Technical Sheet

ATS-evo
Heavy duty safety bolt with seismic certification

Force-controlled expansion anchor for heavy loads in sizes M10 - M24 for anchoring in cracked and non-cracked concrete C20/25 - C50/60, as well as for seismic areas. Seismic actions of the performance category C1/C2.









Features

Material

White zinc plated

Applications

Benefits

- Seismic performance C1 and C2
- Cracked concrete
- Fire resistance R120

Applications

- Steel constructions
- Industrial construction
- Steel and metal construction (railings, brackets, etc.)
- Anchorages for gates and machines
- Cable routes/pipe installations
- Seismic effects of category C1/C2
- Fire impact R30 to R120
- Sprinkler systems/shelters

Suitable for

Cracked and un-cracked concrete

Technical Sheet

ATS-evo

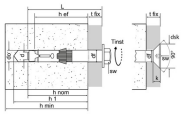
Heavy duty safety bolt with seismic certification

Technical Data

Technical Sheet

ATS-evo

Heavy duty safety bolt with seismic certification



ATS-evo B

Reference	Metallic fixings dimensions							Installation data			
	Product Dimensions[mm]			Product Reference	Other			Installation data			Spacing and edge distances
	Dimensions[mm]	Plug[mm]	Wrench size[mm]		Fixture thickness [$t_{fix,max}$] with standard setting depth [$h_{ef,stD}$] [mm]	Hole diameter in fixture [df][mm]	Qty per box[stk]	Min. drill depth[mm]	Embedment depth[mm]	Installation torque[Nm]	Min. support thickness[mm]
79402B1008000	10/20-M6*	10x80	10	ATS-evo B	20	-	50.0	-	-	-	-
79402B1011000	10/50-M6*	10x110	10	ATS-evo B	50	-	50.0	-	-	-	-
79402B1208000	12/10-M8	12x80	13	ATS-evo B	10	-	25.0	-	-	-	-
79402B1209000	12/20-M8	12x90	13	ATS-evo B	20	-	25.0	-	-	-	-
79402B1212000	12/50-M8	12x120	13	ATS-evo B	50	-	25.0	-	-	-	-
79402B1509000	15/10-M10	15x90	17	ATS-evo B	10	17	20.0	95	67	45	140
79402B1510000	15/20-M10	15x100	17	ATS-evo B	20	17	20.0	95	67	45	140
79402B1513000	15/50-M10	15x130	17	ATS-evo B	50	17	20.0	95	67	45	140
79402B1518000	15/100-M10	15x180	17	ATS-evo B	100	17	20.0	95	67	45	140
79402B1812500	18/25-M12	18x125	19	ATS-evo B	25	20	20.0	100	88	80	180
79402B1820000	18/100-M12	18x200	19	ATS-evo B	100	20	20.0	100	88	80	180
79402B2412500	24/10-M16	24x125	24	ATS-evo B	10	26	10.0	130	99	150	200
79402B2414000	24/25-M16	24x140	24	ATS-evo B	25	26	10.0	130	99	150	200
79402B2416500	24/50-M16	24x165	24	ATS-evo B	50	26	10.0	130	99	150	200
79402B2421500	24/100-M16	24x215	24	ATS-evo B	100	26	10.0	130	99	150	200
79402B2816000	28/10-M20▲	28x155	30	ATS-evo B	10	31	4.0	145	125	170	250
79402B2818000	28/30-M20▲	28x175	30	ATS-evo B	30	31	4.0	145	125	170	250
79402B2821000	28/60-M20▲	28x205	30	ATS-evo B	60	31	4.0	145	125	170	250
79402B2825000	28/100-M20▲	28x245	30	ATS-evo B	100	31	4.0	145	125	170	250

*Seismic certification category C1 only

Technical Sheet

ATS-evo

Heavy duty safety bolt with seismic certification

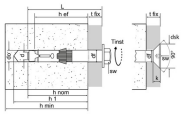
Reference	Metallic fixings dimensions							Installation data			
	Product Dimensions[mm]			Product Reference	Other			Installation data			Spacing and edge distances
	Dimensions[mm]	Plug[mm]	Wrench size[mm]		Fixture thickness [$tfix,max$] with standard setting depth [hef,stD] [mm]	Hole diameter in fixture [df][mm]	Qty per box[stk]	Min. drill depth[mm]	Embedment depth[mm]	Installation torque[Nm]	Min. support thickness[mm]
79402B3218000	32/10-M24▲	32x175	36	ATS-evo B	10	35	4.0	180	150	200	300
79402B3220000	32/30-M24▲	32x195	36	ATS-evo B	30	35	4.0	180	150	200	300
79402B3223000	32/60-M24▲	32x225	36	ATS-evo B	60	35	4.0	180	150	200	300

*Seismic certification category C1 only

Technical Sheet

ATS-evo

Heavy duty safety bolt with seismic certification



ATS-evo S

Reference	Metallic fixings dimensions							Installation data			
	Product Dimensions[mm]			Product Reference	Other			Installation data			Spacing and edge distances
	Dimensions[mm]	Plug[mm]	Wrench size[mm]		Fixture thickness [$t_{fix,max}$] with standard setting depth [$h_{ef,stD}$] [mm]	Hole diameter in fixture [df][mm]	Qty per box[stk]	Min. drill depth[mm]	Embedment depth[mm]	Installation torque[Nm]	Min. support thickness[mm]
79302B1007000	10/10-M6*	10x70	10	ATS-evo S	10	-	50.0	-	-	-	-
79302B1011000	10/50-M6*	10x110	10	ATS-evo S	50	-	50.0	-	-	-	-
79302B1815000	18/50-M12	18x150	19	ATS-evo S	50	20	20.0	100	88	80	180
79302B1820000	18/100-M12	18x200	19	ATS-evo S	100	20	20.0	100	88	80	180
79302B1518000	15/100-M10	15x180	17	ATS-evo S	100	17	20.0	95	67	45	140
79302B2421500	24/100-M16	24x215	24	ATS-evo S	100	26	10.0	130	99	150	200
79302B1008000	10/20-M6*	10x80	10	ATS-evo S	20	12	50.0	75	49	10	100
79302B1208000	12/10-M8	12x80	13	ATS-evo S	10	14	25.0	85	59	20	120
79302B1209000	12/20-M8	12x90	13	ATS-evo S	20	14	25.0	85	59	20	120
79302B1212000	12/50-M8	12x120	13	ATS-evo S	50	14	25.0	85	59	20	120
79302B1509000	15/10-M10	15x95	17	ATS-evo S	50	17	20.0	95	67	45	140
79302B1510000	15/20-M10	15x100	17	ATS-evo S	20	17	20.0	95	67	45	140
79302B1513000	15/50-M10	15x130	17	ATS-evo S	50	17	20.0	95	67	45	140
79302B1811000	18/10-M12	18x110	19	ATS-evo S	10	20	20.0	115	88	80	180
79302B1812500	18/25-M12	18x125	19	ATS-evo S	25	20	20.0	115	88	80	180
79302B2412500	24/10-M16	24x125	24	ATS-evo S	10	26	10.0	130	99	150	200
79302B2414000	24/25-M16	24x140	24	ATS-evo S	25	26	10.0	130	99	150	200
79302B2416500	24/50-M16	24x165	24	ATS-evo S	50	26	10.0	130	99	150	200
79302B2816000	28/10-M20	28x155	30	ATS-evo S	10	31	4.0	160	125	170	250

*Seismic certification category C1 only

Technical Sheet

ATS-evo

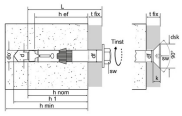
Heavy duty safety bolt with seismic certification

Reference	Metallic fixings dimensions							Installation data			
	Product Dimensions[mm]			Product Reference	Other			Installation data			Spacing and edge distances
	Dimensions[mm]	Plug[mm]	Wrench size[mm]		Fixture thickness [$t_{fix,max}$] with standard setting depth [$h_{ef,stD}$] [mm]	Hole diameter in fixture [df][mm]	Qty per box[stk]	Min. drill depth[mm]	Embedment depth[mm]	Installation torque[Nm]	Min. support thickness[mm]
79302B2818000	28/30-M20	28x175	30	ATS-evo S	30	31	4.0	160	125	170	250
79302B2821000	28/60-M20	28x205	30	ATS-evo S	60	31	4.0	160	125	170	250
79302B2825000	28/100-M20	28x245	30	ATS-evo S	100	31	4.0	145	125	170	250
79302B3218000	32/10-M24	32x175	36	ATS-evo S	10	35	4.0	180	150	200	300
79302B3220000	32/30-M24	32x195	36	ATS-evo S	30	35	4.0	180	150	200	300
79302B3223000	32/60-M24	32x225	36	ATS-evo S	60	35	4.0	180	150	200	300

*Seismic certification category C1 only

Technical Sheet

ATS-evo
Heavy duty safety bolt with seismic certification



ATS-evo SK

Reference	Metallic fixings dimensions							Installation data			
	Product Dimensions[mm]			Product Reference	Other			Installation data			Spacing and edge distances
	Dimensions[mm]	Plug[mm]	Wrench size[mm]		Fixture thickness [$t_{fix,max}$] with standard setting depth [$h_{ef,stD}$] [mm]	Hole diameter in fixture [df][mm]	Qty per box[stk]	Min. drill depth[mm]	Embedment depth[mm]	Installation torque[Nm]	Min. support thickness[mm]
79303B1007000	10/15-M6*	10x70	5	ATS-evo SK	15	-	50.0	-	-	-	-
79303B1008000	10/25-M6*	10x80	5	ATS-evo SK	25	-	50.0	-	-	-	-
79303B1208000	12/16-M8	12x80	6	ATS-evo SK	16	-	25.0	-	-	-	-
79303B1209000	12/26-M8	12x90	6	ATS-evo SK	26	-	25.0	-	-	-	-
79303B1212000	12/56-M8	12x120	6	ATS-evo SK	56	-	25.0	-	-	-	-
79303B1509000	15/17-M10	15x90	8	ATS-evo SK	17	17	20.0	95	67	45	140
79303B1510000	15/27-M10	15x100	8	ATS-evo SK	27	17	20.0	95	67	45	140
79303B1812500	18/33-M12	18x125	10	ATS-evo SK	33	20	20.0	100	88	80	180

*Seismic certification category C1 only

Recommended loads / non-cracked concrete / for single anchors / with no edge distances or spacings - ETA-10/0423

Reference	Metallic fixings dimensions		Metallic fixings loads								
	Dim										Des capa - N crac conc (3)[
	Dimensions[mm]		C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	Ben mor MRd

Recommended loads / non-cracked concrete / for single anchors / with no edge distances or spacings - ETA-10/0423
See full table online ➡️

Technical Sheet

ATS-evo

Heavy duty safety bolt with seismic certification

Recommended loads / cracked concrete / for single anchors / with no edge distances or spacings - ETA-10/0423

Reference	Metallic fixings dimensions		Metallic fixings loads										
	Dim												Des capa Crac conc
	Dim											C50/60[kN]	Ben mor MRd
Z9402R1008000	10/20 M6*	ATS-evo											

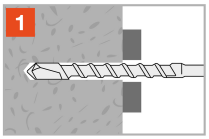
Recommended loads / cracked concrete / for single anchors / with no edge distances or spacings - ETA-10/0423

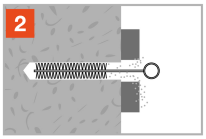
See full table online ➡️

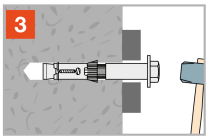
ATS-evo

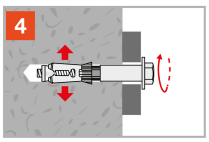
Heavy duty safety bolt with seismic certification

Installation









Technical Sheet

ATS-evo

Heavy duty safety bolt with seismic certification

Spacing and edge distances

Reference	Metallic fixings dimensions		Installation data			
	Product Dimensions[mm]	Product Reference	Spacing and edge distances		Spacing and edge distances - Rebar	
	Dimensions[mm]		Min. spacing[mm]	Characteristic spacing(5) - Scr,N[mm]	Min. edge distance[mm]	Characteristic edge distance (Ccr,N)[mm]
79402B1008000	10/20-M6*	ATS-evo B	-	-	-	-
79402B1011000	10/50-M6*	ATS-evo B	-	-	-	-
79402B1208000	12/10-M8	ATS-evo B	-	-	-	-
79402B1209000	12/20-M8	ATS-evo B	-	-	-	-
79402B1212000	12/50-M8	ATS-evo B	-	-	-	-
79402B1509000	15/10-M10	ATS-evo B	70	201	70	101
79402B1510000	15/20-M10	ATS-evo B	70	201	70	101
79402B1513000	15/50-M10	ATS-evo B	70	201	70	101
79402B1518000	15/100-M10	ATS-evo B	70	201	70	101
79402B1812500	18/25-M12	ATS-evo B	80	264	80	132
79402B1820000	18/100-M12	ATS-evo B	80	264	80	132
79402B2412500	24/10-M16	ATS-evo B	100	297	100	149
79402B2414000	24/25-M16	ATS-evo B	100	297	100	149
79402B2416500	24/50-M16	ATS-evo B	100	297	100	149
79402B2421500	24/100-M16	ATS-evo B	100	297	100	149
79402B2816000	28/10-M20▲	ATS-evo B	125	375	125	188
79402B2818000	28/30-M20▲	ATS-evo B	125	375	125	188
79402B2821000	28/60-M20▲	ATS-evo B	125	375	125	188
79402B2825000	28/100-M20▲	ATS-evo B	125	375	125	188
79402B3218000	32/10-M24▲	ATS-evo B	150	450	150	225
79402B3220000	32/30-M24▲	ATS-evo B	150	450	150	225
79402B3223000	32/60-M24▲	ATS-evo B	150	450	150	225
79302B1007000	10/10-M6*	ATS-evo S	-	-	-	-
79302B1011000	10/50-M6*	ATS-evo S	-	-	-	-
79302B1815000	18/50-M12	ATS-evo S	80	264	80	132
79302B1820000	18/100-M12	ATS-evo S	80	264	80	132
79302B1518000	15/100-M10	ATS-evo S	70	201	70	101
79302B2421500	24/100-M16	ATS-evo S	100	297	100	149
79302B1008000	10/20-M6*	ATS-evo S	50	147	50	74
79302B1208000	12/10-M8	ATS-evo S	60	177	60	89
79302B1209000	12/20-M8	ATS-evo S	60	177	60	89
79302B1212000	12/50-M8	ATS-evo S	60	177	60	89
79302B1509000	15/10-M10	ATS-evo S	70	201	70	101
79302B1510000	15/20-M10	ATS-evo S	70	201	70	101
79302B1513000	15/50-M10	ATS-evo S	70	201	70	101
79302B1811000	18/10-M12	ATS-evo S	80	264	80	132
79302B1812500	18/25-M12	ATS-evo S	80	264	80	132
79302B2412500	24/10-M16	ATS-evo S	100	297	100	149
79302B2414000	24/25-M16	ATS-evo S	100	297	100	149
79302B2416500	24/50-M16	ATS-evo S	100	297	100	149
79302B2816000	28/10-M20	ATS-evo S	125	375	125	188
79302B2818000	28/30-M20	ATS-evo S	125	375	125	188
79302B2821000	28/60-M20	ATS-evo S	125	375	125	188
79302B2825000	28/100-M20	ATS-evo S	125	375	125	188

Technical Sheet

ATS-evo

Heavy duty safety bolt with seismic certification

Reference	Metallic fixings dimensions		Installation data			
	Product Dimensions[mm]	Product Reference	Spacing and edge distances		Spacing and edge distances - Rebar	
	Dimensions[mm]		Min. spacing[mm]	Characteristic spacing(5) - Scr,N[mm]	Min. edge distance[mm]	Characteristic edge distance (Ccr,N)[mm]
79302B3218000	32/10-M24	ATS-evo S	150	450	150	225
79302B3220000	32/30-M24	ATS-evo S	150	450	150	225
79302B3223000	32/60-M24	ATS-evo S	150	450	150	225
79303B1007000	10/15-M6*	ATS-evo SK	-	-	-	-
79303B1008000	10/25-M6*	ATS-evo SK	-	-	-	-
79303B1208000	12/16-M8	ATS-evo SK	-	-	-	-
79303B1209000	12/26-M8	ATS-evo SK	-	-	-	-
79303B1212000	12/56-M8	ATS-evo SK	-	-	-	-
79303B1509000	15/17-M10	ATS-evo SK	70	201	70	101
79303B1510000	15/27-M10	ATS-evo SK	70	201	70	101
79303B1812500	18/33-M12	ATS-evo SK	80	264	80	132

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