

fischer Fixings

Trade line range in fischer quality.



As a global market leader in anchor and fixing technology, we fulfill the needs of our customers around the clock. We meet the highest demands on all levels of fixing technology in the construction industry.

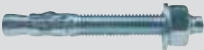
Our highest goal is to satisfy your requirements in a world that is continually changing. You want fixing solutions from fischer that are secure and cost-effective. Anchoring light loads can frequently be achieved with fixing elements that do not require any approval. Our new trade line range is specifically designed and set-up for this application area.

All products in the fischer trade line range are subject to our quality control.

For more demanding applications in which safety for life and limb has the highest priority, we recommend our approved by building authorities products.

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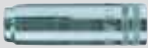
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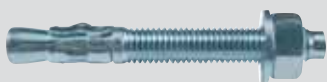


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Wedge Anchor FWA

Wedge anchors (bolt anchors) in zinc-plated steel and stainless steel A2.



FWA

DESCRIPTION

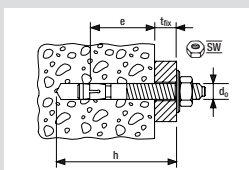
- Anchor bolt for push-through installation.
- When the hexagon nut is tightened, the tapered bolt is pulled into the expansion clip and expands it against the hole wall.
- Thread diameter 6 to 20 mm.
- Zinc plated steel version for indoor use.
- A2 stainless steel version for outdoor use and in damp conditions.

Suitable for:

- Non-cracked concrete \geq C20/25.
- Natural stone with dense structure.

For fixing of:

- Steel and wooden constructions.



Type	Art. No.	Di- ameter	Drill- ϕ	Total length	Min. drill hole depth for through installation mode	Min. embed- ment depth	Max. usable length	Width across nut	N_{rec}	V_{rec}	Min. axial spacing	Min. edge distance	Qty. per box
		M	d_0 mm	L mm	h mm	e mm	t_{fix} mm	SW	kN	kN	mm	mm	pcs.
Zinc-plated steel													
FWA 6 x 40	45536	6	6	40	40	27	3	10	2.1	1.5	85	45	100
FWA 6 x 55	45582	6	6	55	55	35	15	10	2.1	1.5	105	55	100
FWA 6 x 70	45598	6	6	70	70	35	30	10	2.1	1.5	105	55	100
FWA 8 x 50	45644	8	8	50	50	35	10	13	2.8	2.8	105	55	50
FWA 8 x 65	45788	8	8	65	65	40	20	13	2.8	2.8	120	60	50
FWA 8 x 80	45789	8	8	80	80	40	35	13	2.8	2.8	120	60	50
FWA 8 x 95	45790	8	8	95	95	40	50	13	2.8	2.8	120	60	50
FWA 8 x 120	45791	8	8	120	120	40	75	13	2.8	2.8	120	60	50
FWA 10 x 65	45645	10	10	65	65	40	15	17	3.8	3.8	120	60	50
FWA 10 x 80	45792	10	10	80	80	50	20	17	3.8	3.8	150	75	50
FWA 10 x 95	45793	10	10	95	95	50	35	17	3.8	3.8	150	75	50
FWA 10 x 115	45794	10	10	115	115	50	55	17	3.8	3.8	150	75	25
FWA 10 x 130	45646	10	10	130	130	50	70	17	3.8	3.8	150	75	25
FWA 12 x 80	45647	12	12	80	80	50	20	19	5.8	5.8	150	75	25
FWA 12 x 100	45648	12	12	100	100	60	30	19	5.8	5.8	180	90	25
FWA 12 x 120	45795	12	12	120	120	60	50	19	5.8	5.8	180	90	25
FWA 12 x 150	45796	12	12	150	150	60	80	19	5.8	5.8	180	90	25
FWA 16 x 105	45649	16	16	105	95	70	15	24	8.5	8.5	210	105	20
FWA 16 x 140	45798	16	16	140	130	80	40	24	8.5	8.5	240	120	10
FWA 16 x 180	45799	16	16	180	170	80	80	24	8.5	8.5	240	120	10
FWA 20 x 160	45800	20	20	160	150	100	40	27	13.5	13.5	300	150	10
Stainless steel A2													
FWA 6 x 55 A2	45801	6	6	55	55	35	15	10	2.1	-	105	55	50
FWA 8 x 65 A2	45802	8	8	65	65	40	20	13	2.9	-	120	60	50
FWA 8 x 95 A2	45803	8	8	95	95	40	50	13	2.9	-	120	60	50
FWA 10 x 80 A2	45804	10	10	80	80	50	20	17	3.8	-	150	75	25
FWA 10 x 115 A2	45805	10	10	115	115	50	55	17	3.8	-	150	75	25
FWA 12 x 100 A2	45806	12	12	100	100	60	30	19	5.8	-	180	90	25
FWA 12 x 150 A2	45807	12	12	150	150	60	80	19	5.8	-	180	90	25
FWA 16 x 140 A2	45808	16	16	140	130	80	40	24	8.5	-	240	120	10

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Threaded Rod FTR

Threaded rod (zinc-plated steel, steel quality 5.8)
with pitched area and hexagonal installation drive.



FTR

DESCRIPTION

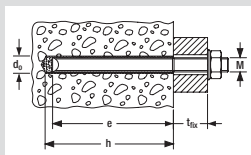
- Threaded rod for use with Injection mortar FIS or 2-component resin capsule RM.
- The resin adheres to the entire surface of the threaded rod, bonding it to the wall of the drilled hole.
- For pre-positioned installation.
- Carbon steel grade 5.8.
- Threaded rods are supplied with an easy-to-use hexagonal installation drive and a setting tool included in each package.
- Thread diameter 8 to 30 mm.
- Zinc plated steel version for indoor use.

Suitable for:

- Non-cracked concrete \geq C12/15.
- Natural stone with dense structure.

For fixing of:

- Steel and wooden constructions.



Type	Art. No.	Diameter	Drill- ϕ	Total length	Min. drill hole depth at pre-installation mode	Min. embedment depth	Max. usable fixing length	Width across nut	Steel Quality	Quantity per box
		M	d_0 mm	L mm	h mm	e mm	$t_{fix} \leq$ mm	SW		pcs.
FTR M 8 x 110	45809	8	10	110	80	80	16	13	5.8	10
FTR M10 x 130	45810	10	12	130	90	90	22	17	5.8	10
FTR M12 x 160	45812	12	14	160	110	110	30	19	5.8	10
FTR M16 x 190	45813	16	18	190	125	125	38	24	5.8	10
FTR M20 x 260	45814	20	25	260	170	170	70	30	5.8	10
FTR M24 x 300	45815	24	28	300	210	210	65	36	5.8	5
FTR M30 x 380	45816	30	35	380	280	280	70	46	5.8	5

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Hammer-set Anchor EA-N

Drop-in anchor in zinc-plated steel.



EA-N

DESCRIPTION

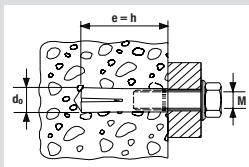
- Hammer-set anchor with internal thread for pre-positioned installation.
- When the expander plug is driven in with EAW H setting tool, the anchor sleeve is expanded and is tensioned against the hole wall.
- Suitable for all screws or studs with metric threads.
- Low anchoring depth reduces drilling time and thus allows cost-efficient installation.
- Surface-flush anchor allows the attached item to be removed and refitted several times.
- Internal thread diameter 6 to 20 mm.
- Zinc plated steel version for indoor use.

Suitable for:

- Non-cracked concrete \geq C12/15.
- Natural stone with dense structure.
- Anchoring light ceiling linings and suspended ceilings.

For fixing of:

- Pipes and sprinkler systems.
- Steel constructions.
- Cable trays.
- Suspended ceilings.



Type	Art. No.	Diameter	Drill- ϕ	Total length	Min. drill hole depth at pre-installation mode	Min. embedment depth	Mean ultimate loads Tensile	N_{rec}	Quantity per box
		M	d_0 mm	L mm	h mm	e mm	N_{t0} ¹⁾ kN	kN	pcs.
EA M6 N	90159	6	8	25	25	25	6.0	1.5	100
EA M8 N	90160	8	10	30	30	30	8.4	2.1	100
EA M10 N	90161	10	12	40	40	40	13.2	3.3	50
EA M12 N	90162	12	15	50	50	50	19.2	4.8	50
EA M16 N	90163	16	20	65	65	65	28.0	7.0	25
EA M20 N	90164	20	25	80	80	80	38.0	9.5	25

¹⁾ All load values apply for concrete C20/25 without edge or spacing influence. Safe working loads: Safety factor on mean ultimate loads \geq 4.

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Sleeve Anchor FSL

Sleeve anchor in zinc-plated steel with hexagonal head screw, nut and washer.



FSL-B



FSL-S

DESCRIPTION

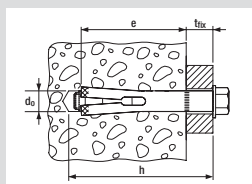
- Light sleeve anchor for push-through installation.
- When the hexagonal nut or bolt is tightened, the tapered screw is pulled into the expansion sleeve and expands it against the hole wall.
- Different head shapes available:
 - stud with hexagon nut (FSL-B)
 - hexagon head screw (FSL-S)
- Diameters 6 to 20 mm.
- Zinc plated steel version for indoor use.

Suitable for:

- Non-cracked concrete \geq C12/15.
- Natural stone with dense structure.

For fixing of:

- Steel constructions.



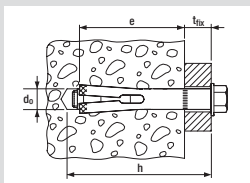
Type	Art. No.	Thread	Drill- ϕ	Total length	Min. drill hole depth for through installation mode h	Min. embedment depth e	Max. usable length	Width across nut	Mean ultimate loads Tensile N_u (1)	N_{rec}	V_{rec}	Min. axial spacing	Min. edge distance	Qty. per box
		ϕ M	d_0 mm	L mm	mm	mm	t_{fix} mm	SW	kN	kN	kN	mm	mm	pcs.
FSL-B: projecting bolt with hexagonal nut with washer														
FSL 6.5/3 B (6.5 x 25)	93801	5	6	33	35	20	3	8	5.0	1.3	1.0	60	30	100
FSL 6.5/8 B (6.5 x 36)	93802	5	6	41	45	25	8	8	5.0	1.3	1.0	75	40	100
FSL 6.5/28 B (6.5 x 56)	93803	5	6	62	65	25	28	8	5.0	1.3	1.0	75	40	100
FSL 8/12 B (8 x 40)	93804	6	8	47	50	25	12	10	10.0	2.1	1.4	75	40	100
FSL 8/37 B (8 x 65)	93805	6	8	73	75	25	37	10	10.0	2.1	1.4	75	40	100
FSL 8/57 B (8 x 85)	93806	6	8	93	95	25	57	10	10.0	2.1	1.4	75	40	25
FSL 10/12 B (10 x 50)	93807	8	10	58	60	30	12	13	11.5	2.9	2.5	105	55	25
FSL 10/39 B (10 x 77)	93808	8	10	85	90	30	39	13	11.5	2.9	2.5	105	55	25
FSL 10/59 B (10 x 97)	93809	8	10	105	110	30	59	13	11.5	2.9	2.5	105	55	25
FSL 12/15 B (12 x 60)	93810	10	12	69	70	40	15	17	17.1	4.3	4.3	135	70	25
FSL 12/27 B (12 x 75)	93811	10	12	84	85	40	27	17	17.1	4.3	4.3	135	70	25
FSL 12/51 B (12 x 99)	93812	10	12	108	110	40	51	17	17.1	4.3	4.3	135	70	20
FSL 12/81 B (12 x 129)	93813	10	12	138	140	40	81	17	17.1	4.3	4.3	135	70	20
FSL 16/20 B (16 x 65)	93814	12	16	78	80	40	20	19	17.1	4.3	4.3	135	70	20
FSL 16/65 B (16 x 111)	93815	12	16	125	125	40	65	19	17.1	4.3	4.3	135	70	10
FSL 16/102 B (16 x 147)	93817	12	16	160	165	40	102	19	17.1	4.3	4.3	135	70	10
FSL 20/101 B (20 x 151)	93818	16	20	168	170	40	101	24	17.1	4.3	4.3	150	75	5

¹⁾ All load values apply for concrete C20/25 without edge or spacing influence. Safe working loads: Safety factor on mean ultimate loads \geq 4.

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Sleeve Anchor FSL

Sleeve anchor in zinc-plated steel with hexagonal head screw, nut and washer.



Type	Art. No.	Thread	Drill- ϕ		Total length L mm	Min. drill hole depth for through installation mode h mm	Min. embedment depth e mm	Max. usable length t_{fix} mm	Width across nut SW	Qty. per box pcs.
			ϕ M	do mm						
FSL-S: hexagonal head screw										
FSL 8/2 S (8 x 45)	93773	6	8	8	45	55	30	2	10	100
FSL 8/15 S (8 x 60)	93774	6	8	8	60	70	30	15	10	100
FSL 8/35 S (8 x 80)	93775	6	8	8	80	90	30	35	10	50
FSL 8/55 S (8 x 100)	93776	6	8	8	100	110	30	55	10	50
FSL 8/75 S (8 x 120)	93777	6	8	8	120	130	30	75	10	50
FSL 10/5 S (10 x 55)	93778	8	10	10	55	65	35	5	13	50
FSL 10/10 S (10 x 60)	93779	8	10	10	60	70	35	10	13	40
FSL 10/20 S (10 x 80)	93780	8	10	10	80	90	45	20	13	50
FSL 10/25 S (10 x 85)	93781	8	10	10	85	95	45	25	13	25
FSL 10/40 S (10 x 100)	93782	8	10	10	100	110	45	40	13	50
FSL 10/50 S (10 x 110)	93783	8	10	10	110	120	45	50	13	50
FSL 10/60 S (10 x 120)	93784	8	10	10	120	130	45	60	13	50
FSL 12/2 S (12 x 70)	93785	10	12	12	70	80	45	2	15	50
FSL 12/5 S (12 x 80)	93786	10	12	12	80	90	55	5	15	50
FSL 12/25 S (12 x 100)	93787	10	12	12	100	110	55	25	15	40
FSL 12/35 S (12 x 110)	93788	10	12	12	110	120	55	35	15	20
FSL 12/45 S (12 x 120)	93789	10	12	12	120	130	55	45	15	20
FSL 12/75 S (12 x 150)	93790	10	12	12	150	160	55	75	15	20
FSL 16/2 S (16 x 75)	93911	12	16	16	75	90	55	2	17	25
FSL 16/5 S (16 x 80)	93912	12	16	16	80	95	55	5	17	25
FSL 16/15 S (16 x 100)	93912	12	16	16	100	110	65	15	17	20
FSL 16/65 S (16 x 150)	93792	12	16	16	150	165	65	65	17	20
FSL 20/15 S (20 x 110)	93793	16	20	20	110	130	70	15	19	20

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Sleeve Anchor FSL with Red Ring

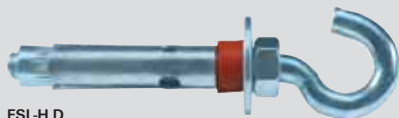
Light sleeve anchor in zinc-plated steel with red distance ring.



FSL-S D



FSL-EY D



FSL-H D

DESCRIPTION

- Light sleeve anchor with red distance ring for push-through installation.
- When the hexagonal nut or bolt is tightened, the tapered screw is pulled into the expansion sleeve and expands it against the hole wall.
- Different head shapes available:
 - hexagon head screw (FSL-S)
 - eye bolt (FSL-EY)
 - hook bolt (FSL-H)
- Diameters 6 to 25 mm.
- Zinc plated steel version for indoor use.

Suitable for:

- Non-cracked concrete \geq C12/15.
- Natural stone with dense structure.

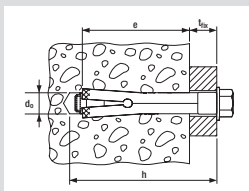
For fixing of:

- Steel constructions.

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Sleeve Anchor FSL with Red Ring

Light sleeve anchor in zinc-plated steel with red distance ring.



Type	Art. No.	Thread- ϕ	Drill- ϕ d_0 mm	Total length L mm	Min. drill hole depth for through installation mode h mm	Min. embedment depth e mm	Max. usable length l_{fix} mm	Width across nut SW	Quantity per box pcs.
FSL-S with plastic Ring									
FSL M6 x 45 D8	45650	6	8	45	55	30	2	10	100
FSL M6 x 60 D8	45759	6	8	60	70	30	15	10	100
FSL M6 x 45 D9	45760	6	9	45	55	30	2	10	100
FSL M6 x 60 D9	45651	6	9	60	70	30	15	10	100
FSL M8 x 60 D10	45652	8	10	60	70	35	5	13	50
FSL M8 x 80 D10	45653	8	10	80	90	35	15	13	50
FSL M8 x 60 D11	45761	8	11	60	70	35	5	13	50
FSL M8 x 80 D11	45763	8	11	80	90	35	15	13	50
FSL M10 x 70 D12	45654	10	12	70	80	45	2	17	50
FSL M10 x 100 D12	45655	10	12	100	110	45	25	17	50
FSL M10 x 70 D14	45764	10	14	70	80	45	2	17	50
FSL M10 x 100 D14	45765	10	14	100	110	45	25	17	50
FSL M12 x 80 D16	45656	12	16	80	95	55	2	19	25
FSL M12 x 110 D16	45657	12	16	110	125	65	25	19	25
FSL M16 x 110 D20	45658	16	20	110	130	70	15	24	25
FSL M20 x 130 D25	45659	20	25	130	155	80	25	30	15
FSL-EY: eyebolt with hexagonal nut, washer and red ring									
FSL M6 x 45 EY D8	45766	6	8	45	55	30	2	10	100
FSL M6 x 45 EY D9	45767	6	9	45	55	30	2	10	100
FSL M8 x 60 EY D10	45768	8	10	60	70	35	5	13	50
FSL M8 x 60 EY D11	45769	8	11	60	70	35	5	13	50
FSL M10 x 70 EY D12	45770	10	12	70	80	45	2	17	25
FSL M10 x 70 EY D14	45771	10	14	70	80	45	2	17	25
FSL M12 x 80 EY D16	45772	12	16	80	95	55	2	19	25
FSL-H: hook with hexagonal nut and washer									
FSL M6 x 45 H D8	45773	6	8	45	55	30	2	10	100
FSL M6 x 45 H D9	45774	6	9	45	55	30	2	10	100
FSL M8 x 60 H D10	45775	8	10	60	70	35	5	13	50
FSL M8 x 60 H D11	45776	8	11	60	70	35	5	13	50
FSL M10 x 70 H D12	45777	10	12	70	80	45	2	17	25
FSL M10 x 70 H D14	45778	10	14	70	80	45	2	17	25
FSL M12 x 80 H D16	45779	12	16	80	95	55	2	19	25

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Sleeve Anchor FSI

Versatile due to internal thread.



FSI

DESCRIPTION

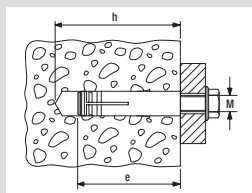
- Sleeve anchor with internal thread for pre-positioned installation.
- When the screw or hexagon nut is tightened, the cone is pulled into the expansion sleeve and expands it against the hole wall.
- Suitable for all bolts or studs with metric thread.
- Surface-flush fixing allows the attached item to be removed and refitted several times.
- Internal thread diameter M6 to M16.
- Zinc plated steel version for indoor use.

Suitable for:

- Non-cracked concrete \geq C12/15.

For fixing of:

- Steel constructions.



Type	Art. No.	Thread- ϕ	Drill- ϕ	Total length	Min. drill hole depth at pre-installation mode	Min embedment depth	Quantity per box
		M	d_p mm	L mm	h mm	e mm	pcs.
Zinc-plated steel							
FSI M 6	44955	6	12	45	50	35	25
FSI M 8	44956	8	14	50	55	45	25
FSI M 10	44957	10	16	60	65	50	25
FSI M 12	44958	12	20	75	85	60	25
FSI M 16	44959	16	24	95	110	65	10

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Wall Bolt FWB

Segmented steel shield anchor –
the widely accepted traditional fixing.



FWB

DESCRIPTION

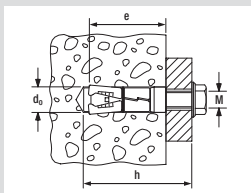
- Segmented steel shield anchor with internal thread for pre-positioned installation.
- Due to internal metric thread versatile for various head types.
- When the screw or hexagon nut is tightened, the cone is pulled into the expansion shields and pushes them against the hole wall.
- Three piece shield for even load spread.
- Surface-flush fixing allows the attached item to be removed.
- Zinc-plated steel version for indoor use.

Suitable for:

- Non-cracked concrete \geq C12/15.

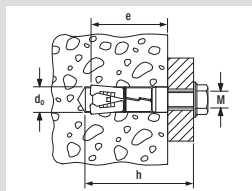
For fixing of:

- Steel constructions.



Type	Art. No.	Thread ϕ	Drill- ϕ	Total length	Min. drill hole depth at pre-installation mode	Min. embedment depth	Mean ultimate loads Tensile	N_{rec}	Qty. per box
		M	d_b mm	L mm	h mm	e mm	N_u ¹⁾ kN	kN	pcs.
Shield only									
FWB 6 S	44963	6	12	45	50	35	10	2.5	25
FWB 8 S	44964	8	14	50	60	40	12	3.0	25
FWB 10 S	44965	10	16	55	65	50	16	4.0	25
FWB 12 S	44966	12	20	75	85	60	25	6.3	25
FWB 16 S	44967	16	25	110	125	95	33	8.3	10
FWB 20 S	44970	20	32	130	150	110	48	12.0	10

¹⁾ All load values apply for concrete C12/15 without edge or spacing influence. Safe working loads: Safety factor on mean ultimate loads \geq 4.



Type	Art. No.	Thread ϕ	Drill- ϕ d_0 mm	Total length L mm	Min. drill hole depth at pre-installation mode h mm	Min. embedment depth e mm	Max. usable length t_{fix} mm	Thread ϕ x length	Mean ultimate loads Tensile N_{u1} kN	N_{rec} kN	Qty. per box pcs.
Loosebolt (with hex head screw)											
FWB 6/10 L (6 x 55)	44976	6	12	55	50	35	10	M 6 x 55	10	2.5	25
FWB 6/25 L (6 x 70)	44977	6	12	70	50	35	25	M 6 x 70	10	2.5	25
FWB 6/40 L (6 x 85)	44978	6	12	85	50	35	40	M 6 x 85	10	2.5	25
FWB 8/10 L (8 x 65)	44979	8	14	65	60	40	10	M 8 x 65	12	3.0	25
FWB 8/25 L (8 x 80)	44990	8	14	80	60	40	25	M 8 x 80	12	3.0	25
FWB 8/40 L (8 x 95)	44991	8	14	95	60	40	40	M 8 x 95	12	3.0	25
FWB 10/10 L (10 x 75)	44992	10	16	75	65	50	10	M10 x 75	16	4.0	25
FWB 10/25 L (10 x 90)	44993	10	16	90	65	50	25	M10 x 90	16	4.0	25
FWB 10/50 L (10 x 115)	44994	10	16	115	65	50	50	M10 x 115	16	4.0	25
FWB 10/75 L (10 x 140)	44995	10	16	140	65	50	75	M10 x 140	16	4.0	25
FWB 12/10 L (12 x 90)	44996	12	20	90	85	60	10	M12 x 90	25	6.3	25
FWB 12/25 L (12 x 105)	44997	12	20	105	85	60	25	M12 x 105	25	6.3	25
FWB 12/40 L (12 x 120)	44998	12	20	120	85	60	40	M12 x 120	25	6.3	25
FWB 12/60 L (12 x 140)	44999	12	20	140	85	60	60	M12 x 140	25	6.3	25
FWB 16/15 L (16 x 135)	45079	16	25	135	125	95	15	M16 x 135	33	8.3	10
FWB 16/30 L (16 x 150)	45099	16	25	150	125	95	30	M16 x 150	33	8.3	10
FWB 16/60 L (16 x 180)	45108	16	25	180	125	95	60	M16 x 180	33	8.3	10
FWB 20/60 L (20 x 195)	45109	20	32	195	150	110	60	M20 x 195	48	12.0	10
Projecting Bolt											
FWB 6/10 P (6 x 65)	45110	6	12	65	50	35	10	M 6 x 65	10	2.5	25
FWB 6/25 P (6 x 80)	45119	6	12	80	50	35	25	M 6 x 80	10	2.5	25
FWB 6/60 P (6 x 115)	45124	6	12	115	50	35	60	M 6 x 115	10	2.5	25
FWB 8/10 P (8 x 75)	45158	8	14	75	60	40	10	M 8 x 75	12	3.0	25
FWB 8/25 P (8 x 90)	45159	8	14	90	60	40	25	M 8 x 90	12	3.0	25
FWB 8/60 P (8 x 125)	45173	8	14	125	60	40	60	M 8 x 125	12	3.0	25
FWB 10/15 P (10 x 90)	45174	10	16	90	65	50	15	M10 x 90	16	4.0	25
FWB 10/30 P (10 x 105)	45175	10	16	105	65	50	30	M10 x 105	16	4.0	25
FWB 10/60 P (10 x 135)	45186	10	16	135	65	50	60	M10 x 135	16	4.0	25
FWB 12/15 P (12 x 110)	45190	12	20	110	85	60	15	M12 x 110	25	6.3	25
FWB 12/30 P (12 x 125)	45191	12	20	125	85	60	30	M12 x 125	25	6.3	25
FWB 12/75 P (12 x 170)	45208	12	20	170	85	60	75	M12 x 170	25	6.3	25
FWB 20/30 P (20 x 185)	45209	20	32	185	150	110	30	M20 x 185	48	12.0	10
Eyebolt											
FWB 6 E (6 x 73)	45270	6	12	73	50	35	-	M 6 x 73	-	-	25
FWB 8 E (8 x 87)	45290	8	14	87	60	40	-	M 8 x 87	-	-	25
FWB 10 E (10 x 108)	45402	10	16	108	65	50	-	M10 x 108	-	-	25
FWB 12 E (12 x 130)	45419	12	20	130	85	60	-	M12 x 130	-	-	25
Hookbolt											
FWB 6 H (6 x 83)	45533	6	12	83	50	35	-	M 6 x 83	-	-	25
FWB 8 H (8 x 98)	45534	8	14	98	60	40	-	M 8 x 98	-	-	25
FWB 10 H (10 x 120)	45535	10	16	120	65	50	-	M10 x 120	-	-	25

¹⁾ All load values apply for concrete C12/15 without edge or spacing influence. Safe working loads: Safety factor on mean ultimate loads ≥ 4 .

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Outcone Anchor FOC

Deformation controlled anchor with internal thread.



FOC

DESCRIPTION

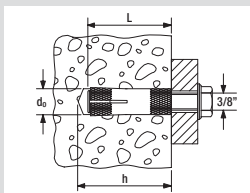
- Deformation controlled expansion anchor with internal thread for pre-positioned installation.
- When the sleeve is pushed over the cone, it cuts a slight undercut. Therefore the drill depth has to be observed.
- Due to internal metric thread versatile for various head types.
- Surface-flush fixing allows the attached item to be removed.
- Zinc-plated steel version for indoor use.

Suitable for:

- Non-cracked concrete $\geq C12/15$.

For fixing of:

- Steel constructions.



Type	Art. No.	Thread- ϕ	Drill- ϕ d_0 mm	Total length L mm	Min. drill hole depth at pre-installation mode h mm	Min. embedment depth mm	Setting tool	Quantity per box pcs.
FOC 3/8"	45822	3/8"	14	40	45	40	45823 Setting Tool FOC	100
Set FOC 3/8"+ Setting Tool	45824	3/8"	14	40	45	40	inclusive	500+1
Setting Tool FOC	45823	-	-	-	-	-	-	1

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