160</a>			
8X130	100	<a href="#">30550.080.130</a>	12X180	25	<a href="#">30550.120.180</a>	20X170	10	<a href="#">30550.200.170</a>
8X155	50	<a href="#">30550.080.155</a>						

#### 30552 MAXXFAST Anchor bolt ThruFast A2

MF50

<b>Thread</b>	Metric thread
<b>Material</b>	Stainless steel A2
<b>Packaging</b>	Standard

**MAXXFAST**  
PROFESSIONAL HARDWARE



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6X60	200	<a href="#">30552.060.060</a>	10X120	50	<a href="#">30552.100.120</a>	16X145	25	<a href="#">30552.160.145</a>
6X80	200	<a href="#">30552.060.080</a>	10X150	50	<a href="#">30552.100.150</a>	16X170	10	<a href="#">30552.160.170</a>
8X75	100	<a href="#">30552.080.075</a>	12X90	50	<a href="#">30552.120.090</a>	20X120	10	<a href="#">30552.200.120</a>
8X90	100	<a href="#">30552.080.090</a>	12X110	50	<a href="#">30552.120.110</a>	20X170	10	<a href="#">30552.200.170</a>
8X115	100	<a href="#">30552.080.115</a>	12X140	25	<a href="#">30552.120.140</a>	20X220	10	<a href="#">30552.200.220</a>
10X90	100	<a href="#">30552.100.090</a>	16X90	25	<a href="#">30552.160.090</a>			

<b>30551</b>	<b>MAXXFAST Anchor bolt ThruMaxx</b>						<b>MF50</b>
<b>Thread</b>	Metric thread						
<b>Material</b>	Steel						
<b>Surface treatment</b>	Zinc plated						
<b>Packaging</b>	Standard						
							



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6X70	200	<a href="#">30551.060.070</a>	8X155	50	<a href="#">30551.080.155</a>	14X120	25	<a href="#">30551.140.120</a>
6X80	200	<a href="#">30551.060.080</a>				14X145	25	<a href="#">30551.140.145</a>
6X90	200	<a href="#">30551.060.090</a>	10X90	100	<a href="#">30551.100.090</a>	14X170	20	<a href="#">30551.140.170</a>
6X100	200	<a href="#">30551.060.100</a>	10X120	50	<a href="#">30551.100.120</a>			
6X120	100	<a href="#">30551.060.120</a>	10X150	50	<a href="#">30551.100.150</a>	16X125	25	<a href="#">30551.160.125</a>
6X140	100	<a href="#">30551.060.140</a>	10X170	50	<a href="#">30551.100.170</a>	16X145	25	<a href="#">30551.160.145</a>
						16X170	10	<a href="#">30551.160.170</a>
8X75	100	<a href="#">30551.080.075</a>	12X110	50	<a href="#">30551.120.110</a>	20X170	10	<a href="#">30551.200.170</a>
8X90	100	<a href="#">30551.080.090</a>	12X140	25	<a href="#">30551.120.140</a>			
8X115	100	<a href="#">30551.080.115</a>	12X160	25	<a href="#">30551.120.160</a>			
8X130	100	<a href="#">30551.080.130</a>	12X180	25	<a href="#">30551.120.180</a>			

<b>30553</b>	<b>MAXXFAST Anchor bolt ThruMaxx A4</b>						<b>MF50</b>
<b>Thread</b>	Metric thread						
<b>Material</b>	Stainless steel A4						
<b>Packaging</b>	Standard						
							

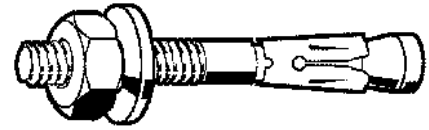
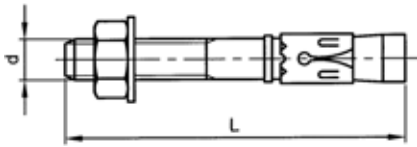


Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

8

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6X60	200	<a href="#">30553.060.060</a>	10X90	100	<a href="#">30553.100.090</a>	12X140	25	<a href="#">30553.120.140</a>
6X80	200	<a href="#">30553.060.080</a>	10X120	50	<a href="#">30553.100.120</a>	16X145	25	<a href="#">30553.160.145</a>
8X75	100	<a href="#">30553.080.075</a>	10X150	50	<a href="#">30553.100.150</a>	16X170	10	<a href="#">30553.160.170</a>
8X90	100	<a href="#">30553.080.090</a>	12X90	50	<a href="#">30553.120.090</a>	20X170	10	<a href="#">30553.200.170</a>
8X115	100	<a href="#">30553.080.115</a>	12X110	50	<a href="#">30553.120.110</a>	20X220	10	<a href="#">30553.200.220</a>

## Through fixing stud anchor type FIX II

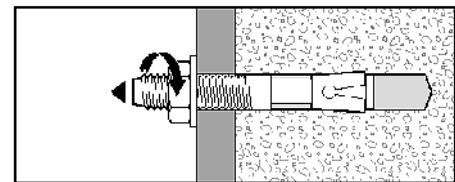
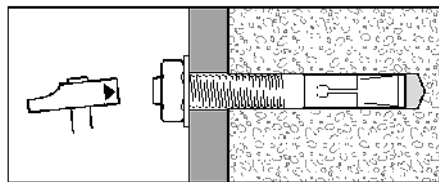
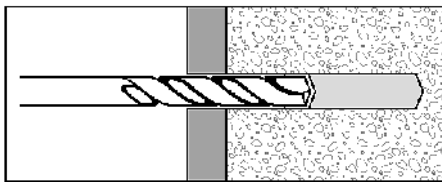




### Technical data

Type	8-20	8-40	8-80	10-15	10-35	10-80	12-25	12-65	12-105	12-145	16-30	16-75	20-50	20-105
<b>d</b>	M8	M8	M8	M10	M10	M10	M12	M12	M12	M12	M16	M16	M20	M20
<b>L</b>	70	90	130	76,2	96,2	141,2	100	140	180	220	125	170	160	215
<b>Code</b>	C	E	H	C	E	I	E	I	L	O	G	K	J	J
<b>d<sub>o</sub></b>	8	8	8	10	10	10	12	12	12	12	16	16	20	20
<b>T<sub>inst</sub></b>	15	15	15	30	30	30	50	50	50	50	100	100	160	160
<b>d<sub>f</sub></b>	9	9	9	12	12	12	14	14	14	14	18	18	22	22
<b>h<sub>min</sub></b>	100	100	100	104-100	104-100	104-100	136-100	136-100	136-100	136-100	172-128	172-128	200-148	200-148
<b>h<sub>o</sub></b>	65-52	65-52	65-52	72-62	72-62	72-62	93-75	93-75	93-75	93-75	117-95	117-95	136-110	136-110
<b>t<sub>fix</sub></b>	7-20	27-40	67-80	5-15	25-35	70-80	8-25	48-65	88-105	128-145	8-30	53-75	25-50	80-105
<b>h<sub>ef</sub></b>	48-35	48-35	48-35	52-42	52-42	52-42	68-50	68-50	68-50	68-50	86-64	86-64	100-74	100-74
<b>S<sub>cr, N</sub></b>	144-155	144-105	144-105	156-125	156-126	156-126	204-150	204-105	204-150	204-150	258-192	258-192	300-222	300-222
<b>C<sub>cr, N</sub></b>	72-55	72-55	72-55	78-75	78-75	78-75	102-100	102-100	102-100	102-100	129-100	129-100	150-115	150-115
<b>S<sub>min.</sub></b>	50-45	50-45	50-45	65-55	65-55	65-55	100-75	100-75	100-75	100-75	100-90	100-90	100-105	100-105
<b>C<sub>min.</sub></b>	60-55	60-55	60-55	75-65	75-65	75-65	100-90	100-90	100-90	100-90	100-105	100-105	115-125	115-125
<b>N</b>	3,0-2,0	3,0-2,0	3,0-2,0	4,0-3,0	4,0-3,0	4,0-3,0	6,6-5,3	6,6-5,3	6,6-5,3	6,6-5,3	13,2-8,3	13,2-8,3	9,9-9,9	9,9-9,9

- **Code** = Letter code marking.
- **d<sub>o</sub>** = Nominal diameter of drill bit.
- **T<sub>inst</sub>** = Tightening torque in Nm.
- **d<sub>f</sub>** = Diameter of clearance hole in the fixture.
- **h<sub>min.</sub>** = Minimal thickness of concrete member.
- **h<sub>o</sub>** = Recommended drilling depth.
- **t<sub>fix</sub>** = Thickness of the fixture.
- **h<sub>ef</sub>** = Effective anchorage depth.
- **S<sub>cr, N</sub>** = Spacing characteristic.
- **C<sub>cr, N</sub>** = Edge distance characteristic.
- **S<sub>min.</sub>** = Minimal spacing.
- **C<sub>min.</sub>** = Minimal edge distance.
- **N** = Allowable load in kN.
- The allowable load is valid for one single anchor, at non-cracked concrete (pressure zone) with concrete class C20/25, incl. partial safety factor  $\gamma_f = 1,4$  and if the  $S_{cr, N}$  and  $C_{cr, N}$  are taken in to account.
- When reduction on spacing and edge distance take place a re-calculation of forces should be carried out by making use of the technical guide or calculation software, they are available on request.
- Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

### Assembly sequence



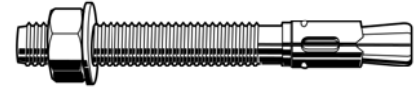
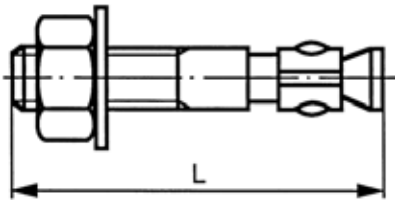
<b>70926</b>	<b>SPIT Through fixing stud anchor type FIX II</b>	<b>P03A</b>
<b>Thread</b>	Metric thread	 
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
8-20	100	<a href="#">70926.080.020</a>	10-80	25	<a href="#">70926.100.080</a>	16-30	25	<a href="#">70926.160.030</a>
8-40	50	<a href="#">70926.080.040</a>	12-25	25	<a href="#">70926.120.025</a>	16-75	10	<a href="#">70926.160.075</a>
8-80	50	<a href="#">70926.080.080</a>	12-65	25	<a href="#">70926.120.065</a>	20-50	10	<a href="#">70926.200.050</a>
10-15	50	<a href="#">70926.100.015</a>	12-105	25	<a href="#">70926.120.105</a>	20-105	10	<a href="#">70926.200.105</a>
10-35	50	<a href="#">70926.100.035</a>	12-145	25	<a href="#">70926.120.145</a>			

## Bolt type FBN II



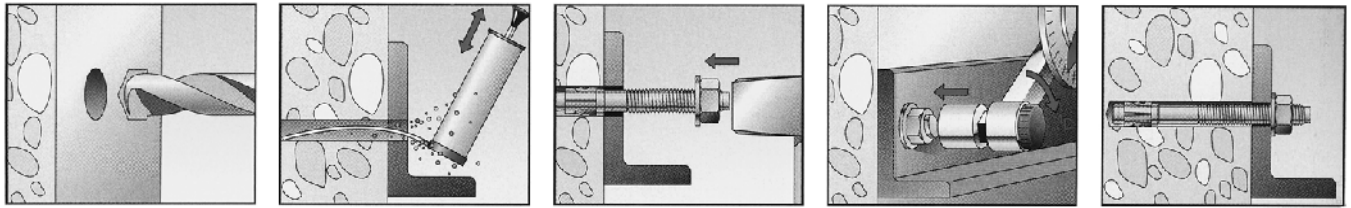
### Technical data

Type	d	L	d <sub>o</sub>	t <sub>fix</sub>	h <sub>ef</sub>	Min. t <sub>d</sub>	Ring ø	k <sub>N</sub>
FBN II 6/5	M6	50	6	5	30	45	12X1,6	1,5
FBN II 6/10	M6	55	6	10	30	50	12X1,6	1,5
FBN II 6/30	M6	75	6	30	30	70	12X1,6	1,5
FBN II 8/5	M8	66	8	5	40	61	16X1,6	2,9-6,1
FBN II 8/10	M8	71	8	10	40	66	16X1,6	2,9-6,1
FBN II 8/20	M8	81	8	20	40	76	16X1,6	2,9-6,1
FBN II 8/30	M8	91	8	30	40	86	16X1,6	2,9-6,1
FBN II 8/50	M8	111	8	50	40	106	16X1,6	2,9-6,1
FBN II 8/70	M8	131	8	70	40	126	16X1,6	2,9-6,1
FBN II 8/100	M8	161	8	100	40	156	16X1,6	2,9-6,1
FBN II 8/5 K	M8	56	8	5	30	51	16X1,6	2,9-6,1
FBN II 8/10 K	M8	61	8	10	30	56	16X1,6	2,9-6,1
FBN II 8/30 K	M8	81	8	30	30	76	16X1,6	2,9-6,1
FBN II 10/10	M10	86	10	10	50	78	20X2	6,1-8,5
FBN II 10/20	M10	96	10	20	50	88	20X2	6,1-8,5
FBN II 10/30	M10	106	10	30	50	98	20X2	6,1-8,5
FBN II 10/50	M10	126	10	50	50	118	20X2	6,1-8,5
FBN II 10/70	M10	146	10	70	50	138	20X2	6,1-8,5
FBN II 10/100	M10	176	10	100	50	168	20X2	6,1-8,5
FBN II 10/140	M10	216	10	140	50	208	20X2	6,1-8,5
FBN II 10/160	M10	236	10	160	50	228	20X2	6,1-8,5
FBN II 10/5 K	M10	71	10	5	40	63	20X2	6,1-8,5
FBN II 10/10 K	M10	76	10	10	40	68	20X2	6,1-8,5
FBN II 10/30 K	M10	96	10	30	40	88	20X2	6,1-8,5
FBN II 12/10	M12	106	12	10	65	95	24X2,5	8,5-12,6
FBN II 12/20	M12	116	12	20	65	105	24X2,5	8,5-12,6
FBN II 12/30	M12	126	12	30	65	115	24X2,5	8,5-12,6
FBN II 12/50	M12	146	12	50	65	135	24X2,5	8,5-12,6
FBN II 12/80	M12	176	12	80	65	165	24X2,5	8,5-12,6
FBN II 12/100	M12	196	12	100	65	185	24X2,5	8,5-12,6
FBN II 12/120	M12	216	12	120	65	205	24X2,5	8,5-12,6
FBN II 12/140	M12	236	12	140	65	225	24X2,5	8,5-12,6
FBN II 12/160	M12	256	12	160	65	245	24X2,5	8,5-12,6
FBN II 12/5 K	M12	86	12	5	50	75	24X2,5	8,5-12,6
FBN II 12/10 K	M12	91	12	10	50	80	24X2,5	8,5-12,6
FBN II 12/30 K	M12	111	12	30	50	100	24X2,5	8,5-12,6
FBN 16/10	M16	130	16	10	80	114	30X3	12,6-17,2
FBN II 16/25	M16	145	16	25	80	129	30X3	12,6-17,2
FBN II 16/50	M16	170	16	50	80	154	30X3	12,6-17,2
FBN II 16/80	M16	200	16	80	80	184	30X3	12,6-17,2
FBN II 16/100	M16	220	16	100	80	204	30X3	12,6-17,2
FBN II 16/140	M16	260	16	140	80	244	30X3	12,6-17,2
FBN II 16/160	M16	280	16	160	80	264	30X3	12,6-17,2
FBN II 16/200	M16	320	16	200	80	304	30X3	12,6-17,2
FBN II 16/15 K	M16	120	16	15	65	104	30X3	12,6-17,2
FBN II 16/25 K	M16	130	16	25	65	114	30X3	12,6-17,2
FBN II 20/30	M20	184	20	30	105	165	37X3	17,2-25,8
FBN II 20/60	M20	214	20	60	105	195	37X3	17,2-25,8
FBN II 20/80	M20	234	20	80	105	215	37X3	17,2-25,8
FBN II 20/120	M20	274	20	120	105	255	37X3	17,2-25,8
FBN II 20/10 K	M20	139	20	10	80	120	37X3	17,2-25,8

- d<sub>o</sub> = Nominal diameter of drill bit.
- t<sub>fix</sub> = Grip range.
- h<sub>ef</sub> = Effective anchorage depth.
- Min. t<sub>d</sub> = Recommended drilling depth.
- k<sub>N</sub> = Load in kN.
- The allowable load is valid for one single anchor, at cracked concrete (tensile zone) with concrete class C20/25, incl. partial safety factor γ<sub>f</sub> = 1,4 and if the S<sub>cr, N</sub> and C<sub>cr, N</sub> are taken in to account.

- When reduction on spacing and edge distance take place a re-calculation of forces should be carried out by making use of the technical guide or calculation software, they are available on request.
- Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

### Assembly sequence



### Article groups

Thread	Material	Surface treatment	Packaging	Code	Page
M	St	Zipl	Standard	63324	8-64
M	St.St. A4		Standard	63325	8-65

63324 FISCHER Bolt type FB II		N03A
<b>Thread</b>	Metric thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	
		



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6/5	100	<a href="#">63324.060.005</a>	10/70 (10X146)	20	<a href="#">63324.100.070</a>	12/10 K (12X91)	20	<a href="#">63324.121.010</a>
6/10	100	<a href="#">63324.060.010</a>	10/100 (10X176)	20	<a href="#">63324.100.100</a>	12/30 K (12X111)	20	<a href="#">63324.121.030</a>
6/30	100	<a href="#">63324.060.030</a>	10/140 (10X216)	20	<a href="#">63324.100.140</a>	16/25 (16X145)	10	<a href="#">63324.160.025</a>
8/5 (8X66)	50	<a href="#">63324.080.005</a>	10/160 (10X236)	20	<a href="#">63324.100.160</a>	16/50 (16X170)	10	<a href="#">63324.160.050</a>
8/10 (8X71)	50	<a href="#">63324.080.010</a>	10/5 K (10X71)	50	<a href="#">63324.101.005</a>	16/80 (16X200)	10	<a href="#">63324.160.080</a>
8/20 (8X81)	50	<a href="#">63324.080.020</a>	10/10 K (10X76)	50	<a href="#">63324.101.010</a>	16/100 (16X220)	10	<a href="#">63324.160.100</a>
8/30 (8X91)	50	<a href="#">63324.080.030</a>	12/10 (12X106)	20	<a href="#">63324.120.010</a>	16/140 (16X260)	10	<a href="#">63324.160.140</a>
8/50 (8X111)	50	<a href="#">63324.080.050</a>	12/20 (12X116)	20	<a href="#">63324.120.020</a>	16/160 (16X280)	10	<a href="#">63324.160.160</a>
8/70 (8X131)	20	<a href="#">63324.080.070</a>	12/30 (12X126)	20	<a href="#">63324.120.030</a>	16/200 (16X320)	10	<a href="#">63324.160.200</a>
8/100 (8X161)	20	<a href="#">63324.080.100</a>	12/50 (12X146)	20	<a href="#">63324.120.050</a>	16/15 K (16X120)	10	<a href="#">63324.161.015</a>
8/5 K (8X56)	50	<a href="#">63324.081.005</a>	12/80 (12X176)	20	<a href="#">63324.120.080</a>	16/25 K (16X130)	10	<a href="#">63324.161.025</a>
8/10 K (8X61)	50	<a href="#">63324.081.010</a>	12/100 (12X196)	20	<a href="#">63324.120.100</a>	20/30 (20X184)	10	<a href="#">63324.200.030</a>
10/10 (10X86)	50	<a href="#">63324.100.010</a>	12/120 (12X216)	20	<a href="#">63324.120.120</a>	20/60 (20X214)	10	<a href="#">63324.200.060</a>
10/20 (10X96)	50	<a href="#">63324.100.020</a>	12/140 (12X236)	20	<a href="#">63324.120.140</a>	20/80 (20X234)	10	<a href="#">63324.200.080</a>
10/30 (10X106)	50	<a href="#">63324.100.030</a>	12/160 (12X256)	20	<a href="#">63324.120.160</a>	20/120 (20X274)	10	<a href="#">63324.200.120</a>
10/50 (10X126)	20	<a href="#">63324.100.050</a>	12/5 K (12X86)	20	<a href="#">63324.121.005</a>	20/10 K (20X139)	10	<a href="#">63324.201.010</a>



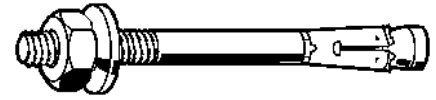
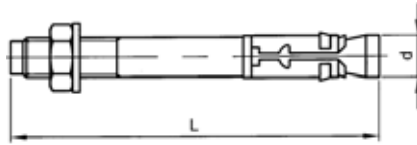
<b>63325 FISCHER Bolt type FB II</b>		<b>N03A</b>	
<b>Thread</b>	Metric thread		
<b>Material</b>	Stainless steel A4		
<b>Packaging</b>	Standard		



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
6/10 (6X55)	100	<a href="#">63325.060.010</a>	10/30 (10X106)	50	<a href="#">63325.100.030</a>	12/100 (12X196)	20	<a href="#">63325.120.100</a>
6/30 (6X75)	100	<a href="#">63325.060.030</a>	10/50 (10X126)	20	<a href="#">63325.100.050</a>	16/10 (16X130)	10	<a href="#">63325.160.010</a>
8/10 (8X71)	50	<a href="#">63325.080.010</a>	10/100 (10X176)	20	<a href="#">63325.100.100</a>	16/25 (16X145)	10	<a href="#">63325.160.025</a>
8/30 (8X91)	50	<a href="#">63325.080.030</a>	12/20 (12X116)	20	<a href="#">63325.120.020</a>	16/50 (16X170)	10	<a href="#">63325.160.050</a>
8/50 (8X111)	50	<a href="#">63325.080.050</a>	12/30 (12X126)	20	<a href="#">63325.120.030</a>			
10/20 (10X96)	50	<a href="#">63325.100.020</a>	12/50 (12X146)	20	<a href="#">63325.120.050</a>			

## Anchor bolt



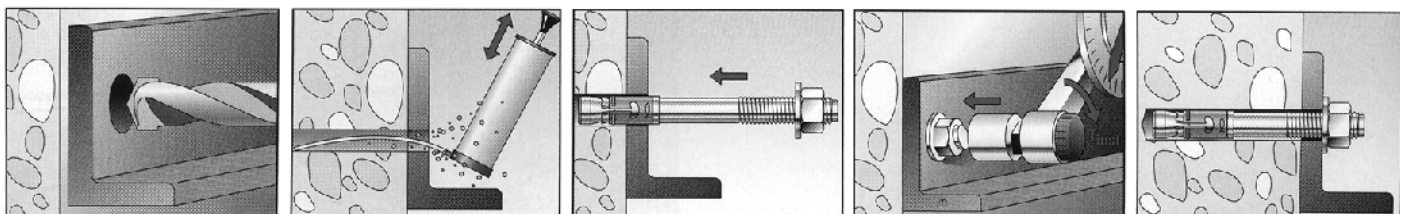
### Technical data

Type	d	L	d <sub>o</sub>	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>	s	Ring ø	k <sub>N</sub>
FAZ II 8/10	M8	77	8	75	45	10	13	16X1,6	2,4
FAZ II 8/30	M8	97	8	95	45	30	13	16X1,6	2,4
FAZ II 8/50	M8	117	8	115	45	50	13	16X1,6	2,4
FAZ II 8/100	M8	167	8	165	45	100	13	16X1,6	2,4
FAZ II 8/150	M8	217	8	215	45	150	13	16X1,6	2,4
FAZ II 10/10	M10	95	10	90	60	10	17	20X2	4,3
FAZ II 10/20	M10	105	10	100	60	20	17	20X2	4,3
FAZ II 10/30	M10	115	10	110	60	30	17	20X2	4,3
FAZ II 10/50	M10	135	10	130	60	50	17	20X2	4,3
FAZ II 10/80	M10	165	10	160	60	80	17	20X2	4,3
FAZ II 10/100	M10	185	10	180	60	100	17	20X2	4,3
FAZ II 10/150	M10	235	10	230	60	150	17	20X2	4,3
FAZ II 12/10	M12	110	12	105	70	10	19	24X2,5	7,6
FAZ II 12/20	M12	120	12	115	70	20	19	24X2,5	7,6
FAZ II 12/30	M12	130	12	125	70	30	19	24X2,5	7,6
FAZ II 12/50	M12	180	12	145	70	50	19	24X2,5	7,6
FAZ II 12/80	M12	180	12	175	70	80	19	24X2,5	7,6
FAZ II 12/100	M12	200	12	195	70	100	19	24X2,5	7,6
FAZ II 12/150	M12	250	12	245	70	150	19	24X2,5	7,6
FAZ II 12/200	M12	300	12	295	70	200	19	24X2,5	7,6
FAZ II 16/25	M16	150	16	140	85	25	24	30X3	13,4
FAZ II 16/50	M16	175	16	165	85	50	24	30X3	13,4
FAZ II 16/100	M16	225	16	215	85	100	24	30X3	13,4
FAZ II 16/150	M16	275	16	265	85	150	24	30X3	13,4
FAZ II 16/200	M16	325	16	315	85	200	24	30X3	13,4
FAZ II 16/250	M16	375	16	365	85	250	24	30X3	13,4
FAZ II 16/300	M16	425	16	415	85	300	24	30X3	13,4
FAZ II 20/30	M20	170	20	155	100	30	30	37X3	17,1
FAZ II 20/60	M20	200	20	185	100	60	30	37X3	17,1
FAZ II 20/150	M20	290	20	275	100	150	30	37X3	17,1
FAZ II 24/30	M24	204	24	185	125	30	36	44X4	24,0
FAZ II 24/60	M24	234	24	215	125	60	36	44X4	24,0

8

- d<sub>o</sub> = Nominal diameter of drill bit.
- Min. t<sub>d</sub> = Recommended drilling depth.
- h<sub>ef</sub> = Effective anchorage depth.
- t<sub>fix</sub> = Grip range.
- s = Width across flats.
- k<sub>N</sub> = Load in kN.
- The allowable load is valid for one single anchor, at cracked concrete (tensile zone) with concrete class C20/25, incl. partial safety factor  $\gamma_f = 1,4$  and if the S<sub>cr</sub>, N and C<sub>cr</sub>, N are taken in to account.
- When reduction on spacing and edge distance take place a re-calculation of forces should be carried out by making use of the technical guide or calculation software, they are available on request.
- Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

### Assembly sequence



<b>63323</b>	<b>FISCHER Anchor bolt type FAZ II</b>	<b>N03A</b>
<b>Thread</b>	Metric thread	 
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FAZII8/10	50	<a href="#">63323.080.010</a>	FAZII10/100	20	<a href="#">63323.100.100</a>	FAZII16/50	10	<a href="#">63323.160.050</a>
FAZII8/30	50	<a href="#">63323.080.030</a>	FAZII12/10	20	<a href="#">63323.120.010</a>	FAZII16/100	10	<a href="#">63323.160.100</a>
FAZII8/50	50	<a href="#">63323.080.050</a>	FAZII12/20	20	<a href="#">63323.120.020</a>	FAZII16/200	10	<a href="#">63323.160.200</a>
FAZII8/100	25	<a href="#">63323.080.100</a>	FAZII12/30	20	<a href="#">63323.120.030</a>	FAZII16/250	10	<a href="#">63323.160.250</a>
FAZII10/10	50	<a href="#">63323.100.010</a>	FAZII12/50	20	<a href="#">63323.120.050</a>	FAZII16/300	10	<a href="#">63323.160.300</a>
FAZII10/20	25	<a href="#">63323.100.020</a>	FAZII12/80	20	<a href="#">63323.120.080</a>	FAZII20/30	5	<a href="#">63323.200.030</a>
FAZII10/30	25	<a href="#">63323.100.030</a>	FAZII12/100	20	<a href="#">63323.120.100</a>	FAZII20/60	5	<a href="#">63323.200.060</a>
FAZII10/50	20	<a href="#">63323.100.050</a>	FAZII12/200	10	<a href="#">63323.120.200</a>	FAZII24/30	5	<a href="#">63323.240.030</a>
FAZII10/80	20	<a href="#">63323.100.080</a>	FAZII16/25	10	<a href="#">63323.160.025</a>	FAZII24/60	5	<a href="#">63323.240.060</a>

## High performance anchor type FH II-B

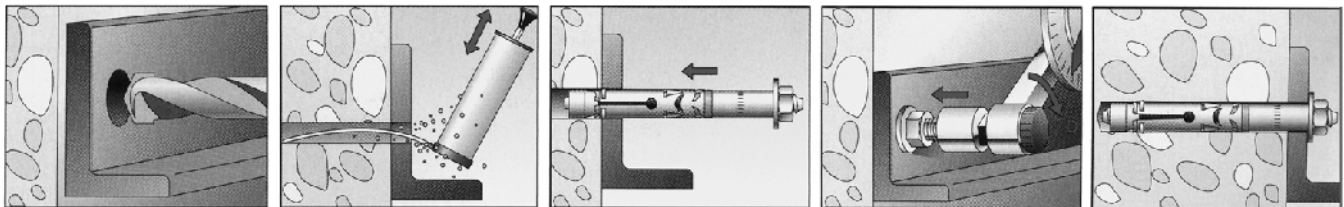


### Technical data

Type	d	L	d <sub>o</sub>	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>	s	Ring ø	k <sub>N</sub>
FH 10/10 B	M6	85	10	80	50	10	10	18X1,6	2,0
FH 10/25 B	M6	100	10	95	50	25	10	18X1,6	2,0
FH 10/50 B	M6	125	10	120	50	50	10	18X1,6	2,0
FH II 12/10 B	M8	90	12	90	60	10	12	22X2,5	5,7
FH II 12/25 B	M8	105	12	105	60	25	13	22X2,5	5,7
FH II 12/50 B	M8	130	12	130	60	50	13	22X2,5	5,7
FH II 12/100 B	M8	184	12	190	60	100	13	22X2,5	5,7
FH II 15/10 B	M10	110	15	100	70	10	17	25X3	7,6
FH II 15/25 B	M10	125	15	115	70	25	17	25X3	7,6
FH II 15/50 B	M10	150	15	140	70	50	17	25X3	7,6
FH II 15/100 B	M10	200	15	190	70	100	17	25X3	7,6
FH II 18/25 B	M12	135	18	130	80	25	19	30X3	11,9
FH II 18/50 B	M12	160	18	155	80	50	19	30X3	11,9
FH II 18/100 B	M12	214	18	205	80	100	19	30X3	11,9
FH II 24/25 B	M16	167	24	150	100	25	24	40X5	17,1
FH II 24/50 B	M16	195	24	175	100	50	24	40X5	17,1
FH II 24/100 B	M16	242	24	225	100	100	24	40X5	17,1

- d<sub>o</sub> = Nominal diameter of drill bit.
- Min. t<sub>d</sub> = Recommended drilling depth.
- h<sub>ef</sub> = Effective anchorage depth.
- t<sub>fix</sub> = Grip range.
- s = Width across flats.
- k<sub>N</sub> = Load in kN.
- The allowable load is valid for one single anchor, at cracked concrete (tensile zone) with concrete class C20/25, incl. partial safety factor γ<sub>f</sub> = 1,4 and if the S<sub>cr</sub>, N and C<sub>cr</sub>, N are taken in to account.
- When reduction on spacing and edge distance take place a re-calculation of forces should be carried out by making use of the technical guide or calculation software, they are available on request.
- Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

### Assembly sequence



<b>63421</b>	<b>FISCHER High performance anchor type FH II-B</b>	<b>N03A</b>
<b>Thread</b>	Metric thread	 
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FH II 12/10 B	50	<a href="#">63421.120.010</a>	FH II 15/25 B	25	<a href="#">63421.150.025</a>	FH II 18/100 B	10	<a href="#">63421.180.100</a>
FH II 12/25 B	50	<a href="#">63421.120.025</a>	FH II 15/50 B	25	<a href="#">63421.150.050</a>	FH II 24/25 B	10	<a href="#">63421.240.025</a>
FH II 12/50 B	25	<a href="#">63421.120.050</a>	FH II 15/100 B	20	<a href="#">63421.150.100</a>	FH II 24/50 B	10	<a href="#">63421.240.050</a>
FH II 12/100 B	25	<a href="#">63421.120.100</a>	FH II 18/25 B	20	<a href="#">63421.180.025</a>	FH II 24/100 B	5	<a href="#">63421.240.100</a>
FH II 15/10 B	25	<a href="#">63421.150.010</a>	FH II 18/50 B	20	<a href="#">63421.180.050</a>			

## High performance anchor type FH II-S

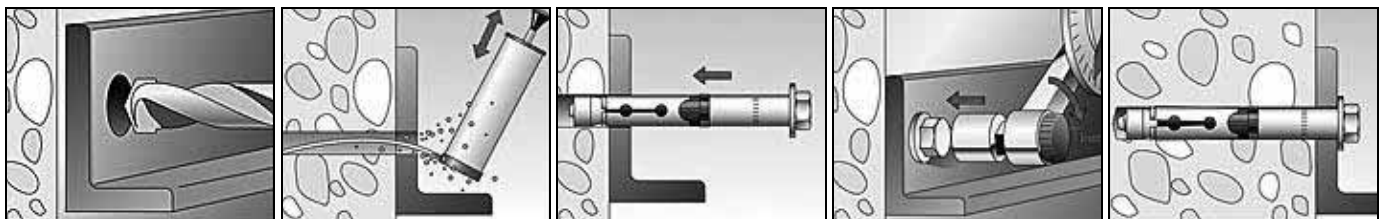


### Technical data

Type	d	L	d <sub>0</sub>	Min. t <sub>d</sub>	h <sub>ef</sub>	t <sub>fix</sub>	s	Ring ø	k <sub>N</sub>
FH 10/10 S	M6	84	10	85	50	10	10	18X1,6	2,0
FH 10/25 S	M6	99	10	100	50	25	10	18X1,6	2,0
FH 10/50 S	M6	124	10	125	50	50	10	18X1,6	2,0
FH II 12/10 S	M8	90	12	90	60	10	13	22X2,5	5,7
FH II 12/25 S	M8	105	12	105	60	25	13	22X2,5	5,7
FH II 12/50 S	M8	130	12	130	60	50	13	22X2,5	5,7
FH II 15/10 S	M10	106	15	100	70	10	17	25X3	7,6
FH II 15/25 S	M10	121	15	115	70	25	17	25X3	7,6
FH II 15/50 S	M10	146	15	140	70	50	17	25X3	7,6
FH II 18/10 S	M12	118	18	115	80	10	19	30X3	11,9
FH II 18/25 S	M12	132	18	130	80	25	19	30X3	11,9
FH II 18/50 S	M12	157	18	155	80	50	19	30X3	11,9
FH II 24/25 S	M16	160	24	150	100	25	24	40X5	17,1
FH II 24/50 S	M16	185	24	175	100	50	24	40X5	17,1

- d<sub>0</sub> = Nominal diameter of drill bit.
- Min. t<sub>d</sub> = Recommended drilling depth.
- h<sub>ef</sub> = Effective anchorage depth.
- t<sub>fix</sub> = Grip range.
- s = Width across flats.
- k<sub>N</sub> = Load in kN.
- The allowable load is valid for one single anchor, at cracked concrete (tensile zone) with concrete class C20/25, incl. partial safety factor  $\gamma_f = 1,4$  and if the S<sub>cr</sub>, N and C<sub>cr</sub>, N are taken in to account.
- When reduction on spacing and edge distance take place a re-calculation of forces should be carried out by making use of the technical guide or calculation software, they are available on request.
- Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

### Assembly sequence



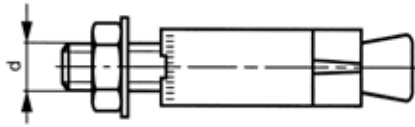
<b>63422</b>	<b>FISCHER High performance anchor type FH II-S</b>	<b>N03A</b>
<b>Thread</b>	Metric thread	 
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FH II 12/10 S	50	<a href="#">63422.120.010</a>	FH II 15/25 S	25	<a href="#">63422.150.025</a>	FH II 18/50 S	20	<a href="#">63422.180.050</a>
FH II 12/25 S	50	<a href="#">63422.120.025</a>	FH II 15/50 S	25	<a href="#">63422.150.050</a>	FH II 24/25 S	10	<a href="#">63422.240.025</a>
FH II 12/50 S	25	<a href="#">63422.120.050</a>	FH II 18/10 S	20	<a href="#">63422.180.010</a>	FH II 24/50 S	10	<a href="#">63422.240.050</a>
FH II 15/10 S	25	<a href="#">63422.150.010</a>	FH II 18/25 S	20	<a href="#">63422.180.025</a>			

## Bolt anchor

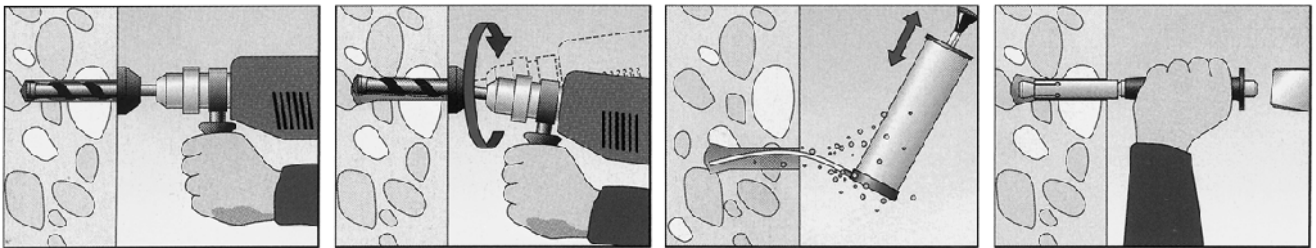


### Technical data

Type	FZA 12x40 M8/15	FZA 12x50 M8/15	FZA 14x40 M10/25	FZA 14x60 M10/25	FZA 18x80 M12/25
d	M8	M8	M10	M10	M12
Drill ø (type FZUB)	12	12	14	14	18
Drill depth	40	50	40	60	80
Grip range (max.)	15	15	25	25	25
<b>Allowable load in kN</b>					
Concrete $\geq$ C20/25	1,94	1,94	2,84	4,24	7,57

- High permissible for assembly in tension zones!
- For further technical data the approval is available on request.

### Assembly sequence



63445 FISCHER-ZYKON Bolt anchor type FZA

N03B

Thread Metric thread  
 Material Steel  
 Surface treatment Zinc plated  
 Packaging Standard



8

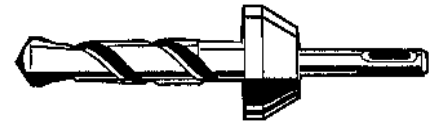


Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FZA 12X40 M8/15	25	<a href="#">63445.120.040</a>	FZA 14X40 M10/25	25	<a href="#">63445.140.040</a>	FZA 18X80 M12/25	10	<a href="#">63445.180.080</a>
FZA 12X50 M8/15	20	<a href="#">63445.120.050</a>	FZA 14X60 M10/25	10	<a href="#">63445.140.060</a>			

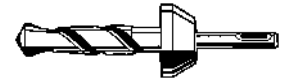


**Bolt anchor installation tool**



**63690 FISCHER-ZYKON Bolt anchor installation tool type FZA** N03A

**Packaging** Standard



Type	✉	Art.number	
FZUB 12X40	1	<a href="#">63690.100.005</a>	<ul style="list-style-type: none"> <li>• Conical, correct drill-hole geometry</li> <li>• Drilling and undercutting in one single operation</li> <li>• With elastic depth stop</li> <li>• SDS-plus drive end</li> </ul>
FZUB 14X40	1	<a href="#">63690.100.010</a>	<ul style="list-style-type: none"> <li>• Conical, correct drill-hole geometry</li> <li>• Drilling and undercutting in one single operation</li> <li>• With elastic depth stop</li> <li>• SDS-plus drive end</li> </ul>
FZUB 12X50	1	<a href="#">63690.100.015</a>	<ul style="list-style-type: none"> <li>• Conical, correct drill-hole geometry</li> <li>• Drilling and undercutting in one single operation</li> <li>• With elastic depth stop</li> <li>• SDS-plus drive end</li> </ul>
FZUB 14X60	1	<a href="#">63690.100.020</a>	<ul style="list-style-type: none"> <li>• Conical, correct drill-hole geometry</li> <li>• Drilling and undercutting in one single operation</li> <li>• With elastic depth stop</li> <li>• SDS-plus drive end</li> </ul>
FZUB 18X80	1	<a href="#">63690.100.025</a>	<ul style="list-style-type: none"> <li>• Conical, correct drill-hole geometry</li> <li>• Drilling and undercutting in one single operation</li> <li>• With elastic depth stop</li> <li>• SDS-plus drive end</li> </ul>

## LIEBIG Anchors



### General

LIEBIG anchors are mechanically expanding fixtures for anchoring in ready concrete of heavy-duty constructions with safe working loads as indicated in the approvals of the "Institute für Bautechnik" (IfBT) in Berlin.

### Types

Three types are available from stock: the LIEBIG safety bolt type B and type S and the LIEBIG anchor type AB with following advantages:

- they are approved (Zulassung of the IfBT) and a periodical quality control is exercised by the "Institut für Massivbau an der T.H. Darmstadt"
- suited for drill-trough and drop-in method by using the recommended drillhole in the construction to be fastened
- after installation immediately fully loadable
- installation control of expansion force by applying the prescribed tightening torque wrench
- increasing load causes forced expansion because the cone is pressed further into the expansion sleeve
- the essential difference between the anchor types is characterised by the way the expansion of the sleeve is realised

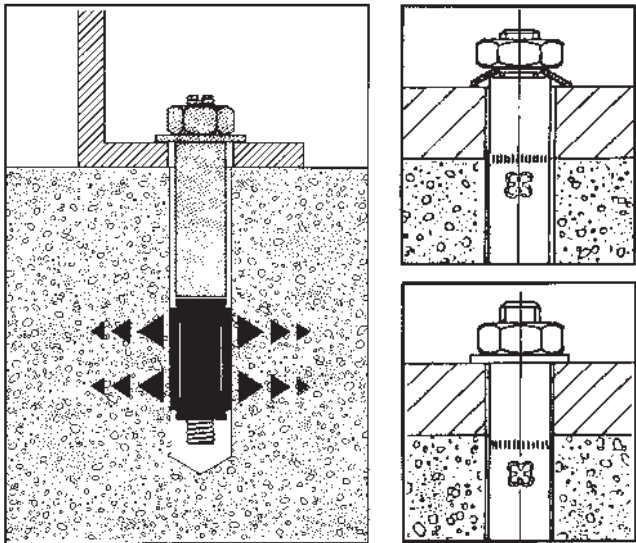
### LIEBIG safety bolt type B and type S

The clamping force against the wall of the hole is realised in a cylindrically expanding way because during tightening the hardened steel sleeve will break at pre-calibrated points via the second cone, pressing the shields with its whole surface parallel against the wall of hole. Through this, high pull-out forces and an even equalisation of pressure are obtained in the concrete. The domed washer will be flattened at the prescribed tightening torque so giving an extra optical control on right installation. The thick walled expansion shields guarantee high expansion reserves and equalize drillhole tolerances. As a consequence of these properties the efficiency of this type is higher than that of a conically expanding anchor. In other words tightening torque and assembly pre-load are converted into an optimal clamping force.

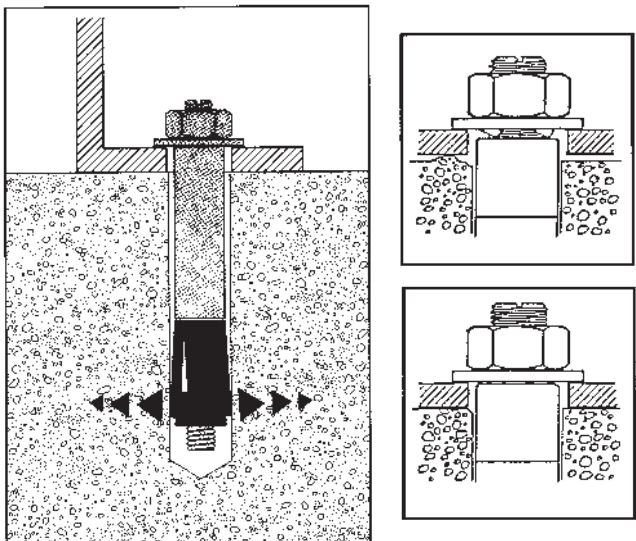
### LIEBIG anchor type AB

Only one cone is pulled into the expansion sleeve giving single conical expansion deep into the hole. The flattening of the feet under the washer guarantees clamping pressure by pulling the material to be fastened tight against the concrete.

### Assembly data



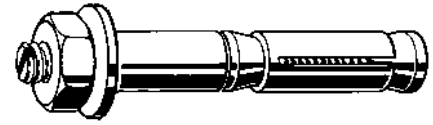
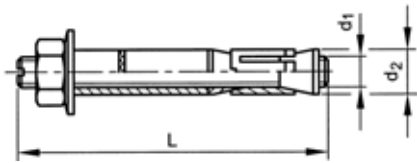
LIEBIG safety bolt type B and type S



LIEBIG anchor type AB

For anchoring DURING casting concrete, see VEMO concrete inserts.

## Safety bolt type B



### Technical data

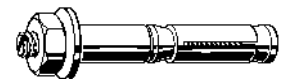
Type	d <sub>1</sub>	L	d <sub>2</sub>	Drill depth (min.)	Drill ø in construction	Grip range (max.)	k <sub>N</sub>
B M6-10/45/5	M6	70	10	60	12	5	2,4
B M6-10/45/15	M6	80	10	60	12	15	2,4
B M6-10/45/40	M6	105	10	60	12	40	2,4
B M8-12/55/5	M8	85	12	70	14	5	3,6
B M8-12/55/15	M8	95	12	70	14	15	3,6
B M8-12/55/40	M8	120	12	70	14	40	3,6
B M8-12/55/65	M8	145	12	70	14	65	3,6
B M8-12/55/100	M8	180	12	70	14	100	3,6
B M10-15/70/5	M10	100	15	85	17	5	7,6
B M10-15/70/15	M10	110	15	85	17	15	7,6
B M10-15/70/40	M10	135	15	85	17	40	7,6
B M10-15/70/65	M10	160	15	85	17	65	7,6
B M10-15/70/100	M10	195	15	85	17	100	7,6
B M10-15/70/140	M10	235	15	85	17	140	7,6
B M12-20/80/5	M12	120	20	100	21	5	12,3
B M12-20/80/15	M12	130	20	100	21	15	12,3
B M12-20/80/40	M12	155	20	100	21	40	12,3
B M12-20/80/65	M12	180	20	100	21	65	12,3
B M12-20/80/100	M12	215	20	100	21	100	12,3
B M12-20/80/140	M12	255	20	100	21	140	12,3
B M16-25/100/5	M16	150	25	125	26	5	17,1
B M16-25/100/15	M16	160	25	125	26	15	17,1
B M16-25/100/40	M16	185	25	125	26	40	17,1
B M16-25/100/65	M16	210	25	125	26	65	17,1
B M16-25/100/100	M16	245	25	125	26	100	17,1
B M20-30/125/15	M20	180	30	150	32	15	18,6
B M20-30/125/40	M20	205	30	150	32	40	18,6
B M20-30/125/65	M20	230	30	150	32	65	18,6
B M20-30/125/100	M20	265	30	150	32	100	18,6

• kN = Allowable load in kN in 20/25.

### 10015 LIEBIG Safety bolt type B

P05A

Thread	Metric thread
Material	Steel
Class	8.8
Surface treatment	Zinc plated
Packaging	Standard



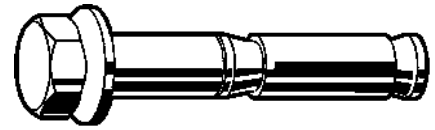
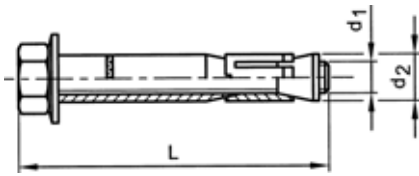
Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	✉	Art.number	Type	✉	Art.number	Type	✉	Art.number
B M6-10/45/5	50	<a href="#">10015.010.005</a>	B M8-12/55/100	25	<a href="#">10015.012.100</a>	B M12-20/80/5	10	<a href="#">10015.020.005</a>
B M6-10/45/15	50	<a href="#">10015.010.015</a>	B M10-15/70/5	25	<a href="#">10015.015.005</a>	B M12-20/80/15	10	<a href="#">10015.020.015</a>
B M6-10/45/40	50	<a href="#">10015.010.040</a>	B M10-15/70/15	25	<a href="#">10015.015.015</a>	B M12-20/80/40	10	<a href="#">10015.020.040</a>
B M8-12/55/5	25	<a href="#">10015.012.005</a>	B M10-15/70/40	10	<a href="#">10015.015.040</a>	B M12-20/80/65	10	<a href="#">10015.020.065</a>
B M8-12/55/15	25	<a href="#">10015.012.015</a>	B M10-15/70/65	10	<a href="#">10015.015.065</a>	B M12-20/80/100	20	<a href="#">10015.020.100</a>
B M8-12/55/40	25	<a href="#">10015.012.040</a>	B M10-15/70/100	25	<a href="#">10015.015.100</a>	B M12-20/80/140	20	<a href="#">10015.020.140</a>
B M8-12/55/65	25	<a href="#">10015.012.065</a>	B M10-15/70/140	25	<a href="#">10015.015.140</a>			

**10015 LIEBIG Safety bolt type B** ←

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
B M16-25/100/5	5	<a href="#">10015.025.005</a>	B M16-25/100/100	10	<a href="#">10015.025.100</a>	B M20-30/125/65	5	<a href="#">10015.030.065</a>
B M16-25/100/15	5	<a href="#">10015.025.015</a>				B M20-30/125/100	5	<a href="#">10015.030.100</a>
B M16-25/100/40	5	<a href="#">10015.025.040</a>	B M20-30/125/15	5	<a href="#">10015.030.015</a>			
B M16-25/100/65	10	<a href="#">10015.025.065</a>	B M20-30/125/40	5	<a href="#">10015.030.040</a>			

## Safety bolt type S



### Technical data

Type	d <sub>1</sub>	L	d <sub>2</sub>	Drill depth (min.)	Drill ø in construction	Grip range (max.)	k <sub>N</sub>
S-M6-10/45/5	M6	70	10	60	12	5	2,4
S-M6-10/45/15	M6	80	10	60	12	15	2,4
S-M6-10/45/40	M6	105	10	60	12	40	2,4
S-M8-12/55/5	M8	80	12	70	14	5	3,6
S-M8-12/55/15	M8	90	12	70	14	15	3,6
S-M8-12/55/40	M8	115	12	70	14	40	3,6
S-M8-12/55/65	M8	140	12	70	14	65	3,6
S-M10-15/70/5	M10	95	15	85	17	5	7,6
S-M10-15/70/15	M10	105	15	85	17	15	7,6
S-M10-15/70/40	M10	130	15	85	17	40	7,6
S-M10-15/70/65	M10	155	15	85	17	65	7,6
S-M12-20/80/5	M12	113	20	100	21	5	12,3
S-M12-20/80/15	M12	123	20	100	21	15	12,3
S-M12-20/80/40	M12	148	20	100	21	40	12,3
S-M12-20/80/65	M12	173	20	100	21	65	12,3
S-M16-25/100/5	M16	145	25	125	26	5	17,1
S-M16-25/100/15	M16	155	25	125	26	15	17,1
S-M16-25/100/40	M16	180	25	125	26	40	17,1
S-M16-25/100/65	M16	205	25	125	26	65	17,1
S-M20-30/125/15	M20	180	30	150	32	15	18,6
S-M20-30/125/40	M20	205	30	150	32	40	18,6

• k<sub>N</sub> = Allowable load in kN in C20/25.

10025 LIEBIG Safety bolt type S		P05A
Thread	Metric thread	
Material	Steel	
Class	8.8	
Surface treatment	Zinc plated	
Packaging	Standard	

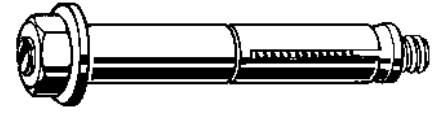
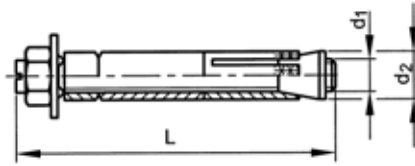





Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
S M6-10/45/5	50	<a href="#">10025.010.005</a>	S M10-15/70/5	25	<a href="#">10025.015.005</a>	S M16-25/100/5	5	<a href="#">10025.025.005</a>
S M6-10/45/15	50	<a href="#">10025.010.015</a>	S M10-15/70/15	25	<a href="#">10025.015.015</a>	S M16-25/100/15	5	<a href="#">10025.025.015</a>
S M6-10/45/40	50	<a href="#">10025.010.045</a>	S M10-15/70/40	10	<a href="#">10025.015.040</a>	S M16-25/100/40	5	<a href="#">10025.025.040</a>
S M8-12/55/5	25	<a href="#">10025.012.005</a>	S M10-15/70/65	10	<a href="#">10025.015.065</a>			
S M8-12/55/15	25	<a href="#">10025.012.015</a>	S M12-20/80/5	10	<a href="#">10025.020.005</a>	S M20-30/125/15	5	<a href="#">10025.030.015</a>
S M8-12/55/40	25	<a href="#">10025.012.040</a>	S M12-20/80/15	10	<a href="#">10025.020.015</a>	S M20-30/125/40	5	<a href="#">10025.030.040</a>
S M8-12/55/65	25	<a href="#">10025.012.065</a>	S M12-20/80/40	10	<a href="#">10025.020.040</a>			
			S M12-20/80/65	10	<a href="#">10025.020.065</a>			

## SK-Anchor



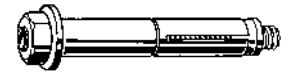
### Technical data

Type	AB10/ 15	AB10/ 40	AB12/ 15	AB12/ 40	AB15/ 15	AB15/ 40	AB20/ 15	AB20/ 40	AB25/ 15	AB25/ 40	AB28/ 10	AB28/ 50	AB30/ 15	AB30/ 40
<b>d<sub>1</sub></b>	M6	M6	M8	M8	M10	M10	M12	M12	M16	M16	M20	M20	M20	M20
<b>d<sub>2</sub></b>	10	10	12	12	15	15	20	20	25	25	28	28	30	30
<b>L</b>	74	99	90	115	105	130	120	145	150	175	150	195	180	205
<b>Drill ø</b>	10	10	12	12	15	15	20	20	25	25	28	28	30	30
<b>Drill depth (min.)</b>	60	60	70	70	85	85	95	95	125	125	150	150	150	150
<b>Drill ø in construction</b>	11	11	13	13	16	16	21	21	26	26	29	29	31	31
<b>Grip range (max.)</b>	15	40	15	40	15	40	15	40	15	40	10	50	15	40
<b>Allowable load in kN</b>														
<b>Concrete C20/25</b>	9,6	9,6	12,9	12,9	21,3	21,3	34,2	34,2	48,6	48,6	66,3	66,3	66,3	66,3

### 10130 LIEBIG SK-Anchor type AB

P05A

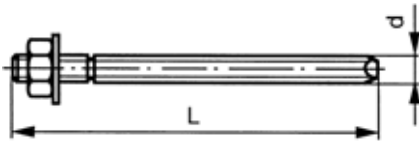
<b>Thread</b>	Metric thread
<b>Material</b>	Stainless steel A4
<b>Class</b>	80
<b>Packaging</b>	Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
AB10/15	50	<a href="#">10130.010.015</a>	AB15/15	25	<a href="#">10130.015.015</a>	AB25/15	5	<a href="#">10130.025.015</a>
AB10/40	50	<a href="#">10130.010.040</a>	AB15/40	10	<a href="#">10130.015.040</a>	AB25/40	5	<a href="#">10130.025.040</a>
AB12/15	25	<a href="#">10130.012.015</a>	AB20/15	10	<a href="#">10130.020.015</a>	AB30/15	5	<a href="#">10130.030.015</a>
AB12/40	25	<a href="#">10130.012.040</a>	AB20/40	10	<a href="#">10130.020.040</a>	AB30/40	5	<a href="#">10130.030.040</a>

- LIEBIG KS-anchors can be used for drill through installation.

## Chemical fixing threaded rod



### Technical data

Type	M8x110	M10x130	M12x160	M12x220	M16x190	M16x220	M20x260
d	M8	M10	M12	M12	M16	M16	M20
L	110	130	160	220	190	220	260
t <sub>fix</sub> (max.)	17	28	36	85	42	67	65
Drill ø	10	12	14	14	18	18	24
Allowable load in kN							
Concrete C20/25	5,9	8,1	11,4	11,4	20	20	30,9

- t<sub>fix</sub> (max.) = Grip range (max.)
- Concrete C20/25; recommended load for non-cracked concrete.
- For VinyMaxx and AcryMaxx resins.

### 30585 MAXXFAST Chemical fixing threaded rod

MF50

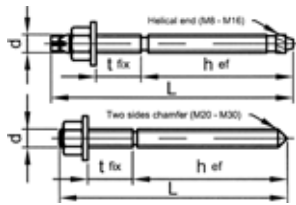
Thread	Metric thread
Material	Steel
Surface treatment	Zinc plated
Packaging	Standard

**MAXXFAST**  
PROFESSIONAL HARDWARE



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M8X110	10	<a href="#">30585.080.110</a>	M12X220	10	<a href="#">30585.120.220</a>	M16X220	10	<a href="#">30585.160.220</a>
M10X130	10	<a href="#">30585.100.130</a>						
M12X160	10	<a href="#">30585.120.160</a>	M16X190	10	<a href="#">30585.160.190</a>	M20X260	6	<a href="#">30585.200.260</a>

## Anchor threaded stud Maxima



### Technical data

Type	M8	M10	M12	M16	M20	M24	M30
D	M8	M10	M12	M16	M20	M24	M30
L	105	128	155	183	260	300	380
Nominal diameter of drill bit ( $d_0$ )	10	12	14	18	25	28	35
Tightening torque in Nm	10	20	30	60	120	200	400
Diameter of clearance hole in the fixture ( $d_f$ )	9	12	14	18	22	26	33
Minimal thickness of concrete member ( $h_{min.}$ )	110	120	150	160	220	300	350
Depth of drilled hole to deepest point ( $h_{omin.}$ - $h_{omax.}$ )	80	90	110	125	170	210	280
Thickness of the fixture ( $t_{fix,max.}$ - $t_{fix,min.}$ )	15	25	30	40	68	64	70
Effective anchorage depth ( $h_{ef,min.}$ - $h_{ef,max.}$ )	80	90	110	125	170	210	280
Spacing ( $S_{cr, N}$ ), characteristic	160	180	220	250	340	420	560
Edge distance ( $C_{cr, N}$ ), characteristic	80	90	110	125	170	210	280
Minimal spacing ( $S_{min.}$ )	40	45	55	65	85	105	140
Minimal edge distance ( $C_{min.}$ )	40	45	55	65	85	105	140
Allowable load in kN	5,3	8,3	13,2	19,8	36,9	38	46,3

- M8 - M16 are supplied including setting tool
- For a complete chemical anchor, the capsule and threaded stud (incl. nut and washer), have to be ordered separately.
- For further technical data the approval is available on request.

### Article groups

Thread	Material	Surface treatment	Packaging	Code	Page
M	St	Zipl	Standard	70636	8-80
M	St.St. A4		Standard	70646	8-80

#### 70636 SPIT Anchor threaded stud Maxima

P03A

Thread	Metric thread
Material	Steel
Surface treatment	Zinc plated
Packaging	Standard



8



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M8	10	<a href="#">70636.080.001</a>	M16	10	<a href="#">70636.160.001</a>	M30	5	<a href="#">70636.300.001</a>
M10	10	<a href="#">70636.100.001</a>	M20	10	<a href="#">70636.200.001</a>			
M12	10	<a href="#">70636.120.001</a>	M24	10	<a href="#">70636.240.001</a>			

#### 70646 SPIT Anchor threaded stud Maxima

P03B

Thread	Metric thread
Material	Stainless steel A4
Packaging	Standard

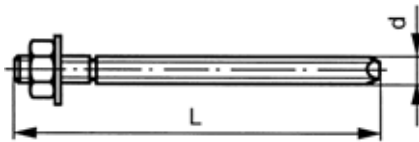


Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M8	10	<a href="#">70646.080.001</a>	M10	10	<a href="#">70646.100.001</a>	M12	10	<a href="#">70646.120.001</a>



70646 SPIT Anchor threaded stud Maxima								
Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M16	10	<a href="#">70646.160.001</a>	M24	10	<a href="#">70646.240.001</a>			
M20	10	<a href="#">70646.200.001</a>	M30	5	<a href="#">70646.300.001</a>			

## Chemical fixing threaded rod



### Technical data

Type	M8x 110	M10x 130	M10x 165	M10x 190	M12x 160	M12x 220	M12x 250	M12x 300	M16x 190	M16x 250	M16x 300	M20x 260	M20x 350	M24x 300	M30x 380
d	M8	M10	M10	M10	M12	M12	M12	M12	M16	M16	M16	M20	M20	M24	M30
L	110	130	165	190	160	220	250	300	190	250	300	260	350	300	380
t <sub>fix</sub> (max.)	13	20	57	82	25	90	120	170	35	98	148	65	155	65	65
Allowable load in kN															
Concrete	6,3	7,9	7,9	7,9	11,9	11,9	11,9	11,9	19,8	19,8	19,8	29,8	29,8	37,7	67,5

- t<sub>fix</sub> (max.) = Grip range (max.)
- Concrete C20/25 to C50/65; recommended load for non-cracked concrete.

### Article groups

Thread	Material	Surface treatment	Packaging	Code	Page
M	St	Zipl	Standard	63187	8-82
M	St.St. A4		Standard	63188	8-82

#### 63187 FISCHER Chemical fixing threaded rod type RG M

**N03B**

<b>Thread</b>	Metric thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M8X110	10	<a href="#">63187.080.110</a>	M12X250	10	<a href="#">63187.120.250</a>	M20X260	10	<a href="#">63187.200.260</a>
M10X130	10	<a href="#">63187.100.130</a>	M12X300	10	<a href="#">63187.120.300</a>	M20X350	10	<a href="#">63187.200.350</a>
M10X165	10	<a href="#">63187.100.165</a>						
M10X190	10	<a href="#">63187.100.190</a>	M16X190	10	<a href="#">63187.160.190</a>	M24X300	10	<a href="#">63187.240.300</a>
			M16X250	10	<a href="#">63187.160.250</a>	M30X380	5	<a href="#">63187.300.380</a>
M12X160	10	<a href="#">63187.120.160</a>	M16X300	10	<a href="#">63187.160.300</a>			
M12X220	10	<a href="#">63187.120.220</a>						

#### 63188 FISCHER Chemical fixing threaded rod type RG M

**N03B**

<b>Thread</b>	Metric thread
<b>Material</b>	Stainless steel A4
<b>Packaging</b>	Standard



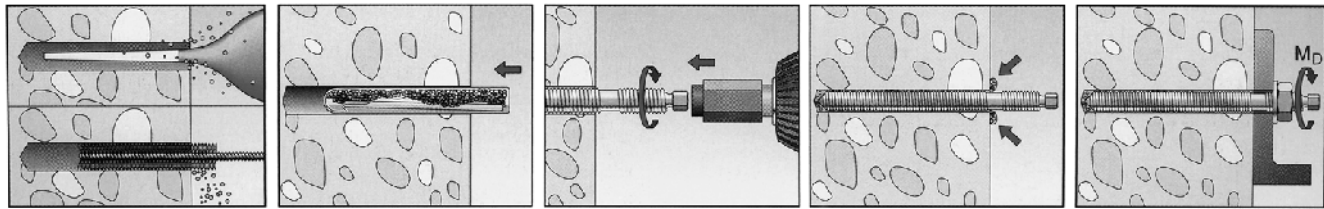
Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M8X110	10	<a href="#">63188.080.110</a>	M12X160	10	<a href="#">63188.120.160</a>	M20X260	10	<a href="#">63188.200.260</a>
M10X130	10	<a href="#">63188.100.130</a>	M16X190	10	<a href="#">63188.160.190</a>	M24X300	10	<a href="#">63188.240.300</a>
M10X165	10	<a href="#">63188.100.165</a>						

## Setting tool



- For a complete chemical fixing, the resin capsule and threaded rod (incl. nut and washer) have to be ordered separately.
- Threaded rod type RG M can be installed with installation tool type M.
- These threaded rods are also suitable for injection system type FIS.
- For further technical data the approval is available on request.

### Assembly sequence



63189 FISCHER Setting tool

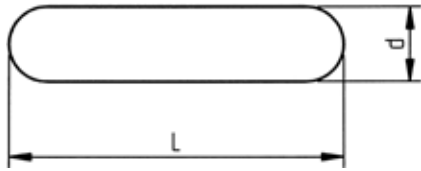
N03B

Packaging Standard



Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M8	1	<a href="#">63189.080.001</a>	M12	1	<a href="#">63189.120.001</a>	M20	1	<a href="#">63189.200.001</a>
M10	1	<a href="#">63189.100.001</a>	M16	1	<a href="#">63189.160.001</a>	M30	1	<a href="#">63189.300.001</a>

## Chemical anchor capsule




### Technical data

Type	d	L	Drill ø	Drill depth (min.)
M8	9	80	10	80
M10	10,5	85	12	90
M12	12,5	95	14	110
M16	16,5	95	18	125
M20	23	160	25	170
M24	23	190	28	210
M30	27,5	260	35	280

- For a complete chemical anchor, the capsule and threaded stud (incl. nut and washer), have to be ordered separately.

### Article groups

Material	Packaging	Code	Page
Glass	Standard	70615	8-84
Glass	Standard	63186	8-85

<b>70615 SPIT Chemical fixing resin capsule type EA</b>		<b>P03A</b>
<b>Material</b>	Glass	
<b>Packaging</b>	Standard	
		



Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

8

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
M8	10	<a href="#">70615.080.001</a>	M16	10	<a href="#">70615.160.001</a>	M30	5	<a href="#">70615.300.001</a>
M10	10	<a href="#">70615.100.001</a>	M20	10	<a href="#">70615.200.001</a>			
M12	10	<a href="#">70615.120.001</a>	M24	10	<a href="#">70615.240.001</a>			

<b>63186</b>	<b>FISCHER Chemical fixing resin capsule type RM</b>	<b>N03A</b>
<b>Material</b>	Glass	
<b>Packaging</b>	Standard	
		



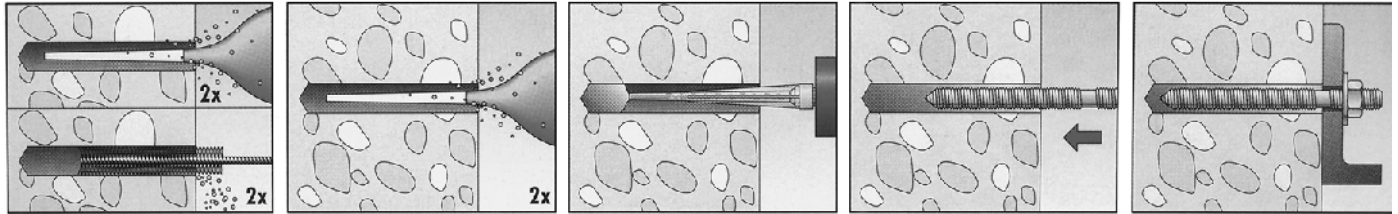
Final calculations should comply with the complete European Technical Approval (ETA), this approval is also available on request.

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
R M8	10	<a href="#">63186.080.001</a>	R M16	10	<a href="#">63186.160.001</a>	R M30	5	<a href="#">63186.300.001</a>
R M10	10	<a href="#">63186.100.001</a>	R M20	10	<a href="#">63186.200.001</a>			
R M12	10	<a href="#">63186.120.001</a>	R M24	5	<a href="#">63186.240.001</a>			

## Injection cartridge



### Assembly data



### Article groups

	Packaging	Code	Page
AcryMaxx	Standard	30580	8-86
VinyMaxx	Standard	30581	8-86
FIS VS	Standard	63252	8-87
FIS V	Standard	63051	8-87
FIS VS	Standard	63060	8-87

**30580 MAXXFAST Injection cartridge** MF50

Packaging: Standard




Type	Art.number	
AcryMaxx	1 <a href="#">30580.000.310</a>	<ul style="list-style-type: none"> <li>• High performance two component styrene free resin for anchoring threaded rod and internally threaded sockets in concrete.</li> <li>• European Technical Approval and CE marking.</li> <li>• Resistant to extreme temperatures (from -40°C to +80°C) after polymerisation.</li> <li>• 310 ml.</li> </ul>

**30581 MAXXFAST Injection cartridge** MF50



Packaging: Standard




Type	Art.number	
VinyMaxx	1 <a href="#">30581.000.310</a>	<ul style="list-style-type: none"> <li>• Styrene free high performance resin for solid and hollow substrates.</li> <li>• 310 ml.</li> </ul>

**63252 FISCHER Injection cartridge** N03A

Packaging Standard


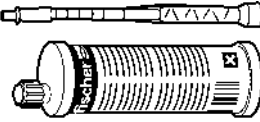



✉ [Art.number](#)

FIS VS 300 T	1	<a href="#">63252.000.300</a>	<ul style="list-style-type: none"> <li>• High performance hybrid mortar for high loads in almost all building materials.</li> <li>• Universal mounting system for a wide range of applications on site.</li> <li>• Expansion-free anchoring allows low spacing and edge distances.</li> <li>• Extensive range of accessories for a wide variety of applications.</li> <li>• The use of standard caulking gun is economically advantageous.</li> </ul>
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**63051 FISCHER Injection cartridge** N03A

Packaging Standard






Type ✉ [Art.number](#)

V360S=FIS	1	<a href="#">63051.000.360</a>	<ul style="list-style-type: none"> <li>• Incl. 2 static mixers</li> <li>• Contents 360 ml</li> <li>• Expansion-free anchoring with an optimal price/quality relation</li> <li>• High-strength rapid-setting 2-component synthetic resin mortar</li> <li>• Open cartridges can be used repeatedly</li> <li>• Easy application with injection pistol, see article group 63691</li> <li>• No separate mixing required</li> <li>• Incl. 2 static mixers</li> <li>• Contents 380 ml</li> </ul>
VT380C=FIS	1	<a href="#">63051.000.380</a>	

**63060 FISCHER Injection cartridge** N03A

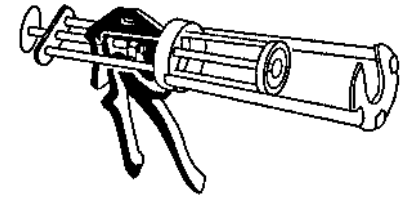
Packaging Standard

Type ✉ [Art.number](#)

VS150C	1	<a href="#">63060.000.150</a>	<ul style="list-style-type: none"> <li>• Expansion-free chemical anchoring system for professional and semi-professional applications</li> <li>• Styrene free hybrid resin mortar</li> <li>• The 2 components are safely mixed together inside the static mixer</li> <li>• A simple exchange of the static mixer allows the renewed use of cartridges after they have been opened</li> <li>• Requires low application pressure for economical use</li> <li>• Incl. ejection plunger and 2 static mixers</li> <li>• Contents 145 ml</li> <li>• Can be extruded from the cartridge with conventional sealant pistols</li> </ul>
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**Injection tool**



**30595 MAXXFAST Injection tool MF50**

Packaging Standard

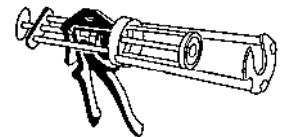


Type [Art.number](#)

Gun 1 [30595.000.100](#) • For VinyMaxx and AcryMaxx resins.

**63691 FISCHER Injection tool N03C**

Packaging Standard



Type [Art.number](#)

K FIS VT 1 [63691.100.020](#) • Suitable for injection cartridge type FIS VT 380 C

**63247 FISCHER Injection tool N03A**

Packaging Standard



Type [Art.number](#)

Static mixer 10 [63247.000.005](#) • Suitable for injection cartridge type FIS V  
• Plastic

8

**63242 FISCHER Injection tool N03A**

Packaging Standard



Type [Art.number](#)

FIS AK 1 [63242.000.005](#) • Suitable for injection cartridge type FIS V 360 S and FIS VS 150 C.

**63243 FISCHER Injection tool N03A**

Packaging Standard

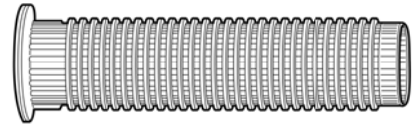


Type [Art.number](#) Type [Art.number](#) Type [Art.number](#)

14/20 MM 1 [63243.014.020](#)



## Anchoring accessories



### Technical data

Type	12x50	15x85	15x130	20x85
d <sub>o</sub>	12	15	15	20
L	50	85	130	85
Drill ø	12	15	15	20
Drill depth (min.)	60	95	140	95
Assembly depth (min.)	50	85	130	85
Threaded rod size	M6	M8-M10-M12	M8-M10-M12	M12-M16








### 30596 MAXXFAST Anchoring accessories

MF50

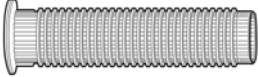

Packaging Standard

**MAXXFAST**  
PROFESSIONAL HARDWARE

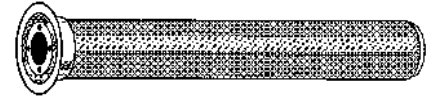


Type	☒	Art.number		
BLOW PUMP	1	<a href="#">30596.000.001</a>	• Plastic	
MIXING NOZZLE	5	<a href="#">30596.000.005</a>	• Plastic	
BRUSH WHITE	1	<a href="#">30596.008.012</a>	• 8-12mm	
BRUSH BLUE	1	<a href="#">30596.010.018</a>	• 10-18mm	
BRUSH RED	1	<a href="#">30596.012.028</a>	• 12-28mm	
ANCHOR SLEEVE	10	<a href="#">30596.012.050</a>	• Plastic Nylon (polyamide) • 12x50	
ANCHOR SLEEVE	10	<a href="#">30596.015.085</a>	• Plastic Nylon (polyamide) • 15x85	

**30596 MAXXFAST Anchoring accessories**

Type	Art.number	Type	Art.number
ANCHOR SLEEVE	10 <a href="#">30596.015.130</a>	<ul style="list-style-type: none"> <li>• Plastic Nylon (polyamide)</li> <li>• 15x130</li> </ul> 	
ANCHOR SLEEVE	10 <a href="#">30596.020.085</a>	<ul style="list-style-type: none"> <li>• Plastic Nylon (polyamide)</li> <li>• 20x85</li> </ul> 	

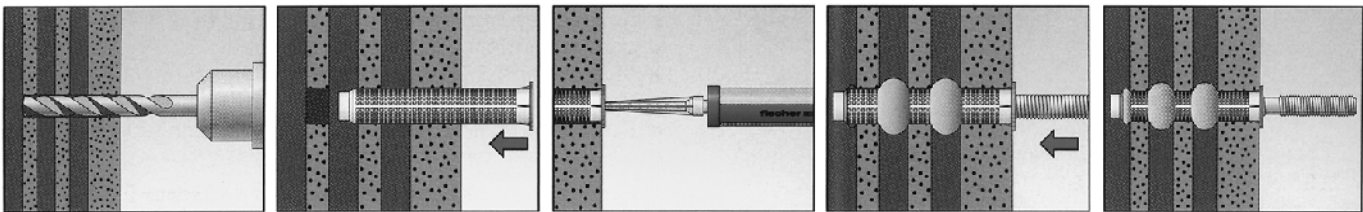
**Injection system injection anchor sleeve**



**Technical data**

Type	FIS H16 x 85N	FIS H18 x 85N	FIS H20 x 85N	FIS H12 X 1000	FIS H16 X 1000	FIS H22 X 1000
d	16	18	20	12	16	22
L	85	85	85	1000	1000	1000
Drill ø	16	18	20	12	16	22
Drill depth (min.)	95	95	95	-	-	-
Assembly depth (min.)	85	85	85	-	-	-
Threaded rod size	M8	M10	M12	M6-M8	M10-M12	M12-M16

**Assembly sequence**



**Article groups**

Material	Surface treatment	Packaging	Code	Page
Plastic PA		Standard	63052	8-91
St	Zipl	Standard	63050	8-91

**63052 FISCHER Injection system injection anchor sleeve type FIS H N** N03A



Material: Plastic Polyamide (nylon)  
Packaging: Standard




Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
FIS16X85MM	20	<a href="#">63052.160.085</a>	FIS18X85MM	20	<a href="#">63052.180.085</a>	FIS20X85MM	20	<a href="#">63052.200.085</a>

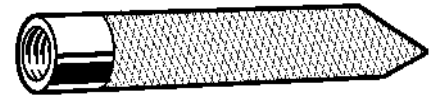
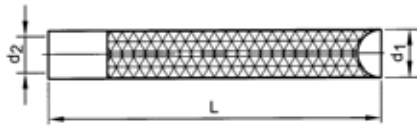
**63050 FISCHER Injection system injection anchor sleeve type FIS H L** N03A

Material: Steel  
Surface treatment: Zinc plated  
Packaging: Standard

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
12X1000MM	10	<a href="#">63050.120.001</a>	16X1000MM	10	<a href="#">63050.160.001</a>	22X1000MM	6	<a href="#">63050.220.001</a>

## Chemical fixing internal threaded anchor

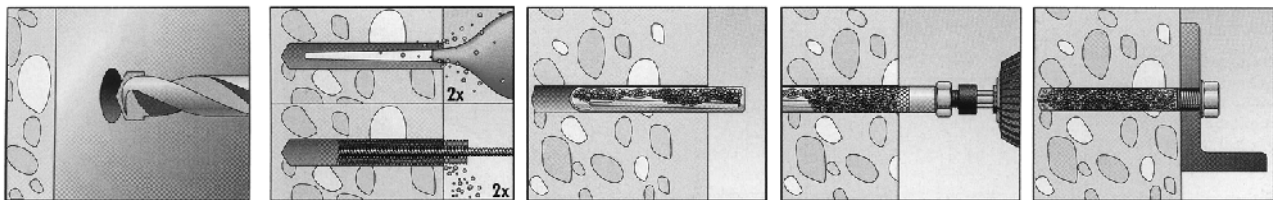


### Technical data



Type	RG 8x75 M5 I	RG 10x75 M6 I	RG 12x90 M8 I	RG 14x90 M10 I	RG 16x100 M12 I
d <sub>1</sub>	8	10	12	14	16
L	75	75	75	75	75
d <sub>2</sub>	M5	M6	M8	M10	M12
Nominal diameter of drill bit (d <sub>0</sub> )	10	12	14	16	18
Diameter of clearance hole in the fixture (d <sub>f</sub> )	6	7	9	12	14
Minimal thickness of concrete member (h <sub>min.</sub> )	100	110	140	140	170
Depth of drilled hole to deepest point (h <sub>0</sub> )	75	75	90	90	100
Effective anchorage depth (h <sub>ef</sub> )	75	75	90	90	100
Spacing (S <sub>cr, N</sub> ), characteristic	110	140	200	270	300
Edge distance (C <sub>cr, N</sub> ), characteristic	55	70	100	135	150
Minimal spacing (S <sub>min.</sub> )	40	45	55	60	65
Minimal edge distance (C <sub>min.</sub> )	40	45	55	60	65
Screw-in depth (min.-max.)	8-35	9-35	12-45	15-45	18-45
N=Allowable load in kN	3,4	4,8	8,7	13,8	16,5

- The allowable load is valid for one single anchor, at non-cracked concrete (pressure zone) with concrete class B25, in combination with boltclass 5.8 and/or stainless steel A4-70 and if the S<sub>cr, N</sub> and C<sub>cr, N</sub> are taken in to account. When reduction on spacing and edge distance take place a re-calculation of forces should be carried out.
- For a complete chemical fixing, the resin capsule and internal threaded anchor have to be ordered separately. Setting tool is enclosed in each packing.

### Assembly sequence

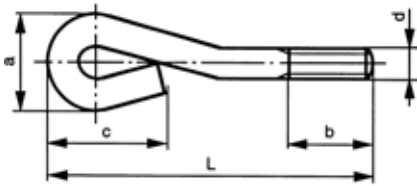


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<b>63227 FISCHER Chemical fixing internal threaded anchor type RG MI</b>		<b>N03A</b>
<b>Thread</b>	Metric thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	
		

Type	☒	Art.number	Type	☒	Art.number	Type	☒	Art.number
RG 8X75M 5I	10	<a href="#">63227.050.001</a>	RG 12X90M 8I	10	<a href="#">63227.080.090</a>	RG 16X100M 12I	10	<a href="#">63227.120.100</a>
RG 10X75M 6I	10	<a href="#">63227.060.001</a>	RG 14X90M 10I	10	<a href="#">63227.100.090</a>			

## Masonry bolt type A



DIN 529 A  
NEN 2328 A



### Technical data

d	P	a	b	c
M12	1,75	36	30	65
M16	2	48	40	85
M20	2,5	60	50	105
M24	3	75	60	125
M30	3,5	95	75	155

### 20710 Masonry bolt type A

G06D

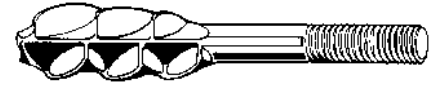
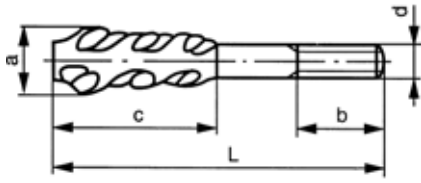
**Thread** Metric thread  
**Material** Steel  
**Class** 4.6  
**Packaging** Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M12X160	25	<a href="#">20710.120.160</a>	M20X200	5	<a href="#">20710.200.200</a>	M24X400	3	<a href="#">20710.240.400</a>
M12X200	25	<a href="#">20710.120.200</a>	M20X250	5	<a href="#">20710.200.250</a>	M24X500	3	<a href="#">20710.240.500</a>
M12X250	25	<a href="#">20710.120.250</a>	M20X320	5	<a href="#">20710.200.320</a>	M30X400	2	<a href="#">20710.300.400</a>
M16X160	10	<a href="#">20710.160.160</a>	M20X400	5	<a href="#">20710.200.400</a>	M30X500	2	<a href="#">20710.300.500</a>
M16X200	10	<a href="#">20710.160.200</a>	M20X500	5	<a href="#">20710.200.500</a>	M30X630	2	<a href="#">20710.300.630</a>
M16X250	10	<a href="#">20710.160.250</a>						
M16X320	10	<a href="#">20710.160.320</a>	M24X250	3	<a href="#">20710.240.250</a>			
M16X400	10	<a href="#">20710.160.400</a>	M24X320	3	<a href="#">20710.240.320</a>			

## Masonry bolt type E

DIN 529 E  
NEN 2328 E



### Technical data

d	P	a	b	c
M10	1,5	20	25	55
M12	1,75	24	30	70
M16	2	32	40	90
M20	2,5	40	50	100
M24	3	48	60	135
M30	3,5	60	75	150

### 20750 Masonry bolt type E

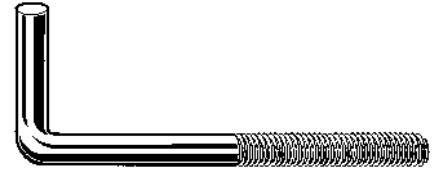
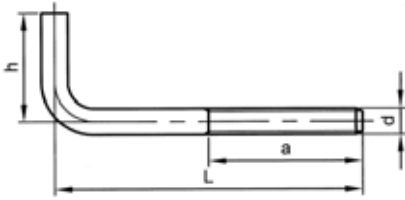
G06D

<b>Thread</b>	Metric thread
<b>Material</b>	Steel
<b>Class</b>	3.6
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M10X125	25	<a href="#">20750.100.125</a>	M24X250	3	<a href="#">20750.240.250</a>	M30X630	2	<a href="#">20750.300.630</a>
M12X125	25	<a href="#">20750.120.125</a>	M24X320	3	<a href="#">20750.240.320</a>			
M16X160	10	<a href="#">20750.160.160</a>	M30X320	2	<a href="#">20750.300.320</a>			
M20X200	5	<a href="#">20750.200.200</a>						
M20X320	5	<a href="#">20750.200.320</a>						

## Hook anchor



### Technical data

d	P	a
M10	2	150
M12	1,75	150
M16	2	150
M20	2,5	150
M24	3	150
M30	3,5	150

- Steel with a tensile strength of min. 400 N/mm<sup>2</sup> and a lower yield stress of min. 240 N/mm<sup>2</sup>.

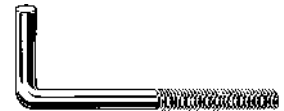
### Article groups

Thread	Material	Surface treatment	Packaging	Code	Page
M	St		50mm hook	Standard	20610 8-95
M	St	Zipl	50mm hook	Standard	20630 8-95
M	St	Hot d.g.	50mm hook	Standard	20650 8-95
M	St		100mm hook	Standard	20620 8-96
M	St	Zipl	100mm hook	Standard	20640 8-96
M	St	Hot d.g.	100mm hook	Standard	20660 8-96

#### 20610 Hook anchor with 50mm hook

**G06D**

Thread Metric thread  
 Material Steel  
 Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M10X200	25	<a href="#">20610.100.200</a>	M16X250	10	<a href="#">20610.160.250</a>	M16X450	10	<a href="#">20610.160.450</a>
M10X300	25	<a href="#">20610.100.300</a>	M16X300	10	<a href="#">20610.160.300</a>	M20X400	5	<a href="#">20610.200.400</a>
M12X300	25	<a href="#">20610.120.300</a>	M16X350	10	<a href="#">20610.160.350</a>			
M12X400	25	<a href="#">20610.120.400</a>	M16X400	10	<a href="#">20610.160.400</a>			

#### 20630 Hook anchor with 50mm hook

**G06D**

Thread Metric thread  
 Material Steel  
 Surface treatment Zinc plated  
 Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M10X200	25	<a href="#">20630.100.200</a>	M16X300	10	<a href="#">20630.160.300</a>	M16X450	10	<a href="#">20630.160.450</a>
M12X250	25	<a href="#">20630.120.250</a>	M16X350	10	<a href="#">20630.160.350</a>	M16X500	10	<a href="#">20630.160.500</a>
M16X250	10	<a href="#">20630.160.250</a>	M16X400	10	<a href="#">20630.160.400</a>			

#### 20650 Hook anchor with 50mm hook oversized thread

**G06D**

Thread Metric thread  
 Material Steel  
 Surface treatment Hot dip galvanized  
 Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M12X300	25	<a href="#">20650.120.300</a>	M16X300	10	<a href="#">20650.160.300</a>	M16X400	10	<a href="#">20650.160.400</a>
M12X400	25	<a href="#">20650.120.400</a>						

**20650 Hook anchor with 50mm hook oversized thread**

d x L	Art.number	d x L	Art.number	d x L	Art.number
M16X500	10 <a href="#">20650.160.500</a>				

**20620 Hook anchor with 100mm hook** G06D

<b>Thread</b>	Metric thread				
<b>Material</b>	Steel				
<b>Packaging</b>	Standard				



d x L	Art.number	d x L	Art.number	d x L	Art.number
M16X300	10 <a href="#">20620.160.300</a>	M20X400	5 <a href="#">20620.200.400</a>	M24X500	5 <a href="#">20620.240.500</a>
M16X400	10 <a href="#">20620.160.400</a>	M20X500	5 <a href="#">20620.200.500</a>	M24X600	5 <a href="#">20620.240.600</a>
M16X500	10 <a href="#">20620.160.500</a>	M20X600	5 <a href="#">20620.200.600</a>	M24X700	5 <a href="#">20620.240.700</a>
M16X600	10 <a href="#">20620.160.600</a>	M20X700	5 <a href="#">20620.200.700</a>	M24X800	5 <a href="#">20620.240.800</a>
M16X700	10 <a href="#">20620.160.700</a>	M20X800	5 <a href="#">20620.200.800</a>		
M20X300	5 <a href="#">20620.200.300</a>	M24X400	5 <a href="#">20620.240.400</a>	M30X600	2 <a href="#">20620.300.600</a>

**20640 Hook anchor with 100mm hook** G06D

<b>Thread</b>	Metric thread				
<b>Material</b>	Steel				
<b>Surface treatment</b>	Zinc plated				
<b>Packaging</b>	Standard				



d x L	Art.number	d x L	Art.number	d x L	Art.number
M16X600	10 <a href="#">20640.160.600</a>	M20X500	5 <a href="#">20640.200.500</a>	M24X500	5 <a href="#">20640.240.500</a>
M20X300	5 <a href="#">20640.200.300</a>	M20X600	5 <a href="#">20640.200.600</a>	M24X600	5 <a href="#">20640.240.600</a>
M20X400	5 <a href="#">20640.200.400</a>				

**20660 Hook anchor with 100mm hook oversized thread** G06D

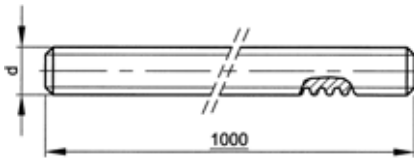
<b>Thread</b>	Metric thread				
<b>Material</b>	Steel				
<b>Surface treatment</b>	Hot dip galvanized				
<b>Packaging</b>	Standard				



d x L	Art.number	d x L	Art.number	d x L	Art.number
M12X300	25 <a href="#">20660.120.300</a>			M24X600	5 <a href="#">20660.240.600</a>
M12X400	25 <a href="#">20660.120.400</a>	M20X300	5 <a href="#">20660.200.300</a>	M24X800	5 <a href="#">20660.240.800</a>
		M20X400	5 <a href="#">20660.200.400</a>		
M16X300	10 <a href="#">20660.160.300</a>	M20X500	5 <a href="#">20660.200.500</a>	M30X600	2 <a href="#">20660.300.600</a>
M16X400	10 <a href="#">20660.160.400</a>	M20X600	5 <a href="#">20660.200.600</a>	M30X800	2 <a href="#">20660.300.800</a>
M16X500	10 <a href="#">20660.160.500</a>				
M16X600	10 <a href="#">20660.160.600</a>	M24X500	5 <a href="#">20660.240.500</a>		



## Threaded rod for shuttering knuckle thread

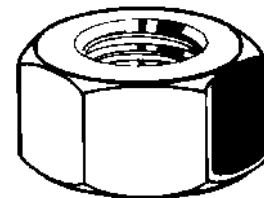
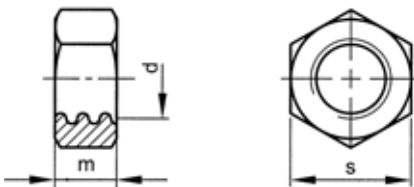


<b>20420</b>	<b>Threaded rod length 1 meter for shuttering knuckle thread</b>	<b>G05B</b>
<b>Material</b>	Steel	
<b>Class</b>	≥4.8	
<b>Packaging</b>	Standard	



d	☒	Art.number	d	☒	Art.number	d	☒	Art.number
20MM	4	<a href="#">20420.200.001</a>	24MM	4	<a href="#">20420.240.001</a>	30MM	2	<a href="#">20420.300.001</a>

## Hexagon nut for threaded rods for shuttering knuckle thread

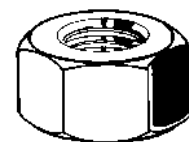


### Technical data

<b>d</b>	20	24	30
<b>P</b>	5	5	5
<b>m</b>	16	19	24
<b>s</b>	30	36	46

- Special features of threaded rods for shuttering:
- Are poured in concrete without using plastic sleeves or similar.
- After starching of the concrete the threaded rod can be loosened by hammering and turned out.
- Concrete does not adhere well on the threaded profile, so cleaning of the rods is not necessary and they can be re-used.
- The mortar to cover the hole afterwards attaches very well (contra-profile of the thread in the concrete).

<b>20430</b>	<b>Hexagon nut for threaded rods for shuttering knuckle thread</b>	<b>G05B</b>
<b>Material</b>	Steel	
<b>Class</b>	5	
<b>Packaging</b>	Standard	



d	☒	Art.number	d	☒	Art.number	d	☒	Art.number
20MM	8	<a href="#">20430.200.001</a>	24MM	8	<a href="#">20430.240.001</a>	30MM	4	<a href="#">20430.300.001</a>

## VEMO Concrete inserts

### General

VEMO concrete inserts are used in the concrete element industry not only for handling, lifting, transporting of fixing/joining of prefab elements, but also for constructional- and fixing purposes. The VEMO reinforced bar coupling system is unique as there is no loss of crosssection.

### Assembly

When the inserts have been embedded in the concrete in such a way, that the exposed threaded end lies beneath the concrete surfaceline, then the use of a protective cap is necessary.

### Mechanical properties

The giving values on the following pages are based on the admissible static load, purely pull-out or shearing load. They are calculated by applying of a safety-coefficient of  $V = 4 - 5$  to the average breaking-load in concrete with a specific compression strenght of 22,5 N/mm. The given values for loads are guidelines.

### Calculation

For a combination of a pull-out load (N) and a shearing load (T) the following formula may be used:  $F_{\text{admissible}} = \sqrt{N^2 + T^2}$ . If using VEMO concrete inserts the following guidelines have to be observed, for

constructional inserts the distance between eachother has to be bigger than  $10xd$  (being the threaddiameter of the insert). The distance between the insert and the edge of the concrete has to be bigger than  $5xd$ .

### Specifications

Many considerations, such as the strenght and the age of the concrete, reinforcement details, as well as the circumstances under which the inserts are loaded, are factors, which can influence considerably the carrying capacity (see f.i. specifications of Dutch standard-NEN 3880, VB-C-717.4, Dutch "Arbeidsinspectie", etc.)

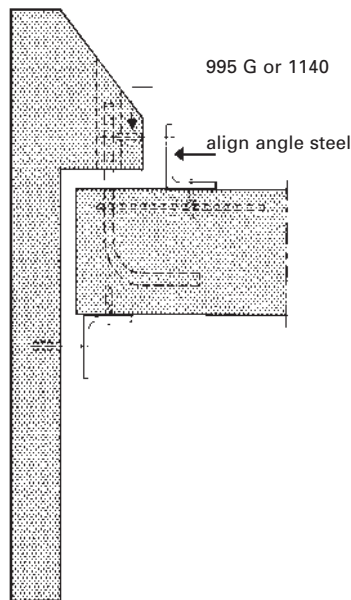
### Specials

On request available with hot dip galvanized treatment, the stainless steel qualities of the concrete inserts are AISI 303 and 304 (V2A), this material, known as 18-8 steel, gives an excellent resistance against corrosion; and AISI 316 Ti, this material is stabilized with molybdenum and titanium. It carries a high resistance against tension and inter-crystalline corrosion. The material is used in high concentration of chlorides and/of high temperature areas.

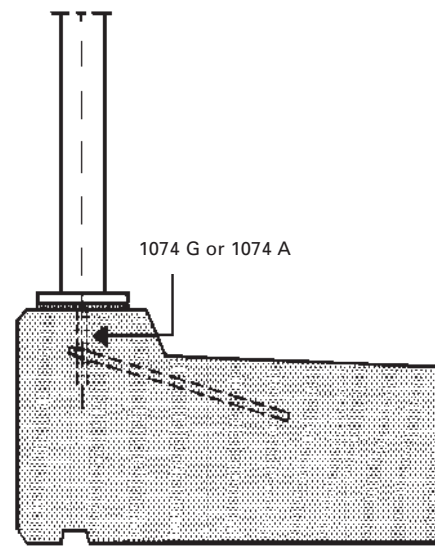
### Quality

All VEMO concrete inserts are tested by the Dutch TNO - IBBC. Barconnectors No. 1550 and bushes No. 1551 are acc. to conditions in VB-C-717.1.2

8



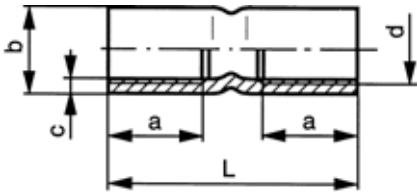
Fixing of roof slated at concrete floors



Fixing of railings on balconies

For anchoring in READY concrete see LIEBIG, SPIT and FISCHER anchors and expanding bolts elsewhere in this section. Further technical data available on request.

## Bar connector



### Technical data

	M12	M16	M20
d	M12	M16	M20
P	1,75	2	2,5
a	18	24	30
b	15,5	21	26
c	2,5	3,4	4,2
Stretching load in kN	39	75	115

18550 VEMO Bar connector No. 1550

P07A

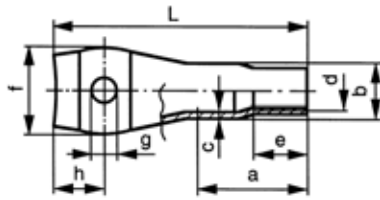
Thread Metric thread  
Material Steel  
Surface treatment Zinc plated  
Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M12X45	200	<a href="#">18550.120.045</a>	M16X60	200	<a href="#">18550.160.060</a>	M20X75	100	<a href="#">18550.200.075</a>

- Available on request, with flangeplate no.1600.
- Depending on availability these articles can be supplied zinc plated as well as zinc plated, yellow passivated.

## Tube insert No. 995G



### Technical data

d	M6	M8	M10	M12	M16	M16	M20	M24	M30
L	40	40	50	60	70	100	100	120	150
a	20	20	20	25	25	32	40	50	70
b	8,5	10,5	13,5	17	21,3	21,3	26,9	33,7	42
c	1	1	1,5	2	3,2	3,2	3,2	4	4
e	6	8	10	12	16	16	20	24	30
f	12,5	16	20	25	30	30	39	48	64
g	6,2	8,1	6,2	7,2	9,2	9,2	12,2	14,2	15,2
h	7	8	12	15	17	22	22	25	25
<b>Pull-out force in kN</b>									
Concrete	6	10	14	20	28	40	50	72	110

- Pull-out force in kN.
- It is advised to take a safety factor 4.

### 18040 VEMO Tube insert No. 995 G

P07A

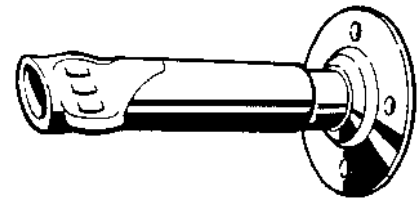
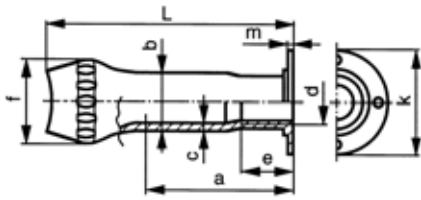
<b>Thread</b>	Metric thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X40	500	<a href="#">18040.060.040</a>	M16X70	200	<a href="#">18040.160.070</a>	M24X120	50	<a href="#">18040.240.120</a>
M8X50	500	<a href="#">18040.080.050</a>	M16X100	100	<a href="#">18040.160.100</a>	M30X150	25	<a href="#">18040.300.150</a>
M10X50	500	<a href="#">18040.100.050</a>						
M12X60	400	<a href="#">18040.120.060</a>	M20X100	100	<a href="#">18040.200.100</a>			

- Depending on availability these articles can be supplied zinc plated as well as zinc plated, yellow passivated.

**Insert with nailing plate No. 1036**



**Technical data**

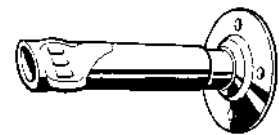
	M10	M12	M16	M20	M24
d					
a	30	40	32	50	40
b	13,5	17	21,3	26,9	33,7
c	1,5	2	2,6	2,6	4
e	10	12	16	20	24
f	20	25	31	39	48
k	34	40	44	48	57
m	1	1	1,5	1,5	1,5
<b>Pull-out force in kN</b>					
Concrete	16	24	40	50	64

- Pull-out force in kN.
- It is advised to take a safety factor 4.

**18060 VEMO Insert with nailing plate No. 1036**

P07A

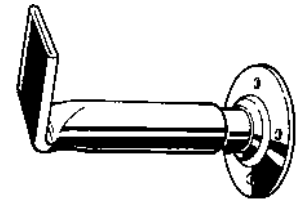
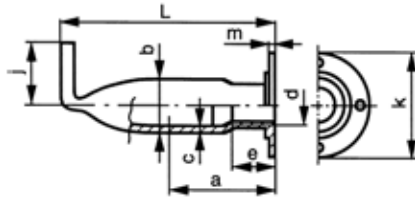
<b>Thread</b>	Metric thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M10X60	200	<a href="#">18060.100.060</a>	M16X100	100	<a href="#">18060.160.100</a>			
M12X70	200	<a href="#">18060.120.070</a>	M20X100	100	<a href="#">18060.200.100</a>			

- Depending on availability these articles can be supplied zinc plated as well as zinc plated, yellow passivated.

**Insert with nailing plate No. 1130**



**Technical data**

	M10	M12	M16	M20
d	M10	M12	M16	M20
a	35	40	32	40
b	13,5	17	21,3	26,9
c	1,5	2	2,6	2,6
e	10	12	16	20
j	25	30	35	35
k	34	40	44	48
m	1	1	1,5	1,5
<b>Pull-out force in kN</b>				
Concrete	24	32	52	64

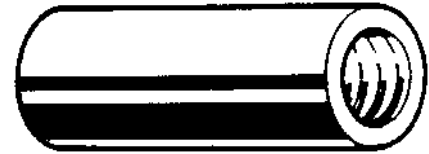
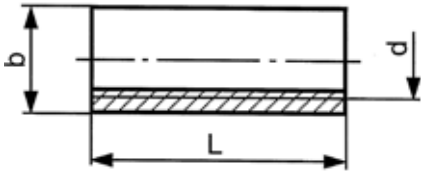
- Pull-out force in kN.
- It is advised to take a safety factor 4.

18140 VEMO Insert with nailing No. 1130		P07A
<b>Thread</b>	Metric thread	 
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M10X60	400	<a href="#">18140.100.060</a>	M12X70	200	<a href="#">18140.120.070</a>	M16X100	100	<a href="#">18140.160.100</a>

- Depending on availability these articles can be supplied zinc plated as well as zinc plated, yellow passivated.

## Bush



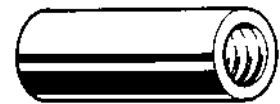
### Technical data

d	P	b	Stretching load in kN
M6	1	10	13
M8	1,25	12	16
M10	1,5	13	14
M12	1,75	15,5	39
M16	2	21	75
M20	2,5	26	115
M24	3	32	181
M30	3,5	40	284

18570 VEMO Bush No. 1551

P07A

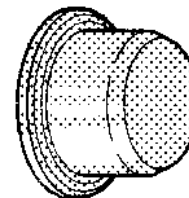
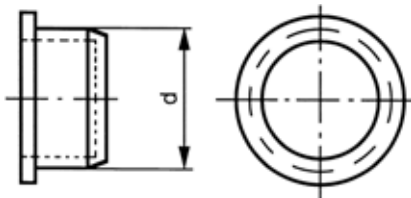
Thread Metric thread  
Material Steel  
Surface treatment Zinc plated  
Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X15	200	<a href="#">18570.060.015</a>	M12X35	200	<a href="#">18570.120.035</a>	M24X70	50	<a href="#">18570.240.070</a>
M8X20	200	<a href="#">18570.080.020</a>	M16X45	200	<a href="#">18570.160.045</a>	M30X90	25	<a href="#">18570.300.090</a>
M10X25	200	<a href="#">18570.100.025</a>	M20X55	100	<a href="#">18570.200.055</a>			

- Depending on availability these articles can be supplied zinc plated as well as zinc plated, yellow passivated.

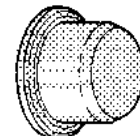
## Pipe plug



18600 VEMO Pipe plug No. 2244

P07A

Material Plastic Polyethylene  
Packaging Standard



d = For nom. size	☒	Art.number	d = For nom. size	☒	Art.number	d = For nom. size	☒	Art.number
M6-RED	100	<a href="#">18600.060.001</a>	M12-RED	100	<a href="#">18600.120.001</a>	M24-RED	100	<a href="#">18600.240.001</a>
M8-RED	100	<a href="#">18600.080.001</a>	M16-BLACK	100	<a href="#">18600.160.001</a>			
M10-RED	100	<a href="#">18600.100.001</a>	M20-BLUE	100	<a href="#">18600.200.001</a>			