

Technical data sheet

FRULSIDER

SIMPSON
StrongTie

TSA-PATTEN Metal Sleeve Anchor

TSA-PATTEN is a sleeve anchor which allows for quick and easy installation in solid materials due to the low installation torque needed to install it.

Features

Material

- Steel
- White zinc plated

Benefits

- Uniform expansion ensured by the three expanding segments made out of a single pressed steel body
- Special shaped slots on the three expanding segments pull down gaps between the fixture and base material

Applications

Applications

- Brackets
- Garage doors
- Signs

Suitable for

- Non-cracked concrete
- Solid brick (partially suitable)
- Solid stone

NEW



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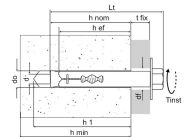
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TSA-PATTEN Metal Sleeve Anchor

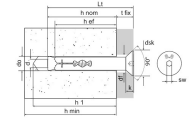
Technical Data

Product Dimensions - Hex head screw grade 8.8



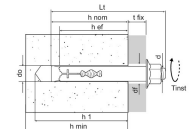
References	Product Reference	Hole diameter / fixture thickness [d _o /t _{fix}] [mm]	Plug [Ø x L]	Fixing thickness [max]	Screw diameter [d] [mm]	Min. hole depth [h ₁] [mm]	Nominal embedment depth [h _{nom}] [mm]	Min. setting depth [h _{ef}] [mm]	Hole diameter in fixture [d _f] [mm]	Min. support thickness [h _{min}] [mm]	Torque [Nn]
79602B0804500	TSA-PATTEN	8/08	8x45	8	M6	50	36	23	10	100	7
79602B0806000		8/23	8x60	23	M6	50	36	23	10	100	7
79602B0808000		8/43	8x80	43	M6	50	36	23	10	100	7
79602B0810000		8/63	8x100	63	M6	50	36	23	10	100	7
79602B0812000		8/83	8x120	83	M6	50	36	23	10	100	7
79602B0814000		8/103	8x140	103	M6	50	36	23	10	100	7
79602B0816000		8/123	8x160	123	M6	50	36	23	10	100	7
79602B1006000		10/15	10x60	15	M8	60	43	31	12	100	15
79602B1008000		10/35	10x80	35	M8	60	43	31	12	100	15
79602B1010000		10/55	10x100	55	M8	60	43	31	12	100	15
79602B1012000		10/75	10x120	75	M8	60	43	31	12	100	15
79602B1014000		10/95	10x140	95	M8	60	43	31	12	100	15
79602B1016000		10/115	10x160	115	M8	60	43	31	12	100	15
79602B1207000		12/17	12x70	17	M10	65	50	36	14	100	30
79602B1210000		12/47	12x100	47	M10	65	50	36	14	100	30
79602B1213000		12/77	12x130	77	M10	65	50	36	14	100	30
79602B1215000		12/97	12x150	97	M10	65	50	36	14	100	30
79602B1607000		16/03	16x70	3	M12	80	67	45	18	100	50
79602B1611000		16/40	16x110	40	M12	80	67	45	18	100	50
79602B1615000		16/80	16x150	80	M12	80	67	45	18	100	50

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Product Dimensions - Hex socket countersunk head

References	Product Reference	Hole diameter / fixture thickness $[d_o/t_{fix}]$ [mm]	Plug $[\varnothing \times L]$	Fixing thickness $[max]$	Screw diameter $[d]$ [mm]	Min. hole depth $[h_1]$ [mm]	Nominal embedment depth $[h_{nom}]$ [mm]	Min. setting depth $[h_{ef}]$ [mm]	Hole diameter in fixture $[d_f]$ [mm]	Min. support thickness $[h_{min}]$ [mm]	Torque $[Nn]$
79603B0806000	TSA-PATTEN	8/26	8x60	26	M6	44	34	23	10	100	7
79603B0808000	TSA-PATTEN	8/46	8x80	46	M6	44	34	23	10	100	7
79603B0810000	TSA-PATTEN	8/66	8x100	66	M6	44	34	23	10	100	7
79603B1006000	TSA-PATTEN	10/19	10x60	19	M8	51	41	31	12	100	15
79603B1008000	TSA-PATTEN	10/39	10x80	39	M8	51	41	31	12	100	15
79603B1010000	TSA-PATTEN	10/59	10x100	59	M8	51	41	31	12	100	15
79603B1012000	TSA-PATTEN	10/79	10x120	79	M8	51	41	31	12	100	15
79603B1207000	TSA-PATTEN	12/22	12x70	22	M10	58	48	36	14	100	30
79603B1210000	TSA-PATTEN	12/52	12x100	52	M10	58	48	36	14	100	30



Product Dimensions - Flanged Nut

References	Product Reference	Hole diameter / fixture thickness $[d_o/t_{fix}]$ [mm]	Plug $[\varnothing \times L]$	Fixing thickness $[max]$	Screw diameter $[d]$ [mm]	Min. hole depth $[h_1]$ [mm]	Nominal embedment depth $[h_{nom}]$ [mm]	Min. setting depth $[h_{ef}]$ [mm]	Hole diameter in fixture $[d_f]$ [mm]	Min. support thickness $[h_{min}]$ [mm]	Torque $[Nn]$
79600B0804000	TSA-PATTEN	8/05	8x40	5	M6	45	35	29	10	100	7
79600B0806500		8/30	8x65	30	M6	45	35	29	10	100	7
79600B1005000		10/10	10x50	10	M8	50	40	34	12	100	15
79600B1007700		10/37	10x77	37	M8	50	40	34	12	100	15
79600B1009700		10/57	10x97	57	M8	50	40	34	12	100	15
79600B1207500		12/25	12x75	25	M10	60	50	44	14	100	30
79600B1209900		12/49	12x99	49	M10	60	50	44	14	100	30
79600B1212900		12/79	12x129	79	M10	60	50	44	14	100	30
79600B1606500		16/10	16x65	10	M12	65	55	46	18	100	50
79600B1611100		16/56	16x111	56	M12	65	55	46	18	100	50
79600B1614700		16/92	16x147	92	M12	65	55	46	18	100	50

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Recommended capacities - single anchor

References	Product Reference	Recommended capacity		Installation data	
		Tension - N_{rec} [kN]	Shear - V_{rec} [kN]	Characteristic edge distance [ccr,N] [mm]	Characteristic spacing(5) - Scr,N [scr,N] [mm]
		Concrete C20/25	Concrete C20/25		
79600B0804000	TSA-PATTEN	1.2	1.2	75	100
79600B0806500	TSA-PATTEN	1.2	1.2	75	100
79600B1005000	TSA-PATTEN	1.6	1.6	85	120
79600B1007700	TSA-PATTEN	1.6	1.6	85	120
79600B1009700	TSA-PATTEN	1.6	1.6	85	120
79600B1207500	TSA-PATTEN	2.2	2.2	110	155
79600B1209900	TSA-PATTEN	2.2	2.2	110	155
79600B1212900	TSA-PATTEN	2.2	2.2	110	155
79600B1606500	TSA-PATTEN	3.8	3.8	115	160
79600B1611100	TSA-PATTEN	3.8	3.8	115	160
79600B1614700	TSA-PATTEN	3.8	3.8	115	160
79602B0804500	TSA-PATTEN	1.2	1.2	75	100
79602B0806000	TSA-PATTEN	1.2	1.2	75	100
79602B0808000	TSA-PATTEN	1.2	1.2	75	100
79602B0810000	TSA-PATTEN	1.2	1.2	75	100
79602B0812000	TSA-PATTEN	1.2	1.2	75	100
79602B0814000	TSA-PATTEN	1.2	1.2	75	100
79602B0816000	TSA-PATTEN	1.2	1.2	75	100
79602B1006000	TSA-PATTEN	1.6	1.6	85	120
79602B1008000	TSA-PATTEN	1.6	1.6	85	120
79602B1010000	TSA-PATTEN	1.6	1.6	85	120
79602B1012000	TSA-PATTEN	1.6	1.6	85	120
79602B1014000	TSA-PATTEN	1.6	1.6	85	120
79602B1016000	TSA-PATTEN	1.6	1.6	85	120
79602B1207000	TSA-PATTEN	2.2	2.2	110	155
79602B1210000	TSA-PATTEN	2.2	2.2	110	155
79602B1213000	TSA-PATTEN	2.2	2.2	110	155
79602B1215000	TSA-PATTEN	2.2	2.2	110	155
79602B1607000	TSA-PATTEN	3.8	3.8	115	160
79602B1611000	TSA-PATTEN	3.8	3.8	115	160
79602B1615000	TSA-PATTEN	3.8	3.8	115	160
79603B0806000	TSA-PATTEN	1.2	1.2	75	100
79603B0808000	TSA-PATTEN	1.2	1.2	75	100
79603B0810000	TSA-PATTEN	1.2	1.2	75	100
79603B1006000	TSA-PATTEN	1.6	1.6	85	120
79603B1008000	TSA-PATTEN	1.6	1.6	85	120
79603B1010000	TSA-PATTEN	1.6	1.6	85	120
79603B1012000	TSA-PATTEN	1.6	1.6	85	120
79603B1207000	TSA-PATTEN	2.2	2.2	110	155
79603B1210000	TSA-PATTEN	2.2	2.2	110	155

**These values are for guidance only*

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Installation

