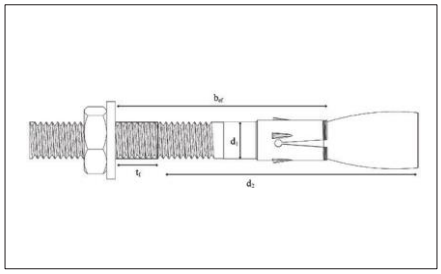
GreenBolt G2 Through Anchor - GBGTA



Specification

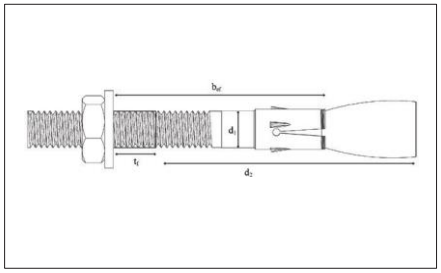
Material	Carbon Steel
Surface	Zinc-Plated (min. 5 µm)
Corrosion Resistant	Yes (for indoor dry conditions)
Drilling Method	Hammer Drilling, Diamond Drilling
Base Material	Concrete (Uncracked), Grades C20/25 to C50/60
Type of Fastening	Pre-Fastening, Through-Fastening
Reusability	No

Product Definition

GreenBolt G2 Through Anchor is mechanical anchor with a galvanized steel shaft and galvanized expansion clip, designed for secure fastening through pre-drilled holes in concrete. The through-bolt design allows installation directly through the fixture.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBGTA06060	M6 x 60	200	6	55	2	40	40	5.29	4.08
GBGTA06070	M6 x 70	200	6	55	12	40	40	5.29	4.08
GBGTA06080	M6 x 80	200	6	55	22	40	40	5.29	4.08
GBGTA06090	M6 x 90	200	6	55	32	40	40	5.29	4.08
GBGTA06100	M6 x 100	200	6	55	42	40	60	5.29	4.08
GBGTA06110	M6 x 110	200	6	55	52	40	60	5.29	4.08
GBGTA06120	M6 x 120	100	6	55	62	40	60	5.29	4.08
GBGTA06130	M6 x 130	100	6	55	72	40	60	5.29	4.08
GBGTA06140	M6 x 140	100	6	55	82	40	60	5.29	4.08
GBGTA06150	M6 x 150	100	6	55	92	40	60	5.29	4.08
GBGTA06160	M6 x 160	100	6	55	102	40	60	5.29	4.08
GBGTA06170	M6 x 170	100	6	55	112	40	60	5.29	4.08
GBGTA06180	M6 x 180	100	6	55	122	40	80	5.29	4.08
GBGTA08060	M8 x 60	100	8	50	3	48	80	5.29	4.08
GBGTA08075	M8 x 75	100	8	65	5	48	80	9.29	7.44
GBGTA08090	M8 x 90	100	8	65	20	48	80	9.29	7.44
GBGTA08100	M10 x 100	100	8	65	30	48	80	9.29	7.44
GBGTA08115	M8 x 115	100	8	65	45	48	80	9.29	7.44
GBGTA08120	M8 x 120	100	8	65	50	48	40	9.29	7.44
GBGTA08130	M8 x 130	100	8	65	60	48	60	9.29	7.44
GBGTA08155	M8 x 155	100	10	65	85	48	80	9.29	7.44
GBGTA10070	M10 x 70	100	10	65	3	55	20	9.29	7.44
GBGTA10080	M10 x 80	100	10	60	13	55	20	9.29	7.44
GBGTA10090	M10 x 90	100	10	75	10	55	20	12.67	11.76
GBGTA10100	M10 x 100	100	10	75	20	55	120	12.67	11.76
GBGTA10120	M10 x 120	50	10	75	40	55	120	12.67	11.76
GBGTA10140	M10 x 140	50	10	75	60	55	160	12.67	11.76
GBGTA10150	M10 x 150	50	10	75	70	55	160	12.67	11.76
GBGTA10160	M10 x 160	50	10	75	80	55	165	12.67	11.76
GBGTA10170	M10 x 170	50	10	75	90	55	165	12.67	11.76
GBGTA10230	M10 x 210	50	12	75	100	55	170	17.19	16.48
GBGTA10230	M10 x 230	50	12	85	110	65	170	17.19	16.48
GBGTA12090	M12 x 90	50	12	85	120	65	170	17.19	16.48
GBGTA12100	M12 x 100	130	12	85	120	65	175	17.19	16.48
GBGTA12110	M12 × 110	130	12	85	125	65	175	17.19	16.48
GBGTA12120	M12 × 120	130	12	85	125	65	175	17.19	16.48
GBGTA12130	M12 × 130	130	12	85	125	65	175	17.19	16.48
GBGTA12140	M12 × 140	130	12	85	130	65	175	17.19	16.48

GreenBolt H2 Through Anchor - GBHTA



Specification

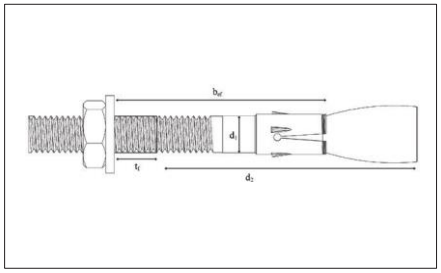
Material	Carbon Steel
Surface	HDG
Corrosion Resistant	Yes (for indoor dry conditions)
Drilling Method	Hammer Drilling, Diamond Drilling
Base Material	Concrete (Uncracked), Grades C20/25 to C50/60
Type of Fastening	Pre-Fastening, Through-Fastening
Reusability	No

Product Definition

A high-load, hot-dip galvanized expansion anchor built on the GreenBolt standard of strength and reliability.Designed for non-cracked concrete, it delivers exceptional corrosion resistance, quick installation, and lasting performance in demanding structural applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBHTA06060	M6 x 60	200	6	55	2	40	7	5.29	4.08
GBHTA06070	M6 x 70	200	6	65	12	40	7	5.29	4.08
GBHTA06080	M6 x 80	200	6	75	22	40	7	5.29	4.08
GBHTA06090	M6 x 90	200	6	85	32	40	7	5.29	4.08
GBHTA06100	M6 x 100	200	6	95	42	40	7	5.29	4.08
GBHTA06110	M6 x 110	200	6	105	52	40	7	5.29	4.08
GBHTA06120	M6 x 120	200	6	115	62	40	7	5.29	4.08
GBHTA06130	M6 x 130	200	6	125	72	40	7	5.29	4.08
GBHTA08060	M8 x 60	100	8	50	3	35	20	9.29	7.44
GBHTA08075	M8 x 75	100	8	65	15	48	20	9.29	7.44
GBHTA08100	M8 x 100	100	8	90	30	48	20	9.29	7.44
GBHTA08130	M8 x 130	100	8	120	60	48	20	9.29	7.44
GBHTA10070	M10 x 70	50	10	60	3	42	35	9.29	7.44
GBHTA10090	M10 x 90	50	10	80	20	55	35	9.29	7.44
GBHTA10140	M10 x 140	50	10	130	60	55	35	9.29	7.44
GBHTA12090	M12 x 90	25	12	70	13	50	60	12.67	11.76
GBHTA12100	M12 x 100	25	12	85	28	65	60	12.67	11.76
GBHTA12160	M12 x 160	25	12	145	68	65	60	12.67	11.76
GBHTA14120	M14 x 120	20	14	100	12	75	90	25.25	30.72
GBHTA14220	M14 x 220	20	14	200	112	75	90	25.25	30.72
GBHTA16125	M16 x 125	10	16	110	25	95	110	34.78	45.02
GBHTA16280	M16 x 280	10	16	260	155	95	110	34.78	45.02
GBHTA20170	M20 x 170	5	20	150	40	125	200	34.78	45.02
GB HTA20270	M20 x 270	5	20	250	140	125	200	34.78	45.02

GreenBolt GS Through Anchor - GBGSTA



Specification

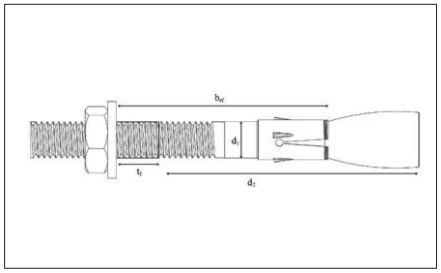
- Material: Carbon Steel
- Surface: Zinc-Plated
- Corrosion Resistant: Yes (suitable for indoor and low-corrosive environments)
- Drilling Method: Hammer Drilling, Diamond Drilling
- Head Configuration: Externally Threaded
- Base Material: Concrete (Uncracked), Grades C20/25 to C50/60
- Type of Fastening: Through-Fastening
- Reusability: Not Reusable (intended for permanent installations)

Product Definition

A mechanical anchor with a galvanized steel shaft, designed for secure fastening through concrete. Its through-bolt design allows direct installation through fixtures, providing strong and reliable anchoring for structural applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBGSTA08050	M8 x 50	100	8	40	2	30	20	2.51	5.39
GBGSTA08075	M8 x 75	100	8	60	9	48	20	5	9.52
GBGSTA08095	M8 x 95	100	8	60	29	48	20	5	9.52
GBGSTA08115	M8 x 115	100	8	60	49	48	20	5.79	9.52
GBGSTA10090	M10 x 90	100	10	75	10	60	40	12	16.24
GBGSTA10105	M10 x 105	50	10	75	25	60	40	12	16.24
GBGSTA10115	M10 x 115	50	10	75	35	60	40	12	16.24
GBGSTA10135	M10 x 135	50	10	75	55	60	40	12	16.24
GBGSTA10165	M10 x 165	50	10	75	85	60	40	12	16.24
GBGSTA10185	M10 x 185	50	10	75	105	60	40	12	16.24
GBGSTA12080	M12 x 80	50	12	65	4	50	60	13.33	23.6
GBGSTA12100	M12 x 100	50	12	85	4	70	60	13.33	23.6
GBGSTA12110	M12 x 110	50	12	85	14	70	60	13.33	23.6
GBGSTA12120	M12 x 120	50	12	85	24	70	60	13.33	23.6
GBGSTA12130	M12 x 130	50	12	85	34	70	60	13.33	23.6
GBGSTA12150	M12 x 150	50	12	85	54	70	60	13.33	23.6
GBGSTA12180	M12 x 180	50	12	85	84	70	60	13.33	23.6
GBGSTA12200	M12 x 200	50	12	85	104	70	60	24	43.65
GBGSTA16145	M16 x 145	25	16	105	28	85	100	24	43.65
GBGSTA16175	M16 x 175	25	16	105	58	85	100	24	43.65
GBGSTA16220	M16 x 220	25	16	105	103	85	100	24	43.65
GBGSTA16250	M16 x 250	25	16	105	133	85	100	32	65.5
GBGSTA20170	M20 x 170	20	20	125	32	100	200	32	65.5
GBGSTA20200	M20 x 200	20	20	125	62	100	200	32	65.5

GreenBolt S2 Through Anchor - GBSTA



Specification

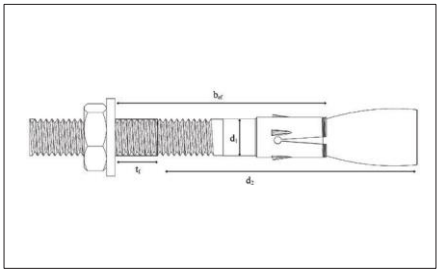
- Material: Stainless Steel A2 (AISI 304)
- Surface: Natural / Passivated Finish
- Corrosion Resistant: Yes – High resistance to corrosion (ideal for damp or mildly aggressive environments)
- Drilling Method: Hammer Drilling, Diamond Drilling
- Head Configuration: Externally Threaded (Hex Head)
- Base Material: Concrete (Uncracked), Grades C20/25 to C50/60
- Type of Fastening: Through-Fastening
- Reusability: Not Reusable (designed for permanent anchoring)

Product Definition

A stainless steel mechanical anchor with both shaft and expansion clip, designed for secure fastening through concrete. Its through-bolt design allows direct installation through fixtures, offering corrosion-resistant, durable, and reliable anchoring for structural and outdoor applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBSTA06045	M6 x 45	200	6	40	1	25	7	6	3
GBSTA06060	M6 x 60	200	6	55	2	40	7	6.01	3.95
GBSTA06080	M6 x 80	200	6	55	22	40	7	6.01	3.95
GBSTA06120	M6 x 120	100	6	55	62	40	7	6.01	3.95
GBSTA06140	M6 x 140	100	6	55	82	40	7	6.01	3.95
GBSTA06160	M6 x 160	100	6	55	102	40	7	6.01	3.95
GBSTA06170	M6 x 170	100	6	55	112	40	7	6.01	3.95
GBSTA06180	M6 x 180	100	6	55	122	40	7	6.01	3.95
GBSTA08050	M8 x 50	100	8	40	4	23	20	8	7.15
GBSTA08075	M8 x 75	100	8	65	5	48	20	8	7.15
GBSTA08090	M8 x 90	100	8	65	20	48	20	8	7.15
GBSTA08115	M8 x 115	100	8	65	45	48	20	8	7.15
GBSTA10070	M10 x 70	100	10	60	3	42	35	8.89	11.45
GBSTA10090	M10 x 90	100	10	75	10	55	35	8.89	11.45
GBSTA10120	M10 x 120	50	10	75	40	55	35	8.89	11.45
GBSTA10150	M10 x 150	50	10	75	70	55	35	8.89	11.45
GBSTA12075	M12 x 75	50	12	60	5	43	60	13.89	16.58
GBSTA12090	M12 x 90	50	12	70	13	50	60	13.89	16.58
GBSTA12110	M12 x 110	50	12	85	18	65	60	13.89	16.58
GBSTA12140	M12 x 140	50	12	85	48	65	60	13.89	16.58
GBSTA16090	M16 x 90	25	16	75	4	49	120	19.44	30.99
GBSTA16145	M16 x 145	25	16	75	23	84	120	19.44	30.99
GBSTA16170	M16 x 170	25	16	75	48	84	120	27.17	48.36
GBSTA20120	M20 x 120	20	20	75	5	71	240	27.17	48.36

GreenBolt M2 Through Anchor - GBMTA



Specification

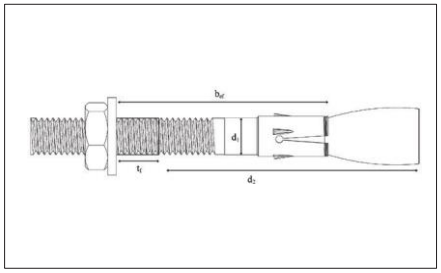
Material	Stainless Steel A4 (AISI 316)
Surface	Natural / Passivated Finish
Corrosion Resistant	Yes – Very high corrosion resistance (suitable for coastal, chemical, or marine environments)
Drilling Method	Hammer Drilling, Diamond Drilling
Head Configuration	Externally Threaded (Hex Head)
Base Material	Concrete (Uncracked), Grades C20/25 to C50/60
Type of Fastening	Through-Fastening
Reusability	Not Reusable (permanent fixing solution)

Product Definition

A mechanical through-anchor made of A4/316 stainless steel for both shaft and clip, providing superior corrosion resistance. Ideal for secure fastening through concrete in highly corrosive or marine environments, with direct installation through fixtures for reliable structural anchorin

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBMTA06045	M6 x 45	200	6	40	1	25	7	4.1	3.95
GBMTA06060	M6 x 60	200	6	55	2	40	7	6.01	3.95
GBMTA06080	M6 x 80	200	6	55	22	40	7	6.01	3.95
GBMTA08050	M8 x 50	100	8	40	4	23	20	6.01	3.95
GBMTA08075	M8 x 75	100	8	65	5	48	20	8	7.17
GBMTA08090	M8 x 90	100	8	65	20	48	20	8	7.17
GBMTA08115	M8 x 115	100	8	65	45	48	20	8	7.17
GBMTA10070	M10 x 70	100	10	60	3	42	20	8.89	11.45
GBMTA10090	M10 x 90	100	10	75	10	55	20	8.89	11.45
GBMTA10120	M10 x 120	50	10	75	40	55	20	8.89	11.45
GBMTA10150	M10 x 150	50	10	75	70	55	20	8.89	11.45
GBMTA12075	M12 x 75	50	12	60	5	43	20	8.89	11.45
GBMTA12090	M12 x 90	50	12	70	13	50	20	8.89	11.45
GBMTA12110	M12 x 110	50	12	85	18	65	20	13.89	16.87
GBMTA12140	M12 x 140	50	12	85	48	65	20	13.89	16.87
GBMTA16090	M16 x 90	25	16	75	4	49	20	13.89	16.87
GBMTA16145	M16 x 145	25	16	110	2	84	20	13.89	30.9
GBMTA16170	M16 x 170	25	16	110	48	84	20	19.44	30.9
GBMTA20170	M20 x 170	20	20	135	23	103	240	19.44	30.9
GBMTA20220	M20 x 220	20	20	135	73	103	240	19.44	30.9

GreenBolt GH Through Anchor - GBGHTA



Specification

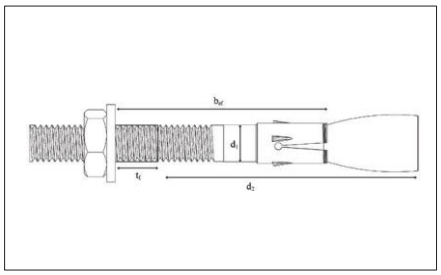
- Material: Carbon Steel (High-grade steel)
- Surface: Zinc-Plated (Min. 5 µm)
- Corrosion Resistant: Moderate – Suitable for dry indoor environments
- Drilling Method: Hammer Drilling, Diamond Drilling
- Head Configuration: Externally Threaded (Hex Head)
- Base Material: Concrete (Uncracked), Grades C20/25 to C50/60
- Type of Fastening: Through-Fastening
- Reusability: Not Reusable (designed for permanent fixings)

Product Definition

A mechanical through-anchor with a galvanized steel shaft and hot-dip galvanized expansion clip, designed for secure fastening through concrete. Its through-bolt design allows direct installation through fixtures, offering enhanced corrosion resistance for structural applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size	Drill Ø	Drill Hole	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBGHTA08050	M8 x 50	100	8	40	2	30	15	2.51	8.08
GBGHTA08075	M8 x 75	100	8	60	9	48	15	5.56	9.52
GBGHTA08080	M8 x 80	100	8	60	14	48	15	5.56	9.52
GBGHTA08095	M8 x 95	100	8	60	29	48	15	5.56	9.52
GBGHTA08115	M8 x 115	100	8	60	49	48	15	5.56	9.52
GBGHTA10090	M10 x 90	100	10	75	10	60	40	12	16.24
GBGHTA10105	M10 x 105	50	10	75	25	60	40	12	16.24
GBGHTA10115	M10 x 115	50	10	75	35	60	40	12	16.24
GBGHTA10135	M10 x 135	50	10	75	55	60	40	12	16.24
GBGHTA10165	M10 x 165	50	10	75	85	60	40	12	16.24
GBGHTA10185	M10 x 185	50	10	75	105	60	40	12	16.24
GBGHTA12080	M12 x 80	50	12	65	4	50	60	18.67	23.6
GBGHTA12100	M12 x 100	50	12	85	4	70	60	18.67	23.6
GBGHTA12110	M12 x 110	50	12	85	14	70	60	18.67	23.6
GBGHTA12120	M12 x 120	50	12	85	24	70	60	18.67	23.6
GBGHTA12130	M12 x 130	50	12	85	34	70	60	18.67	23.6
GBGHTA12150	M12 x 150	50	12	85	54	70	60	18.67	23.6
GBGHTA12180	M12 x 180	50	12	85	84	70	60	18.67	23.6
GBGHTA12200	M12 x 200	50	12	85	104	70	60	18.67	23.6
GBGHTA12220	M12 x 220	25	12	85	124	70	60	18.67	23.6

GreenBolt HS Through Anchor - GBHSTA



Specification

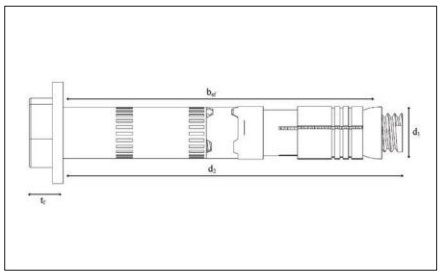
Material	Carbon Steel (High-grade steel)
Surface	Hot-Dip Galvanized
Corrosion Resistant	High – Suitable for outdoor or humid environments
Drilling Method	Hammer Drilling, Diamond Drilling
Head Configuration	Externally Threaded (Hex Head)
Base Material	Concrete (Uncracked), Grades C20/25 to C50/60
Type of Fastening	Through-Fastening
Reusability	Not Reusable (intended for permanent installations)

Product Definition

A mechanical through-anchor with a hot-dip galvanized (HDG) steel shaft and stainless steel expansion clip, designed for secure fastening through concrete. Its through-bolt design ensures direct installation through fixtures, offering corrosion-resistant and durable anchoring for structural applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBHSTA06060	M6 x 60	200	6	50	10	40	7	3.33	4.83
GBHSTA06070	M6 x 70	200	6	50	20	40	7	3.33	4.83
GBHSTA06100	M6 x 100	200	6	50	50	40	7	3.33	4.83
GBHSTA08050	M8 x 50	100	8	40	2	30	15	4.51	5.39
GBHSTA08060	M8 x 60	100	8	40	12	30	15	4.51	5.39
GBHSTA08075	M8 x 75	100	8	60	9	48	15	5.56	9.52
GBHSTA08095	M8 x 95	100	8	60	29	48	15	5.56	9.52
GBHSTA08115	M8 x 115	100	8	60	49	48	15	5.56	16.24
GBHSTA10070	M10 x 70	100	10	60	5	45	40	12	16.24
GBHSTA10090	M10 x 90	100	10	75	10	60	40	12	16.24
GBHSTA10105	M10 x 105	50	10	75	25	60	40	12	23.19
GBHSTA10115	M10 x 115	50	10	75	35	60	40	12	23
GBHSTA10135	M10 x 135	50	10	75	55	60	40	12	23.19
GBHSTA10165	M10 x 165	50	10	75	85	60	40	12	23
GBHSTA10185	M10 x 185	50	10	75	105	60	40	12	23
GBHSTA12080	M12 x 80	50	12	65	4	50	60	18	23
GBHSTA12110	M12 x 110	50	12	85	14	70	60	18	23
GBHSTA12130	M12 x 130	50	12	85	34	70	60	18	23
GBHSTA12150	M12 x 150	50	12	85	54	70	60	18	23
GBHSTA12200	M12 x 200	50	12	85	104	70	60	18	23

GreenBolt EnduraPrime Sleeve Anchor - GBEPSA



Specification

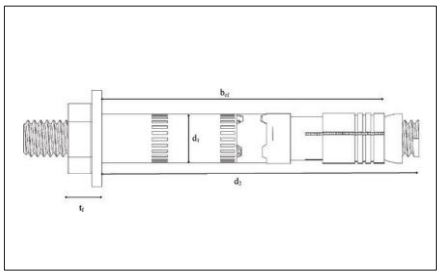
Material	Carbon Steel (Heat-treated)
Surface	Zinc Plated or Hot-Dip Galvanized
Corrosion Resistant	Moderate to High (suitable for dry or mildly humid environments)
Drilling Method	Hammer Drilling
Head Configuration	Hexagonal Head (External thread)
Base Material	Concrete (Uncracked), Solid Masonry
Type of Fastening	Through-Fastening
Reusability	Not Reusable (single-use mechanical expansion anchor)

Product Definition

A heavy-duty sleeve anchor designed for high-performance fastening in concrete. Its robust design ensures secure, reliable anchoring for demanding structural and industrial applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBEPSA10070	M6 x 70	50	10	70	10	50	30	10	11.6
GBEPSA10080	M6 x 80	50	10	70	20	50	30	10	11.6
GBEPSA10100	M6 x 100	50	10	70	40	50	30	10	11.6
GBEPSA10110	M6 x 110	25	10	70	50	50	30	10	26.4
GBEPSA12080	M8 x 80	50	12	85	5	60	30	13.3	26.4
GBEPSA12090	M8 x 90	50	12	85	15	60	30	13.3	26.4
GBEPSA12100	M8 x 100	50	12	85	25	60	30	14.6	38.41
GBEPSA12120	M8 x 120	25	12	85	45	60	30	15.3	38.41
GBEPSA16100			16	95	15	70	50	19.2	38.4
GBEPSA16120	M10 x 120	25	16	95	35	70	50	19	51
GBEPSA16140	M10 x 140	20	16	95	55	70	50	21	51
GBEPSA16160	M10 x 160	20	16	95	75	70	50	25.7	51
GBEPSA18110	M12 x 110	20	18	110	10	85	80	25.7	51
GBEPSA18120	M12 x 120	20	18	110	20	85	80	25.7	51
GBEPSA18140	M12 x 140	20	18	110	40	85	80	27.3	65
GBEPSA18150	M12 x 150	20	18	110	50	85	80	27.3	65
GBEPSA18170	M12 x 170	15	24	110	70	100	80	27.3	65
GBEPSA18200	M12 x 200	15	24	110	100	100	80	27.3	65
GBEPSA24140	M16 x 140	10	24	130	20	100	160	38	91
GBEPSA24170	M16 x 170	10	24	130	50	100	160	38	91

GreenBolt EnduraApex Sleeve Anchor - GBEXSA



Specification

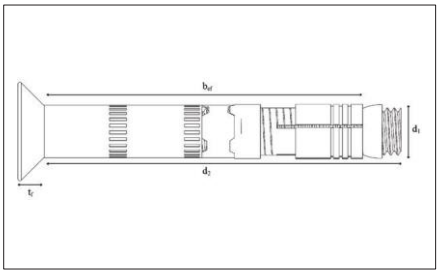
Material	Carbon Steel (high-strength grade)
Surface	Zinc Plated or Hot-Dip Galvanized
Corrosion Resistant	Moderate (Zinc-Plated) or High (HDG) – depending on coating
Drilling Method	Hammer Drilling
Head Configuration	External Threaded Stud
Base Material	Non-cracked Concrete, Solid Brick, Natural Stone
Type of Fastening	Pre-Fastening and Through-Fastening
Reusability	Not Reusable (expansion-based mechanical fixation)

Product Definition

A heavy-duty sleeve anchor engineered for high-load applications in concrete. Its robust design ensures maximum holding power, providing secure and reliable anchoring for demanding structural and industrial projects.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size	Drill Ø	Drill Hole	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBEXSA12095	M8 x 95	50	12	85	20	60	30	13	27
GBEXSA12155	M8 x 155	25	16	85	80	60	30	14	29
GBEXSA16125	M10 x 125	25	16	95	40	70	50	19	39
GBEXSA16160	M10 x 160	20	16	95	75	70	50	20	40
GBEXSA16245	M10 x 245	10	18	95	160	70	50	22	43
GBEXSA18150	M12 x 150	20	18	110	50	85	80	26	52
GBEXSA18170	M12 x 170	15	18	110	70	85	80	27	53
GBEXSA18260	M12 x 260	5	24	110	160	85	80	28	56
GBEXSA24145	M16 x 145	10	24	130	25	100	160	29	66
GBEXSA24170	M16 x 170	10	24	130	50	100	160	28	69
GBEXSA24200	M16 x 200	10	24	130	80	100	160	30	72
GBEXSA24280	M16 x 280	5	28	130	160	100	160	32	75
GBEXSA28210	M20 x 210	5	28	160	60	125	240	38	92
GBEXSA28230	M20 x 230	5	28	160	80	125	240	40	95
GBEXSA28310	M20 x 310	5	28	160	160	125	240	42	99

GreenBolt EnduraFlush Sleeve Anchor - GBEFSA



Specification

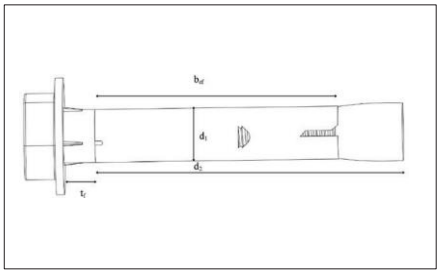
- Material: Carbon Steel (high-strength grade)
- Surface: Zinc Plated or Hot-Dip Galvanized
- Corrosion Resistant: Moderate (Zinc-Plated) or High (HDG) – depending on coating
- Drilling Method: Hammer Drilling
- Head Configuration: Countersunk Head (flush finish for aesthetic/clearance applications)
- Base Material: Non-cracked Concrete, Solid Masonry, Stone
- Type of Fastening: Pre-Fastening and Through-Fastening
- Reusability: Not Reusable (mechanical expansion remains fixed in concrete)

Product Definition

A galvanized sleeve anchor designed for high-load, high-performance applications in concrete. Its countersunk design ensures secure fastening and reliable structural anchoring.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size	Drill Ø	Drill Hole	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBEFSA10070	M6 x 70	50	10	70	10	50	15	13.3	26
GBEFSA10080	M6 x 80	50	10	70	20	50	15	13.3	26
GBEFSA10100	M6 x 100	50	10	70	40	50	15	19.21	26
GBEFSA12100	M8 x 100	50	12	85	25	60	30	19.21	38
GBEFSA16100	M10 x 100	25	16	95	15	70	50	25	38
GBEFSA16120	M10 x 120	25	16	95	35	70	50	25	51
GBEFSA18120	M12 x 120	20	18	110	20	85	80	29	51

Greenbolt HexLock Sleeve Anchor - GBHSA



Specification

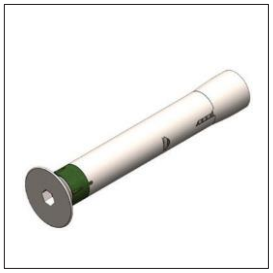
Material	Carbon Steel
Surface	Zinc Plated (minimum 5 µm)
Corrosion Resistant	Moderate (for indoor or dry conditions)
Drilling Method	Hammer Drilling
Head Configuration	Hexagonal Head Screw
Base Material	Solid Concrete, Solid Brick, Dense Natural Stone
Type of Fastening	Pre-Fastening
Reusability	Not Reusable (deforms upon installation for expansion)

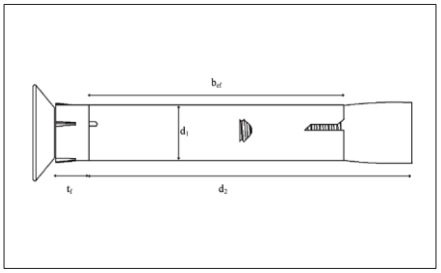
Product Definition

A medium-duty sleeve anchor designed for use in solid materials. It operates via torque-controlled mechanical expansion, ensuring secure and reliable fastening in structural applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBHSA08C	M6 x 45	200	8	45	5	30	10	3.67	4.82
GBHSA08L	M6 x 60	200	8	45	20	30	10	3.67	4.82
GBHSA09C	M6 x 45	200	9	45	5	30	10	3.67	4.82
GBHSA09L	M6 x 60	200	9	45	20	30	10	3.67	8.3
GBHSA10C	M8 x 60	100	10	60	5	40	20	6.67	8.3
GBHSA10L	M8 x 80	100	10	60	27	40	20	6.67	8.3
GBHSA11C	M8 x 60	100	11	60	5	40	20	6.67	10.91
GBHSA11L	M8 x 80	100	11	60	27	40	20	6.67	10.91
GBHSA12C	M10 x 70	100	12	75	5	48	35	9.09	10.91
GBHSA12L	M10 x 100	50	12	75	38	48	35	9.09	10.91
GBHSA14C	M10 x 70	100	14	75	5	48	35	9.09	10.91
GBHSA14L	M10 x 100	50	14	75	32	48	35	9.09	13.38
GBHSA16C	M12 x 80	50	16	80	5	55	50	11.15	13.38
GBHSA16L	M12 x 110	50	16	80	37	55	50	11.15	37.68
GBHSA20C	M16 x 110	25	20	105	15	72	140	20.06	37.68
GBHSA25C	M20 x 130	15	25	130	25	80	240	20.06	46

Greenbolt Flush Sleeve Anchor - GBFSA





Specification

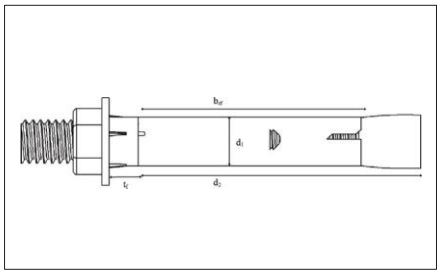
- Material: Stainless Steel A2 (AISI 304)
- Surface: Natural stainless finish
- Corrosion Resistant: High (suitable for outdoor and damp environments)
- Drilling Method: Hammer Drilling
- Head Configuration: Hexagonal Head Screw
- Base Material: Concrete, Solid Brick, Natural Stone
- Type of Fastening: Pre-Fastening
- Reusability: Not Reusable (expansion causes permanent deformation)
- Special Feature: Anti-Spin Sleeve to prevent rotation during installation

Product Definition

A medium-duty sleeve anchor for solid materials, including reinforced concrete, concrete, brick, and stone. It works through torque-controlled mechanical expansion and is ideal for applications such as air conditioning units, aerials, street furniture, and railings.fastening through pre-drilled holes in concrete. The through-bolt design allows installation directly through the fixture.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBFSA08C	M6 x 45	100	8	45	5	30	10	3.67	5.3
GBFSA08L	M6 x 60	100	8	45	20	30	10	3.67	5.3
GBFSA10C	M8 x 60	100	10	60	5	40	20	6.67	8.3
GBFSA10L	M8 x 80	100	10	60	27	40	20	6.67	8.3
GBFSA12C	M10 x 70	50	12	75	5	48	35	9	10.9
GBFSA12L	M10 x 100	50	12	75	32	48	35	9	10.9

Greenbolt FlangeNut Sleeve Anchor - GBNSA



Specification

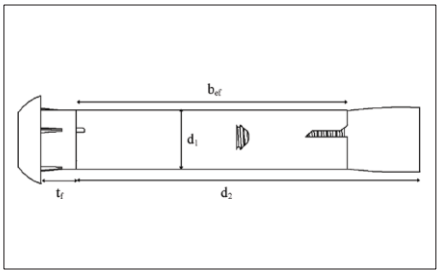
- Material: Carbon Steel
- Surface: Zinc-Plated (min. 5 µm)
- Corrosion Resistant: Yes (for indoor dry conditions)
- Head Configuration: Hexagonal Head Screw
- Drilling Method: Hammer Drilling
- Base Material: Solid Concrete, Solid Brick, Dense Natural Stone
- Type of Fastening: Pre-Fastening
- Reusability: Not Reusable (deforms upon installation for expansion)

Product Definition

A medium-duty sleeve anchor for solid materials, including reinforced concrete, concrete, brick, and stone. It works through torque-controlled mechanical expansion and is ideal for applications such as air conditioning units, aerials, street furniture, and railings.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBNSA06060	M6 x 60	200	8	45	5	30	10	3.67	2.98
GBNSA06070	M6 x 70	200	9	45	5	30	10	3.67	2.98
GBNSA06080	M6 x 80	100	10	60	5	40	20	6.67	5.27
GBNSA06090	M6 x 90	100	10	60	27	40	20	6.67	5.27
GBNSA06100	M6 x 100	100	11	60	5	40	20	6.67	5.27
GBNSA06110	M6 x 110	100	11	60	27	40	20	6.67	5.27
GBNSA06120	M6 x 120	100	12	75	5	48	35	9.09	8.35
GBNSA06130	M6 x 130	100	12	75	32	48	35	9.09	8.35
GBNSA06140	M6 x 140	100	14	75	5	48	35	9.09	8.35
GBNSA06150	M6 x 150	100	6	75	32	48	35	9.09	8.35

Greenbolt Dome Sleeve Anchor - GBDSA



Specification

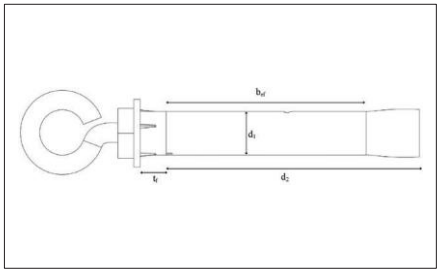
- Material: Carbon Steel
- Surface: Zinc-Plated (min. 5 µm)
- Corrosion Resistant: Medium (indoor & dry outdoor environments)
- Head Configuration: Tamperproof Head (e.g. pin-in torx)
- Drilling Method: Hammer Drilling
- Base Material: Concrete, Solid Brick, Natural Stone
- Type of Fastening: Pre-Fastening
- Reusability: Not Reusable (expansion causes permanent deformation)

Product Definition

A medium-duty tamper-proof anchor for solid materials, using torque-controlled expansion with anti-spin, ideal for air conditioning units, aerials, street furniture, and railings.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBDSA08C	M6 x 45	100	8	45	5	30	10	3.67	3.01
GBDSA08L	M6 x 60	100	8	45	20	30	10	3.67	3.01
GBDSA10C	M8 x 60	100	10	60	5	40	20	6.67	5.48
GBDSA10L	M8 x 80	100	10	60	27	40	20	6.67	5.48

Greenbolt Talon Sleeve Anchor - GBTSA



Specification

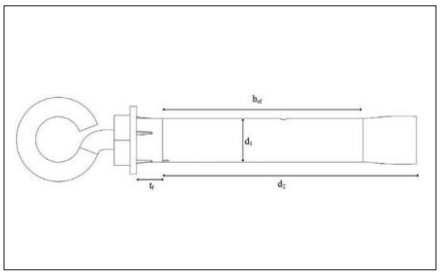
Material	Carbon Steel
Surface	Zinc-Plated (min. 5 µm)
Corrosion Resistant	Medium (suitable for indoor and dry environments)
Head Configuration	Hook Bolt Head
Drilling Method	Hammer Drilling
Base Material	Uncracked Concrete, Solid Brick, Natural Stone
Type of Fastening	Pre-Fastening
Reusability	Not Reusable (due to sleeve deformation on expansion)
Special Features	Anti-spin sleeve ensures stability during installation; ideal for suspensions

Product Definition

Sleeve anchor with hook bolt for medium loads in solid materials. Incorporates anti-rotation to prevent the anchor from rotating during tightening. Mechanical expansion anchor and installation by controlled torque. Manufactured in zinc-coated steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBTSA08C	M6 x 45	100	8	45	-	35	10	1.5	-
GBTSA09C	M6 x 45	100	9	45	-	35	10	1.5	-
GBTSA10C	M8 x 60	100	10	60	-	45	20	2	-
GBTSA11C	M8 x 60	100	11	60	-	45	20	2	-
GBTSA12C	M10 x 70	50	12	75	-	53	35	3	-
GBTSA14C	M10 x 70	50	14	75	-	53	35	3	-
GBTSA16C	M12 x 80	25	16	80	-	60	50	4	-

Greenbolt OpenEye Sleeve Anchor - GBOSA



Specification

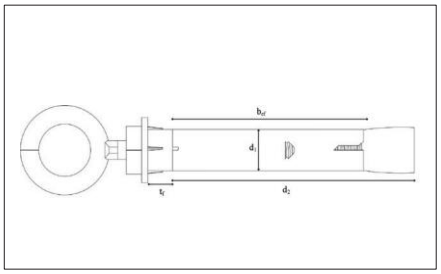
- Material: Carbon Steel
- Surface: Zinc-Plated (min. 5 µm)
- Corrosion Resistant: Medium (suitable for indoor and dry environments)
- Head Configuration: Eye Bolt Head
- Drilling Method: Hammer Drilling
- Base Material: Uncracked Concrete, Solid Masonry, Natural Stone
- Type of Fastening: Pre-Fastening
- Reusability: Not Reusable (sleeve deforms during expansion)
- Special Features: Anti-spin sleeve prevents rotation during tightening; ideal for hanging systems

Product Definition

A medium-duty sleeve anchor for solid materials, offering enhanced corrosion protection. Ideal for secure installation of marquees and signs.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBOSA08C	M6 x 45	100	8	45	-	35	10	1	-
GBOSA09C	M6 x 45	100	9	45	-	35	10	1	-
GBOSA10C	M8 x 60	100	10	60	-	45	20	2	-
GBOSA11C	M8 x 60	100	11	60	-	45	20	2	-
GBOSA12C	M10 x 70	50	12	75	-	53	35	3	-
GBOSA14C	M10 x 70	50	14	75	-	53	35	3	-
GBOSA16C	M12 x 80	25	16	80	-	60	50	4	-

Greenbolt LockEye Sleeve Anchor - GBLSA



Specification

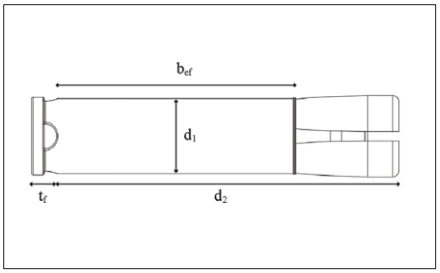
Material	Carbon Steel (High Tensile Grade)
Surface	Zinc-Plated (min. 5 µm)
Corrosion Resistant	Medium (suitable for indoor and dry environments)
Head Configuration	Forged Eye Bolt
Drilling Method	Hammer Drilling
Base Material	Uncracked Concrete, Dense Natural Stone, Solid Brick Masonry
Type of Fastening	Pre-Fastening
Reusability	Not Reusable (deformation occurs during expansion)
Special Features	Anti-spin sleeve ensures secure tightening, forged eye provides heavy load capacity and safer lifting applications

Product Definition

A medium-duty sleeve anchor with a forged ring for solid materials. It uses torque-controlled mechanical expansion with anti-rotation, ideal for secure cable installation.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBLSA08C	M6 x 45	100	8	45	-	35	10	2.8	-
GBLSA10C	M8 x 60	100	10	60	-	45	20	6.67	-
GBLSA12C	M10 x 70	50	12	75	-	53	35	9.09	-

GreenBolt ShieldFix - GBSF



Specification

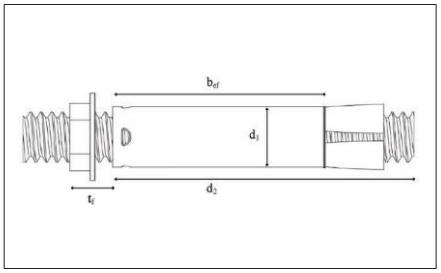
- Material: Carbon Steel(Body & Expansion Shield)
- Surface: Zinc-Plated (min. 5 µm)
- Corrosion Resistant: Medium – Suitable for dry indoor environments
- Head Configuration: Hexagonal Bolt (based on application)
- Drilling Method: Hammer Drilling
- Base Material: Solid Concrete, Dense Natural Stone, Solid Brick
- Type of Fastening: Pre-Fastening or Through-Fastening
- Reusability: Not Reusable

Product Definition

Expansion anchor with shield, designed for high loads. Use in uncracked concrete and other solid materials. Torque-controlled installation. Manufactured from zinc plated steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBSF06	M6 x 40	50	10	45	-	-	40	1.27	4.82
GBSF08	M8 x 50	50	14	60	-	-	60	1.34	8.78
GBSF10	M10 x 60	50	16	70	-	-	80	6.06	13.92
GBSF12	M12 x 80	25	20	90	-	-	100	7.85	20.23
GBSF16	M16 x 100	10	25	110	-	-	120	9.59	37.68

GreenBolt ShieldFix with Projecting Bolt - GBSFPB



Specification

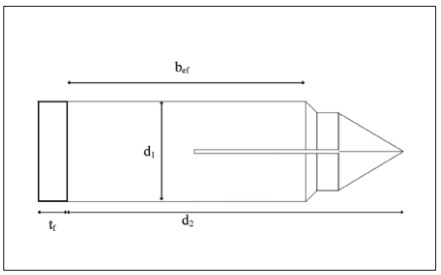
- Material: Carbon Steel(Body & Expansion Shield)
- Surface: Zinc-Plated (min. 5 µm)
- Corrosion Resistant: Medium – Suitable for dry indoor environments
- Head Configuration: Projecting Hexagonal Bolt
- Drilling Method: Hammer Drilling
- Base Material: Solid Brick, Concrete, Natural Stone
- Type of Fastening: Pre-Fastening
- Reusability: Not Reusable
- Special Features: Winged design provides improved grip in hollow and solid materials

Product Definition

Anchor with projecting bolt for fixing high load-bearing elements in uncracked concrete and other solid materials. Operates by controlled torque expansion. Made of zinc-plated steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBSFPB06	M6 x 40	50	10	45	8	-	40	1.27	3.38
GBSFPB08	M8 x 50	50	14	60	8	-	60	1.35	6.16
GBSFPB10	M10 x 60	50	16	70	8	-	80	6.06	9.76
GBSFPB12	M12 x 80	25	20	90	18	-	100	7.85	14.76

Greenbolt HitFix Drop-In Anchor - GBHFGA



Specification

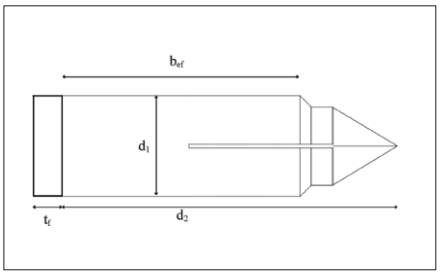
- Material: Carbon Steel
- Surface: Galvanized finish
- Corrosion Resistant: Yes, corrosion-protected by galvanization
- Head Configuration: Internal expansion (drop-in) design, flush after installation
- Drilling Method: Hammer Drilling
- Base Material: Solid Concrete
- Type of Fastening: Mechanical expansion anchor
- Reusability: Permanent; not reusable once set
- Installation Type: Setting tool required for torque-controlled expansion
- Applications: Medium to high-load fastening in solid concrete for structural and mechanical elements

Product Definition

A galvanized drop-in anchor designed for secure fastening into pre-drilled concrete holes. Its internal expansion mechanism provides reliable, flush installation for versatile structural applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBHFGA06	M6 x 25	100	8	27	25	25	4	3.42	4.1
GBHFGA08	M8 x 30	100	10	33	30	30	11	4.49	5.39
GBHFGA10	M10 x 40	50	12	43	40	40	17	5.93	7.28
GBHFGA12	M12 x 50	50	15	54	50	50	38	8.28	11.6
GBHFGA12D	M12 x 50	50	16	54	50	50	38	12.28	26
GBHFGA16	M16 x 65	25	20	70	65	65	60	16.76	38
GBHFGA20	M20 x 80	25	25	86	80	80	100	20.25	45.6

Greenbolt HitFix Drop-In Anchor - A4 - GBHFMA



Specification

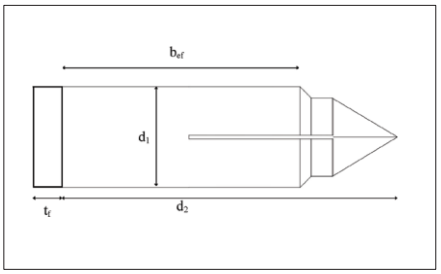
Material	Stainless Steel A4 (AISI 316)
Surface	Natural – Stainless
Corrosion Resistant	High – Suitable for outdoor and marine environments
Head Configuration	Internal Metric Thread (Flush Head)
Drilling Method	Hammer Drilling
Base Material	Non-Cracked Concrete (C20/25 to C50/60)
Type of Fastening	Pre-Fastening (expansion via setting)
Reusability	Reusable (in some applications, based on condition and load requirements)
Special Features	Excellent durability in aggressive or humid environments
Applications	Excellent durability in aggressive or humid environments

Product Definition

A stainless steel (A4) drop-in anchor designed for secure fastening into concrete. Its internal expansion provides flush installation with high corrosion resistance, ideal for structural and outdoor applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBHFMA06	M6 x 25	100	8	27	25	25	4	1.19	4.1
GBHFMA08	M8 x 30	100	10	33	30	30	11	1.67	5.39
GBHFMA10	M10 x 40	50	12	43	40	40	17	1.67	7.28
GBHFMA12	M12 x 50	50	15	54	50	50	38	3.1	11.6
GBHFMA16	M16 x 65	25	20	70	65	65	60	5.95	26
GBHFMA20	M20 x 80	25	25	86	80	80	100	7.84	38

Greenbolt HitFix Drop-In Anchor - HDG - GBHFHA



Specification

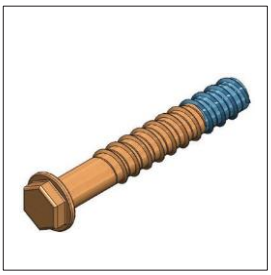
Material	Carbon steel
Surface	Hot-dip galvanized (HDG) finish
Corrosion Resistant	Yes, high resistance due to galvanization
Head Configuration	Internal expansion (drop-in) design
Drilling Method	Pre-drilled hole in concrete
Base Material	Solid concrete
Type of Fastening	Mechanical expansion anchor
Reusability	Permanent; not reusable once set
Installation Type	Setting tool required for torque-controlled expansion
Applications	Medium to high-load fastening in solid concrete for structural and mechanical elements

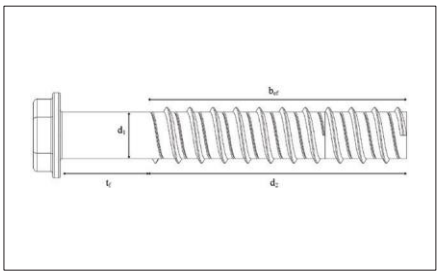
Product Definition

A hot-dip galvanized drop-in anchor designed for secure fastening in concrete, reinforced concrete, or stone. Its internal expansion ensures reliable installation while offering enhanced corrosion protection for long-lasting structural performance.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBHFHA08	M8 x 30	100	10	33	30	30	11	4.49	5.39
GBHFHA10	M10 x 40	50	12	43	40	40	17	5.93	7.28
GBHFHA12	M12 x 50	50	15	54	50	50	38	8.28	11.6
GBHFHA16	M16 x 65	25	20	70	65	65	60	12.23	26

GreenBolt CutFix Flange Concrete Screw - A4 - GBCFMS





Specification

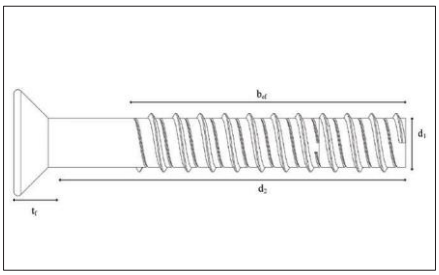
Material	A4 Stainless Steel
Surface	Natural stainless steel finish
Corrosion Resistant	Yes, highly resistant due to A4 stainless steel
Head Configuration	Flange head with stud
Drilling Method	Direct fixing into pre-drilled
Base Material	Cracked and non-cracked concrete
Type of Fastening	Direct mechanical fixing
Reusability	Removable and reusable
Installation Type	Torque-controlled installation, direct fixing
Applications	High-load fastening of structural or heavy elements in concrete

Product Definition

High-performance direct fixing screw with hex head, designed for secure fastening of heavy elements in both cracked and non-cracked concrete. Features a removable, reusable design with bimetal technology combining an A4 stainless steel body and a hardened carbon steel tip for strength and durability.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCFMS06040	M6 x 40	100	6	45	5	35	10	-	7.03
GBCFMS06060	M6 x 60	100	6	65	5	55	10	6.67	11.72
GBCFMS08070	M8 x 70	50	8	75	5	65	20	9.81	11.72
GBCFMS08080	M8 x 80	25	8	75	15	65	20	9.81	11.72
GBCFMS08090	M8 x 90	25	8	75	25	65	20	9.81	11.72
GBCFMS08105	M8 x 105	25	8	75	40	65	20	9.81	11.72
GBCFMS10070	M10 x 70	50	10	65	15	55	30	12	16.04
GBCFMS10090	M10 x 90	25	10	95	5	85	30	14.99	27.87
GBCFMS10100	M10 x 100	25	10	95	15	85	30	14.99	27.87
GBCFMS10120	M10 x 120	25	10	95	35	85	30	14.99	27.87
GBCFMS12080	M12 x 80	25	12	90	5	75	50	25	27.87
GBCFMS12110	M12 x 110	25	12	120	5	105	50	25	27.87

GreenBolt CutFix CSK Concrete Screw - A4 - GBCKMS



Specification

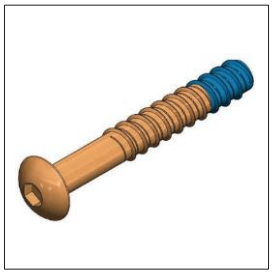
- Material: A4 Stainless Steel
- Surface: Natural stainless steel finish
- Corrosion Resistant: Yes, highly resistant due to A4 stainless steel
- Head Configuration: Countersunk (CSK) head with stud
- Drilling Method: Direct fixing into pre-drilled
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Installation Type: Torque-controlled installation, direct fixing
- Applications: High-load fastening of structural or heavy elements in concrete

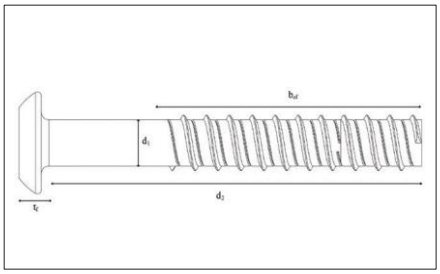
Product Definition

Direct fixing screw with countersunk head for flush installations in cracked or non-cracked concrete. Designed for heavy-load applications, it is removable, reusable, and built with bimetal technology combining an A4 stainless steel body and hardened carbon steel tip for durability and strength.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCKMS08060	M8 x 60	50	8	60	10	50	20	6.67	9.01
GBCKMS08080	M8 x 80	25	8	75	15	65	20	9.81	11.72
GBCKMS08120	M8 x 120	25	8	75	55	65	20	9.81	11.72
GBCKMS10070	M10 x 70	50	10	65	15	55	30	9.81	16.04
GBCKMS10090	M10 x 90	25	10	95	5	85	30	14.99	19.25
GBCKMS10120	M10 x 120	25	10	95	35	85	30	14.99	19.25

GreenBolt CutFix Truss Concrete Screw - A4 - GBCTMS





Specification

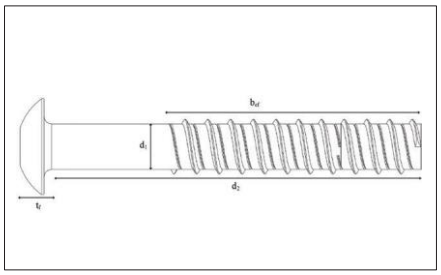
- Material: A4 Stainless Steel
- Surface: Natural stainless steel finish
- Corrosion Resistant: Yes, highly resistant due to A4 stainless steel
- Head Configuration: Truss head with stud
- Drilling Method: Direct fixing into pre-drilled
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Installation Type: Torque-controlled installation, direct fixing
- Applications: High-load fastening of structural or heavy elements in concrete

Product Definition

Direct fixing screw with truss head for heavy-load fastening in cracked and non-cracked concrete. Removable, reusable, and designed for flush installation. Made with bimetal technology: durable A4 stainless steel body and hardened carbon steel tip.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCTMS06040	M6 x 40	50	6	45	5	35	10	7.03	5.5
GBCTMS06050	M6 x 50	50	6	45	15	35	10	12	5.5
GBCTMS06060	M8 x 60	50	8	65	5	35	10	12	5.5

GreenBolt CutFix Pan Concrete Screw - A4 - GBCPMS



Specification

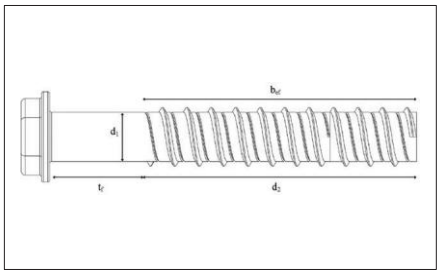
- Material: A4 Stainless Steel
- Surface: Natural stainless steel finish
- Corrosion Resistant: Yes, highly resistant due to A4 stainless steel
- Head Configuration: Truss head with stud
- Drilling Method: Direct fixing into pre-drilled
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Installation Type: Torque-controlled installation, direct fixing
- Applications: High-load fastening of structural or heavy elements in concrete

Product Definition

Direct fixing screw with pan head for high-load applications in cracked or non-cracked concrete. Designed for flush installation, it is removable, reusable, and built with bimetal technology combining an A4 stainless steel body and hardened carbon steel tip for maximum strength and durability.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCPMS06050	M6 x 50	50	6	45	15	35	10	7.03	5.5
GBCPMS06060	M6 x 60	50	6	65	5	55	10	12	5.5
GBCPMS06080	M6 x 80	50	6	65	25	55	10	12	5.5
GBCPMS06100	M6 x 100	50	6	65	45	55	10	12	5.5
GBCPMS08060	M8 x 60	25	8	60	10	50	20	12	5.5
GBCPMS08080	M8 x 80	25	8	75	15	65	20	17.67	10

GreenBolt AquaFix Flange Concrete Screw - A4 - GBAFMS



Specification

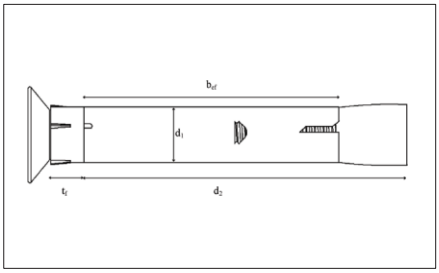
- Material: Carbon Steel
- Surface: Zinc-Plated (≥ 5 µm)
- Corrosion Resistant: Medium (Indoor or dry outdoor applications)
- Head Configuration: Hexagonal Head
- Drilling Method: Hammer Drilling
- Base Material: Uncracked Concrete (C20 to C50)
- Type of Fastening: Direct Fixing(Screw-in, no expansion)
- Reusability: Non-reusable

Product Definition

A high-strength concrete screw with flange head, engineered for secure fastening without expansion. Manufactured from A4 stainless steel, it delivers superior corrosion resistance, durability, and reliable performance in demanding environments.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBAFMS05040	M5 x 40	100	5	45	5	35	8	-	4.49
GBAFMS05050	M5 x 50	100	5	55	5	45	8	6.79	4.49
GBAFMS05060	M5 x 60	100	5	55	15	45	8	6.79	4.49
GBAFMS05080	M5 x 80	50	5	55	35	45	8	6.79	4.49
GBAFMS05100	M5 x 100	50	5	55	55	45	8	6.79	4.49
GBAFMS06035	M6 x 35	100	6	45	-	35	10	6.79	4.49
GBAFMS06040	M6 x 40	100	6	45	5	35	10	8.35	6.24
GBAFMS06045	M6 x 45	100	6	45	10	35	10	8.35	6.24
GBAFMS06050	M6 x 50	100	6	45	15	35	10	8.35	6.24
GBAFMS06060	M6 x 60	100	6	65	5	55	10	8.35	6.24
GBAFMS0606010	M6 x 60	10	6	65	5	55	10	9.25	8.35
GBAFMS06070	M6 x 70	50	6	65	15	55	10	9.25	6.24
GBAFMS06080	M6 x 80	50	6	65	25	55	10	9.25	6.24
GBAFMS06100	M6 x 100	25	6	65	45	55	10	9.25	6.24

GreenBolt AquaFix CSK Concrete Screw - A4 - GBAKMS



Specification

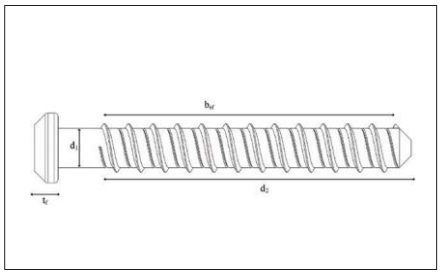
- Material: Carbon Steel
- Surface: Zinc-Plated (≥ 5 µm)
- Corrosion Resistant: Medium (Indoor or dry outdoor applications)
- Head Configuration: Countersunk Flat Head
- Drilling Method: Hammer Drilling
- Base Material: Uncracked Concrete (C20 to C50)
- Type of Fastening: Direct Fixing(Screw-in, no expansion)
- Reusability: Non-reusable
- ETA Assessment: Generally available
- Installation Method: Drive in using suitable driver

Product Definition

A countersunk-head concrete screw designed for flush fastening in solid substrates. Made from A4 stainless steel, it ensures exceptional corrosion resistance, high load capacity, and long-lasting reliability without the need for expansion.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBAKMS05040	M5 x 40	100	5	45	5	35	8	-	3.13
GBAKMS05060	M5 x 60	100	5	55	15	45	8	6.79	4.47
GBAKMS05080	M5 x 80	50	5	55	35	45	8	6.79	4.47
GBAKMS05100	M5 x 100	50	5	55	55	45	8	6.79	4.47
GBAKMS06045	M6 x 45	100	6	55	10	35	10	8	6.24
GBAKMS06050	M6 x 50	100	6	45	15	35	10	8	6.24
GBAKMS06060	M6 x 60	100	6	45	5	55	10	8	6.24
GBAKMS06080	M6 x 80	100	6	45	25	55	10	9.25	8.35
GBAKMS06100	M6 x 100	100	6	45	45	55	10	9.25	8.35
GBAKMS06120	M6 x 120	100	6	65	65	55	10	9.25	8.35
GBAKMS06140	M6 x 140	100	6	65	85	55	10	9.25	8.35
GBAKMS08060	M8 x 60	50	8	65	10	50	20	9.25	8.35
GBAKMS08080	M8 x 80	25	8	65	15	65	20	12.5	10.34
GBAKMS08100	M8 x 100	25	8	65	35	65	20	12.5	10.34
GBAKMS08120	M8 x 120	25	8	65	55	65	20	12.5	10.34
GBAKMS10100	M10 x 100	25	10	65	15	85	30	15.25	12.52
GBAKMS10120	M10 x 120	25	10	65	35	85	30	15.25	12.52

GreenBolt AquaFix Pan Concrete Screw - A4 - GBAPMS



Specification

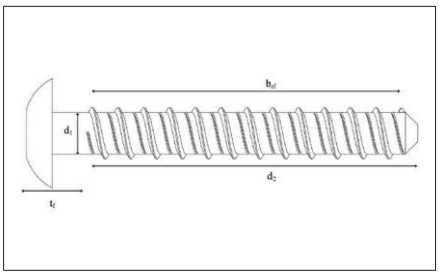
- Material: Carbon Steel
- Surface: Zinc-Plated (≥ 5 µm)
- Corrosion Resistant: Medium (Indoor or dry outdoor applications)
- Head Configuration: Pan Head (slightly rounded top)
- Drilling Method: Hammer Drilling
- Base Material: Uncracked Concrete (C20 to C50)
- Type of Fastening: Direct Fixing(Screw-in, no expansion)
- Reusability: Non-reusable
- ETA Assessment: Option 1 available for selected sizes
- Installation Method: Screw-in using impact driver

Product Definition

A direct-fixing screw anchor with hexagonal pan head and stud design, suitable for high load-bearing applications in both cracked and non-cracked concrete. Made from A4 stainless steel, it offers excellent corrosion resistance, reliable strength, and is fully removable and reusable.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBAPMS05040	M5 x 40	100	5	45	5	35	8	2.99	3.59
GBAPMS05060	M5 x 60	100	5	55	15	45	8	2.99	3.59
GBAPMS06040	M6 x 40	100	6	45	5	35	10	2.99	3.59
GBAPMS06050	M6 x 50	100	6	45	15	35	10	2.99	3.59
GBAPMS06060	M6 x 60	100	6	65	5	55	10	2.99	3.59
GBAPMS06080	M6 x 80	50	6	65	25	55	10	2.99	3.59
GBAPMS06100	M6 x 100	50	6	65	45	55	10	2.99	3.59
GBAPMS08060	M8 x 60	25	8	60	10	50	20	2.99	3.59
GBAPMS08080	M8 x 80	25	8	75	15	65	20	2.99	3.59

GreenBolt AquaFix Truss Concrete Screw - A4 - GBATMS



Specification

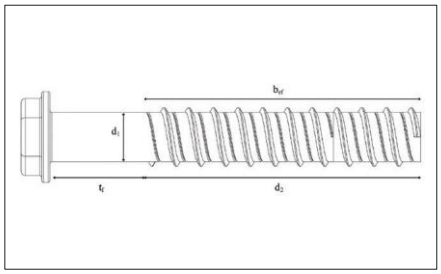
- Material: Carbon Steel
- Surface: Zinc-Plated (≥ 5 µm)
- Corrosion Resistant: Medium (Indoor or dry outdoor applications)
- Head Configuration: Truss Head (low-profile head)
- Drilling Method: Hammer Drilling
- Base Material: Uncracked Concrete (C20 to C50)
- Type of Fastening: Direct Fixing(Screw-in, no expansion)
- Reusability: Non-reusable
- ETA Assessment: Option 1 approved for structural use
- Installation Method: Screw-in using electric/impact driver

Product Definition

A truss-head concrete screw offering wide surface clamping for secure fastening without washers. Crafted from A4 stainless steel, it provides superior corrosion resistance, enhanced strength, and reliable performance, making it ideal for applications where broader load distribution is required.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBATMS06040	M6 x 40	100	6	45	5	35	10	2.99	3.59
GBATMS06050	M6 x 50	100	6	45	15	35	10	2.99	3.59
GBATMS06060	M6 x 60	100	6	65	5	35	10	2.99	3.59

GreenBolt CutFix Flange Concrete Screw - GBCFS



Specification

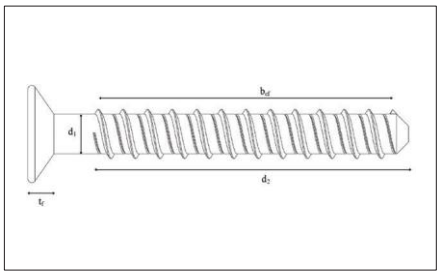
- Material: Zinc-plated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Flange head with stud
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: High-load fastening
- Installation Type: Torque-controlled installation

Product Definition

A high-strength hexagon-head screw anchor for cracked and non-cracked concrete. Engineered for heavy load applications, it ensures secure, removable, and reusable fastening with long-lasting reliability.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCFS05040	M6 x 60	100	5	45	5	35	8	2.99	3.59
GBCFS05050	M6 x 70	100	5	55	5	45	8	2.99	3.59
GBCFS05060	M6 x 80	100	5	55	15	45	8	2.99	3.59
GBCFS05080	M6 x 90	50	5	55	35	45	8	2.99	3.59
GBCFS05100	M6 x 100	50	5	55	55	45	8	2.99	3.59
GBCFS06035	M6 x 110	100	6	45	-	35	10	2.99	3.59
GBCFS06040	M6 x 120	100	6	45	5	35	10	2.99	3.59
GBCFS06045	M6 x 130	100	6	45	10	35	10	2.99	3.59
GBCFS06050	M6 x 140	100	6	45	15	35	10	2.99	3.59
GBCFS06060	M6 x 60	100	6	65	5	55	10	2.99	3.59
GBCFS06070	M6 x 70	50	6	65	15	55	10	2.99	3.59
GBCFS06080	M6 x 80	50	6	65	25	55	10	2.99	3.59
GBCFS06100	M6 x 100	25	6	65	45	55	10	2.99	3.59
GBCFS06120	M6 x 120	25	8	65	65	55	10	2.99	3.59
GBCFS08055	M8 x 55	50	8	65	5	50	20	2.99	3.59
GBCFS08060	M8 x 60	50	8	60	10	50	20	2.99	3.59
GBCFS08070	M8 x 70	50	8	75	5	65	20	2.99	3.59
GBCFS08075	M8 x 75	25	8	75	10	65	20	2.99	3.59
GBCFS08080	M8 x 80	25	8	75	15	65	20	2.99	3.59
GBCFS08090	M8 x 90	25	8	75	25	60	20	2.99	3.59
GBCFS08100	M8 x 100	25	8	75	35	65	20	2.99	3.59
GBCFS08110	M8 x 110	25	8	75	45	65	20	2.99	3.59
GBCFS08120	M8 x 120	25	8	75	55	65	20	2.99	3.59
GBCFS08140	M8 x 140	25	8	75	75	65	20	2.99	3.59
GBCFS10060	M10 x 60	50	10	65	5	55	30	2.99	3.59
GBCFS10070	M10 x 70	50	10	65	15	55	30	2.99	3.59

GreenBolt CutFix CSK Concrete Screw - GBCKS



Specification

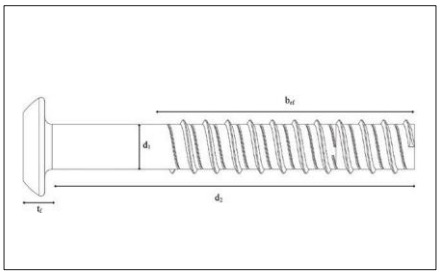
- Material: Zinc-plated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Countersunk (CSK) head with stud
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: High-load fastening
- Installation Type: Torque-controlled installation

Product Definition

High-strength concrete screw with a countersunk head for flush installation. Suitable for cracked and non-cracked concrete, designed for heavy-load fixings. Removable and reusable.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCKS05040	M5 x 40	100	5	45	5	35	8	2.99	3.59
GBCKS05060	M5 x 60	100	5	55	15	45	8	2.99	3.59
GBCKS05080	M5 x 80	50	5	55	35	45	8	2.99	3.59
GBCKS05100	M5 x 100	50	5	55	55	45	8	2.99	3.59
GBCKS06045	M6 x 45	100	6	45	10	35	10	2.99	3.59
GBCKS06050	M6 x 50	100	6	45	15	35	10	2.99	3.59
GBCKS06060	M6 x 60	100	6	65	5	55	10	2.99	3.59
GBCKS06080	M6 x 80	100	6	65	25	55	10	2.99	3.59
GBCKS06100	M6 x 100	100	6	65	45	55	10	2.99	3.59
GBCKS06120	M6 x 120	100	6	65	65	55	10	2.99	3.59
GBCKS06140	M6 x 140	100	6	65	85	55	10	2.99	3.59
GBCKS08060	M8 x 60	50	8	60	10	50	20	2.99	3.59
GBCKS08080	M8 x 80	25	8	75	15	65	20	2.99	3.59
GBCKS08100	M8 x 100	25	8	75	35	65	20	2.99	3.59
GBCKS08120	M8 x 120	25	8	75	55	65	20	2.99	3.59
GBCKS10100	M10 x 100	25	10	95	15	85	30	2.99	3.59
GBCKS10120	M10 x 120	25	10	95	35	85	30	2.99	3.59

GreenBolt CutFix Truss Concrete Screw - GBCTS



Specification

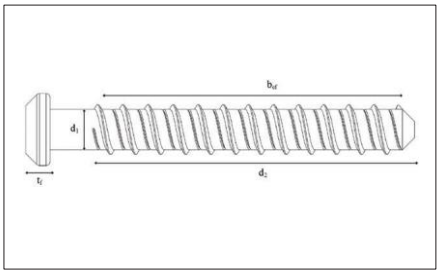
- Material: Zinc-plated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Countersunk (CSK) head with stud
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: High-load fastening
- Installation Type: Torque-controlled installation

Product Definition

A direct-fixing truss-head screw for cracked and non-cracked concrete. Ideal for high-load applications, it ensures even load distribution, a clean visible finish, and is fully removable and reusable.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCTS06040	M6 x 40	100	6	45	5	35	10	2.99	3.59
GBCTS06050	M6 x 50	100	6	45	15	35	10	2.99	3.59
GBCTS06060	M6 x 60	100	6	65	5	35	10	2.99	3.59

GreenBolt CutFix Pan Concrete Screw - GBCPS



Specification

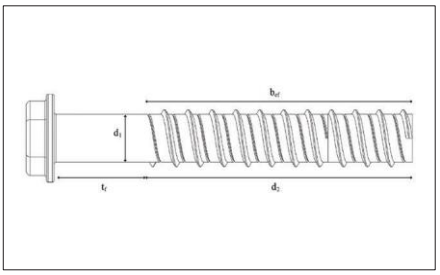
- Material: Zinc-plated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Pan head with stud
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: High-load fastening
- Installation Type: Torque-controlled installation

Product Definition

A direct-fixing pan-head screw for cracked and non-cracked concrete, designed for high-load applications. Its head allows high tightening torque with simple installation, and it is fully removable and reusable.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCPS05040	M5 x 40	100	5	45	5	35	8	2.99	3.59
GBCPS05060	M5 x 60	100	5	55	15	45	8	2.99	3.59
GBCPS06040	M6 x 40	100	6	45	5	35	10	2.99	3.59
GBCPS06050	M6 x 50	100	6	45	15	35	10	2.99	3.59
GBCPS06060	M6 x 60	100	6	65	5	55	10	2.99	3.59
GBCPS06080	M6 x 80	50	6	65	25	55	10	2.99	3.59
GBCPS06100	M6 x 100	50	6	65	45	55	10	2.99	3.59
GBCPS08060	M8 x 60	25	8	60	10	50	20	2.99	3.59
GBCPS08080	M8 x 80	25	8	75	15	65	20	2.99	3.59

GreenBolt CutFix Hex Concrete Srew - GBCHS



Specification

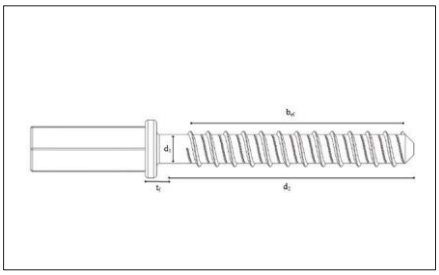
- Material: Zinc-plated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Pan head with stud
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: High-load fastening
- Installation Type: Torque-controlled installation

Product Definition

Direct fixing screw anchor with hex head and stud bolt for heavy-load fastening in cracked or non-cracked concrete. Removable, reusable, and made of durable zinc-plated steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCHS05040	M5 x 40	100	5	45	5	35	8	2.99	3.59
GBCHS05050	M5 x 50	100	5	55	5	45	8	2.99	3.59
GBCHS05060	M5 x 60	100	5	55	15	45	8	2.99	3.59
GBCHS05080	M5 x 80	50	5	55	35	45	8	2.99	3.59
GBCHS05100	M5 x 100	50	6	55	55	45	8	2.99	3.59
GBCHS06035	M6 x 35	100	6	45	-	35	10	2.99	3.59
GBCHS06040	M6 x 40	100	6	45	5	35	10	2.99	3.59
GBCHS06045	M6 x 45	100	6	45	10	35	10	2.99	3.59
GBCHS06050	M6 x 50	100	6	45	15	35	10	2.99	3.59
GBCHS06060	M6 x 60	100	6	65	5	55	10	2.99	3.59
GBCHS06070	M6 x 70	50	6	65	15	55	10	2.99	3.59
GBCHS06080	M6 x 80	50	6	65	25	55	10	2.99	3.59
GBCHS06100	M6 x 100	25	6	65	45	55	10	2.99	3.59
GBCHS06120	M6 x 120	25	6	65	65	55	10	2.99	3.59
GBCHS08055	M8 x 55	50	6	60	5	50	10	2.99	3.59
GBCHS08060	M8 x 60	50	6	60	10	50	20	2.99	3.59
GBCHS08070	M8 x 70	50	8	75	5	65	20	2.99	3.59
GBCHS08075	M8 x 75	25	8	75	10	65	20	2.99	3.59
GBCHS08080	M8 x 80	25	8	75	15	65	20	2.99	3.59
GBCHS08090	M8 x 90	25	8	75	25	65	20	2.99	3.59
GBCHS08100	M8 x 100	400	8	75	35	65	20	2.99	3.59
GBCHS08110	M8 x 110	400	8	75	45	65	20	2.99	3.59
GBCHS08120	M8 x 120	400	8	75	55	65	20	2.99	3.59
GBCHS08140	M8 x 140	300	8	75	75	65	20	2.99	3.59
GBCHS10060	M10 x 60	200	10	65	5	55	30	2.99	3.59
GBCHS10070	M10 x 70	200	10	65	15	55	30	2.99	3.59

GreenBolt CutFix Socket Concrete Screw - GBCSS



Specification

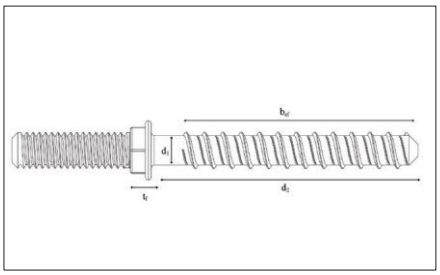
- Material: Zinc-plated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Socket head with stud
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: High-load fastening
- Installation Type: Torque-controlled installation

Product Definition

Direct fixing screw anchor with socket head and stud bolt for secure heavy-load fastening in cracked or non-cracked concrete. Removable, reusable, and manufactured from high-strength zinc-plated steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCSS05035S	M5 x 35	50	5	45	-	35	8	2.99	3.59
GBCSS06035	M6 x 35	50	6	45	-	35	10	2.99	3.59
GBCSS06040	M6 x 40	50	6	45	-	35	10	2.99	3.59
GBCSS06055	M6 x 55	50	6	65	-	55	10	2.99	3.59
GBCSS08050T	M8 x 50	50	8	60	-	50	20	2.99	3.59
GBCSS08050W	M8 x 50	50	8	60	-	50	20	2.99	3.59

GreenBolt CutFix Pin Concrete Srew - GBCIS



Specification

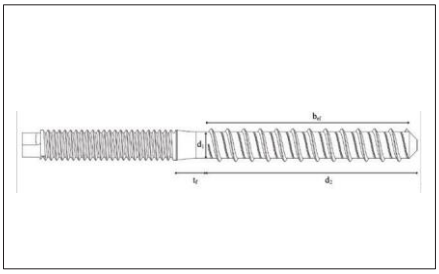
- Material: Zinc-plated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Pin head with stud
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: High-load fastening
- Installation Type: Torque-controlled installation

Product Definition

Direct fixing screw anchor with pin head and stud bolt for high-load applications in cracked or non-cracked concrete. Removable, reusable, and built from durable zinc-plated steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCIS06035	M6 x 35	100	6	45	-	35	10	2.99	3.59
GBCIS06055	M6 x 55	100	6	65	-	35	10	2.99	3.59

GreenBolt CutFix Stud Concrete Screw - GBCUS



Specification

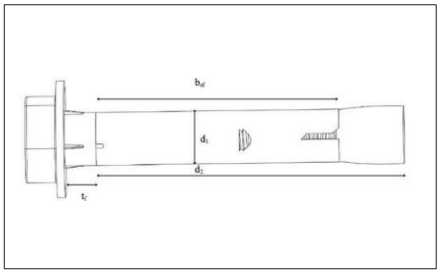
- Material: Zinc-coated steel
- Surface: Zinc-plated finish
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Threaded stud (no separate head)
- Drilling Method: Direct fixing into pre-drilled hole
- Base Material: Cracked and non-cracked concrete
- Type of Fastening: Direct mechanical fixing
- Reusability: Removable and reusable
- Applications: HVAC hangers, suspended ceiling

Product Definition

Direct fixing screw anchor with threaded stud for heavy-load fastening in cracked or non-cracked concrete. Removable, reusable, and made from strong zinc-coated steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBCUS06100	M6 x 100	50	6	65	31	55	10	2.99	3.59
GBCUS06120	M6 x 120	50	6	65	51	55	10	2.99	3.59
GBCUS08110	M8 x 110	50	8	75	29	65	20	2.99	3.59
GBCUS08130	M8 x 130	50	8	75	49	65	20	2.99	3.59
GBCUS10120	M10 x 120	25	10	85	26	75	30	2.99	3.59
GBCUS10140	M10 x 140	25	10	85	46	75	3	2.99	3.59

Greenbolt HexLock Sleeve Anchor (8.8) - GBHESA



Specification

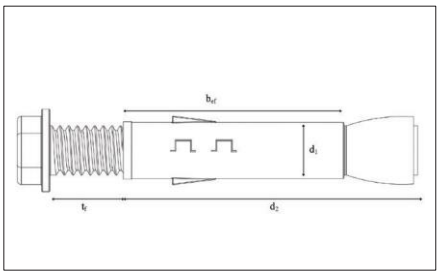
- Material: Steel grade 8.8
- Surface: Zinc-plated / corrosion-protected
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Hexagonal head
- Drilling Method: Pre-drilled hole (torque-controlled)
- Base Material: Solid materials(concrete, stone, brick)
- Type of Fastening: Mechanical expansion
- Reusability: Removable and reusable

Product Definition

A medium-duty sleeve anchor with a high-strength 8.8 grade hexagonal bolt, designed for solid materials. Its material properties provide superior tensile and shear strength, ensuring secure and reliable fastening for structural applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i		
GBHESA8808C	M6 x 45	200	8	45	5	30	10	3.67	5.39
GBHESA8808L	M6 x 60	200	8	45	20	30	10	3.67	5.39
GBHESA8808C	M6 x 80	100	8	45	40	30	10	3.67	5.39
GBHESA8808L	M6 x 100	50	8	45	60	30	10	3.67	5.39
GBHESA8810C	M8 x 60	100	10	60	5	40	20	6.67	8.3
GBHESA8810L	M8 x 80	100	10	60	27	40	20	6.67	8.3
GBHESA8810C	M8 x 100	50	10	60	47	40	20	6.67	8.3
GBHESA8810M	M8 x 120	50	10	60	67	40	20	6.67	8.3
GBHESA8810L	M8 x 140	25	10	60	87	40	20	6.67	8.3
GBHESA8812C	M10 x 70	100	12	75	5	48	35	9.09	10.91
GBHESA8812L	M10 x 100	50	12	75	32	48	35	9.09	10.91
GBHESA8812C	M10 x 120	50	12	75	52	48	35	9.09	10.91
GBHESA8812L	M10 x 150	25	12	75	82	48	35	9.09	10.91
GBHESA8816C	M12 x 80	50	16	80	5	55	50	11.15	13.38
GBHESA8816L	M12 x 110	50	16	80	37	55	50	11.15	13.38
GBHESA8820C	M16 x 110	25	20	105	15	72	140	20.04	40.07

Greenbolt FlangeNut Sleeve Anchor - 8.8 - GBNESA



Specification

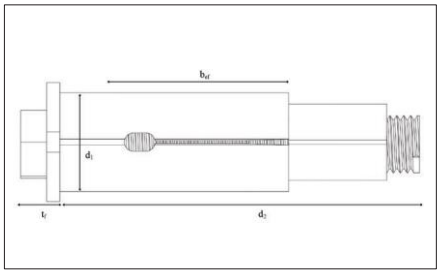
- Material: Steel grade 8.8
- Surface: Zinc-plated / corrosion-protected
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Flange nut head
- Drilling Method: Pre-drilled hole (torque-controlled)
- Base Material: Solid materials(concrete, stone, brick)
- Type of Fastening: Mechanical expansion
- Reusability: Removable and reusable

Product Definition

A medium-duty sleeve anchor with a flange nut and 8.8 grade bolt, offering high tensile strength and improved load distribution. Designed for solid materials, it ensures secure and durable fastening in demanding applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBNESA8808C	M6 x 45	100	12	60	8	30	10	0.57	5.39
GBNESA8808L	M8 x 55	50	14	65	15	35	20	2.24	6.79
GBNESA8810C	M10 x 65	50	16	75	23	45	40	3.26	9.9
GBNESA8810L	M12 x 75	25	20	90	30	55	65	4.56	25.29
GBNESA8812C	M16 x 90	10	24	105	17	70	150	5.83	38.41

Greenbolt Flush Sleeve Anchor - 8.8 - GBFESA



Specification

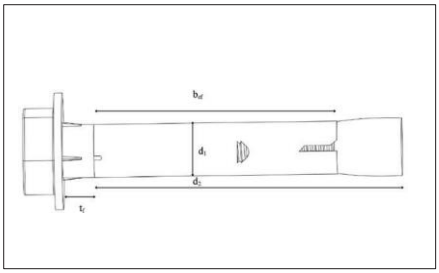
- Material: Steel grade 8.8
- Surface: Zinc-plated / corrosion-protected
- Corrosion Resistant: Yes, protected by zinc coating
- Head Configuration: Flat / Flushnut head
- Drilling Method: Pre-drilled hole (torque-controlled)
- Base Material: Solid materials(concrete, stone, brick)
- Type of Fastening: Mechanical expansion
- Reusability: Removable and reusable

Product Definition

A medium-duty flush sleeve anchor with an 8.8 grade high-strength bolt, designed for solid materials. Its flush head ensures a neat finish, while the superior tensile and shear strength of the 8.8 grade provides reliable fastening for structural and heavy-duty applications.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBFESA8808	M6 x 40	200	8	40	5	25	10	2.96	4.1
GBFESA8810	M8 x 40	100	10	45	5	25	20	3.42	4.1

Greenbolt Prime Sleeve Anchor - A2 - GBPSSA



Specification

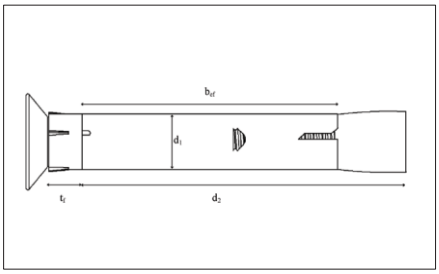
- Material: Galvanized Steel
- Surface: Zinc-coated / Galvanized finish
- Corrosion Resistant: Yes, corrosion-protected
- Head Configuration: Flat head
- Drilling Method: Pre-drilled hole (torque-controlled)
- Base Material: Solid materials(concrete, stone, brick)
- Type of Fastening: Mechanical expansion
- Reusability: Removable and reusable

Product Definition

Sleeve-type anchor with flat head for medium-load fixing in solid materials. Expands by controlled torque and includes anti-rotation features for secure installation. Made from galvanized steel for durability.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBPSSA208C	M6 x 45	100	8	45	5	30	10	5.39	4.52
GBPSSA208L	M6 x 60	100	8	45	20	30	10	5.39	4.52
GBPSSA209C	M6 x 45	100	9	45	5	30	10	5.39	4.52
GBPSSA209L	M6 x 60	100	9	45	20	30	10	5.39	4.52
GBPSSA210C	M8 x 60	100	10	60	5	40	20	5.39	4.52
GBPSSA210L	M8 x 80	100	10	60	27	40	20	5.28	8.24
GBPSSA211C	M8 x 60	100	11	60	5	40	20	5.28	8.24
GBPSSA211L	M8 x 80	100	11	60	27	40	20	5.28	8.24
GBPSSA212C	M10 x 70	100	12	75	5	48	35	5.28	8.24
GBPSSA212L	M10 x 100	100	12	75	32	48	35	7.78	10.91
GBPSSA214C	M10 x 70	50	14	75	5	48	35	7.78	10.91
GBPSSA214L	M10 x 100	100	14	75	32	48	35	7.78	10.91
GBPSSA216C	M12 x 80	50	6	80	5	55	50	7.78	10.91
GBPSSA216L	M12 x 110	50	16	80	37	55	50	8.89	13.38
GBPSSA220C	M16 x 110	25	20	80	15	72	140	11	16.5

Greenbolt Apex Sleeve Anchor - A2 - GBXSSA



Specification

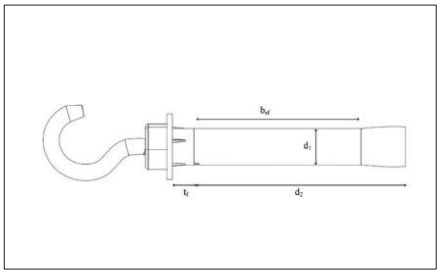
- Material: A2 Stainless Steel
- Surface: Natural finish
- Corrosion Resistant: Yes, high resistance due to stainless steel
- Head Configuration: Tamper-proof head
- Drilling Method: Pre-drilled hole (torque-controlled)
- Base Material: Solid materials(concrete, stone, brick)
- Type of Fastening: Mechanical expansion
- Reusability: Removable and reusable

Product Definition

Sleeve-type anchor with tamper-proof head for medium-load fixing in solid materials. Expands by controlled torque with anti-rotation design, made from durable galvanized steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBXSSA08C	M6 x 45	100	8	45	5	30	10	3.85	3.25
GBXSSA08L	M6 x 60	100	8	45	20	30	10	3.85	3.23
GBXSSA10C	M8 x 60	100	10	60	5	40	20	3.77	5.88
GBXSSA10L	M6 x 80	100	10	60	27	40	20	3.77	5.88
GBXSSA12C	M10 x 70	50	12	75	5	48	35	2.62	7.79
GBXSSA12L	M10 x 100	50	12	75	32	48	35	2.62	7.79

Greenbolt Talon Sleeve Anchor - A2 - GBTSSA



Specification

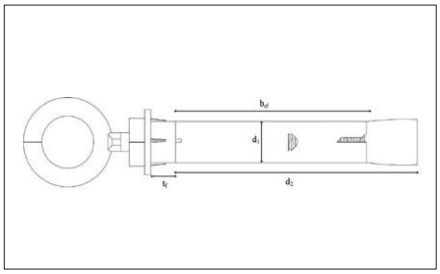
- Material: A2 Stainless Steel
- Surface: Natural finish
- Corrosion Resistant: Yes, high resistance due to stainless steel
- Head Configuration: Hexagonal head with washer
- Drilling Method: Pre-drilled hole (torque-controlled)
- Base Material: Solid materials(concrete, stone, brick)
- Type of Fastening: Mechanical expansion
- Reusability: Removable and reusable

Product Definition

A premium torque-controlled sleeve anchor with a forged hook for secure attachment of cables, fences, and similar elements. Made from A2 stainless steel, it ensures high corrosion resistance, reliable medium-load fixing in solid materials, and features anti-rotation design for stable installation.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBTSSA208C	M6 x 45	100	8	45	-	35	10	1.16	1.6
GBTSSA210C	M8 x 60	100	10	60	-	45	20	1.16	2
GBTSSA212C	M10 x 70	50	12	75	-	53	30	2.13	3

Greenbolt LockEye Sleeve Anchor - A2 - GBLSSA



Specification

- Material: A2 Stainless Steel
- Surface: Natural finish
- Corrosion Resistant: Yes, high resistance due to stainless steel
- Head Configuration: Forged eyebolt
- Drilling Method: Pre-drilled hole (torque-controlled)
- Base Material: Solid materials(concrete, stone, brick)
- Type of Fastening: Mechanical expansion
- Reusability: Removable and reusable

Product Definition

Sleeve-type anchor with forged eyebolt for installing cables, fencing, and similar elements. Designed for medium-load fixing in solid materials, it expands by controlled torque with anti-rotation features. Made from durable A2 stainless steel.

			Installation Parameters					Design Resistance	
Product Code	Size	Pack Size (pcs)	Drill Ø	Drill Hole Depth	Max. Fixture Thickness	eff. Anchorage depth	Installation Torque [Nm]	Tensile Load kN	Shear Load kN
			d_1	d_2	t_f	b_{ef}	T_i	N_{rd}	V_{rd}
GBLSSA208C	M6 x 45	100	8	45	-	35	10	2.25	2
GBLSSA210C	M8 x 60	100	10	60	-	45	20	5.28	3.5
GBLSSA212C	M10 x 70	50	12	75	-	53	35	7.78	4.8