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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

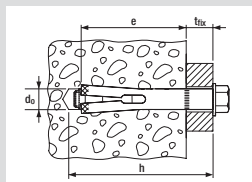
- Light sleeve anchor for push-through installation.
- When the hexagonal nut or bolt is tightened, the tapered screw is pulled into the expansion sleeve and expands it against the hole wall.
- Different head shapes available:
 - stud with hexagon nut (FSL-B)
 - hexagon head screw (FSL-S)
- Diameters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



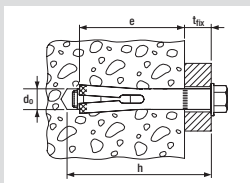
Type	Art. No.	Thread	Drill- ϕ	Total length	Min. drill hole depth for through installation mode h	Min. embedment depth e	Max. usable length	Width across nut	Mean ultimate loads Tensile N_u (1)	N_{rec}	V_{rec}	Min. axial spacing	Min. edge distance	Qty. per box
		ϕ M	d_0 mm	L mm	mm	mm	t_{fix} mm	SW	kN	kN	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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Type	Art. No.	Thread	Drill- ϕ	Total length	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						
FSL-S: hexagonal head screw									
FSL 8/2 S (8 x 45)	93773	6	8	45	55	30	2	10	100
FSL 8/15 S (8 x 60)	93774	6	8	60	70	30	15	10	100
FSL 8/35 S (8 x 80)	93775	6	8	80	90	30	35	10	50
FSL 8/55 S (8 x 100)	93776	6	8	100	110	30	55	10	50
FSL 8/75 S (8 x 120)	93777	6	8	120	130	30	75	10	50
FSL 10/5 S (10 x 55)	93778	8	10	55	65	35	5	13	50
FSL 10/10 S (10 x 60)	93779	8	10	60	70	35	10	13	40
FSL 10/20 S (10 x 80)	93780	8	10	80	90	45	20	13	50
FSL 10/25 S (10 x 85)	93781	8	10	85	95	45	25	13	25
FSL 10/40 S (10 x 100)	93782	8	10	100	110	45	40	13	50
FSL 10/50 S (10 x 110)	93783	8	10	110	120	45	50	13	50
FSL 10/60 S (10 x 120)	93784	8	10	120	130	45	60	13	50
FSL 12/2 S (12 x 70)	93785	10	12	70	80	45	2	15	50
FSL 12/5 S (12 x 80)	93786	10	12	80	90	55	5	15	50
FSL 12/25 S (12 x 100)	93787	10	12	100	110	55	25	15	40
FSL 12/35 S (12 x 110)	93788	10	12	110	120	55	35	15	20
FSL 12/45 S (12 x 120)	93789	10	12	120	130	55	45	15	20
FSL 12/75 S (12 x 150)	93790	10	12	150	160	55	75	15	20
FSL 16/2 S (16 x 75)	93911	12	16	75	90	55	2	17	25
FSL 16/5 S (16 x 80)	93791	12	16	80	95	55	5	17	25
FSL 16/15 S (16 x 100)	93912	12	16	100	110	65	15	17	20
FSL 16/65 S (16 x 150)	93792	12	16	150	165	65	65	17	20
FSL 20/15 S (20 x 110)	93793	16	20	110	130	70	15	19	20