

# 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

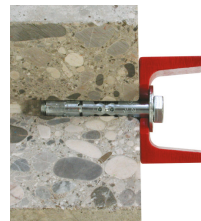
- Non-cracked concrete
- Solid brick (partially suitable)
- Solid stone

**NEW**



**EZ**

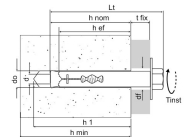
**INDOOR**



## TSA-PATTEN Metal Sleeve Anchor

### Technical Data

Product Dimensions - Hex head screw grade 8.8



References	Product Reference	Hole diameter / fixture thickness [d <sub>o</sub> /t <sub>fix</sub> ] [mm]	Plug [Ø x L]	Fixing thickness [max]	Screw diameter [d] [mm]	Min. hole depth [h <sub>1</sub> ] [mm]	Nominal embedment depth [h <sub>nom</sub> ] [mm]	Min. setting depth [h <sub>ef</sub> ] [mm]	Hole diameter in fixture [d <sub>f</sub> ] [mm]	Min. support thickness [h <sub>min</sub> ] [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

Product Dimensions - Hex socket countersunk head

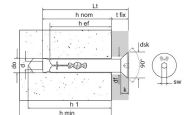


Table "Product Dimensions - Hex socket countersunk head" cannot be displayed : no references available.

Product Dimensions - Flanged Nut

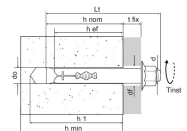


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## TSA-PATTEN Metal Sleeve Anchor

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		
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

*\*These values are for guidance only*

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### Installation

