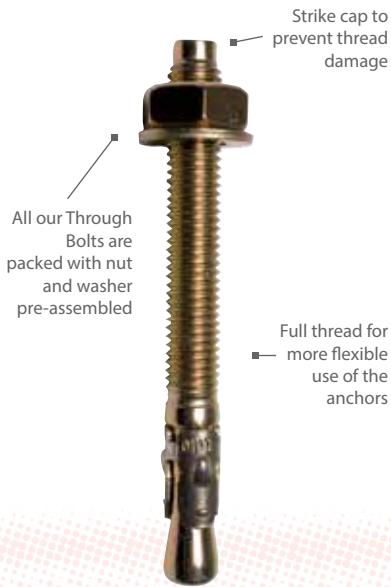
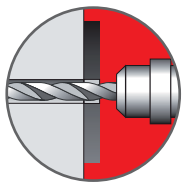


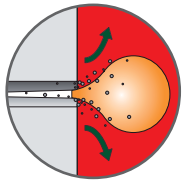
THROUGH BOLTS



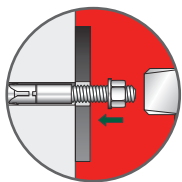
A Through Bolt is a torque controlled anchor, where the hole size is the same as the bolt.



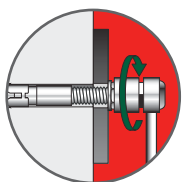
Drill your hole to the correct diameter...



...clear any debris...



...insert Through Bolt through fixture into hole...



...tighten to recommended tightening torque.

THROUGH BOLTS - Zinc & Yellow

Code	Size	Anchor Hole Size	Anchor Length	Thread Length	Fastens Up To	Min Hole Depth	Qty Per Box	Qty Per Outer	Weight Kg Per 100	Price £ Per 100
0841M490045	M6 x 45	6	45	22	3	30	100	1000	1.26	24.98
0841M490055	M6 x 55	6	55	32	15	35	100	1000	1.35	25.54
0841M490070	M6 x 70	6	70	47	30	35	100	1000	1.67	26.20
0841M490085	M6 x 85	6	85	62	45	35	100	1000	2.12	32.56
0841M490095	M6 x 95	6	95	72	55	35	100	1000	2.00	38.30
0841M540050	M8 x 50	8	50	20	10	35	100	500	2.70	31.67
0841M540065	M8 x 65	8	65	35	20	40	100	500	3.30	35.54
0841M540080	M8 x 80	8	80	50	35	40	100	500	3.90	41.86
0841M540100	M8 x 100	8	100	70	55	40	100	400	4.08	46.59
0841M540120	M8 x 120	8	120	90	75	40	100	400	5.50	52.13
0841M560065	M10 x 65	10	65	35	15	40	50	500	5.20	50.35
0841M560075	M10 x 75	10	75	45	25	40	50	500	5.40	56.70
0841M560090	M10 x 90	10	90	60	30	50	50	250	6.32	57.92
0841M560095	M10 x 95	10	95	65	35	50	50	250	7.00	60.12
0841M560120	M10 x 120	10	120	90	60	50	50	250	8.60	70.95
0841M560130	M10 x 130	10	130	100	70	50	50	250	9.20	72.28
0841M580080	M12 x 80	12	80	45	20	50	25	250	8.40	73.85
0841M580100	M12 x 100	12	100	65	30	60	25	200	10.20	79.32
0841M580120	M12 x 120	12	120	85	50	60	25	200	12.00	80.84
0841M580140	M12 x 140	12	140	105	70	60	25	150	13.00	106.05
0841M580150	M12 x 150	12	150	115	80	60	25	150	14.60	118.81
0841M580180	M12 x 180	12	180	145	110	60	25	150	16.40	148.35
0841M620090	M16 x 90	16	90	45	10	60	20	125	18.50	142.64
0841M620105	M16 x 105	16	105	60	15	70	20	125	19.10	151.60
0841M620125	M16 x 125	16	125	80	25	80	20	100	22.50	171.52
0841M620140	M16 x 140	16	140	95	40	80	20	75	24.60	171.80
0841M620150	M16 x 150	16	150	105	50	80	20	75	26.15	202.05
0841M620180	M16 x 180	16	180	135	80	80	15	75	32.00	233.94
0841M620220	M16 x 220	16	220	175	120	80	15	45	37.30	268.44
0841M640125	M20 x 125	20	125	75	15	85	10	50	36.30	254.48
0841M640160	M20 x 160	20	160	110	40	100	10	50	45.00	308.58
0841M640200	M20 x 200	20	200	150	80	100	10	40	54.90	401.01
0841M640220	M20 x 220	20	220	170	100	100	10	30	60.20	474.70
0841M640300	M20 x 300	20	300	250	180	100	10	30	79.70	545.96
0841M660180	M24 x 180	24	180	125	45	120	10	-	69.00	720.49
0841M660260	M24 x 260	24	260	205	125	120	5	-	98.00	942.14

Technical Information Through Bolts - Zinc & Yellow

Thread Diameter (size)	Hole Diameter (mm)	Embedment Depth (mm)	Fixture Clearance Hole (mm)	Centre Spacing (mm)	Edge Distance (mm)	Structure Thickness (mm)	Rec Tensile Load kN	Rec Shear Load kN	Rec Tight Torque Nm
M6	6	35	7	70	50	50	1.80	2.30	6
M8	8	40	9	75	60	60	2.80	3.20	10
M10	10	50	12	105	80	80	4.30	5.80	28
M12	12	60	14	140	100	100	6.80	7.20	34
M16	16	70	18	165	130	110	8.00	10.40	85
M20	20	100	22	195	160	130	10.80	14.00	160
M24	24	120	26	250	200	180	26.20	49.30	300

For loads for 30 N/mm² CONCRETE.
Shear loads are for loads away from a free edge.



THROUGH BOLTS - Hot Dip Galvanised

Code	Size	Anchor Hole Size	Anchor Length	Thread Length	Fastens Up To	Min Hole Depth	Qty Per Box	Weight Kg Per 100	Price £ Per 100
0841M540050G	M8 X 50	8	50	22	5	45	100	2.32	80.97
0841M540075G	M8 X 75	8	75	25	10	65	100	3.44	88.31
0841M540095G	M8 X 95	8	95	25	30	65	100	4.19	97.48
0841M540120G	M8 X 120	8	120	25	55	65	100	5.09	107.32
0841M560060G	M10 X 60	10	60	25	10	50	50	2.31	107.91
0841M560085G	M10 X 85	10	85	30	10	70	50	3.00	119.47
0841M560105G	M10 X 105	10	105	30	30	70	50	3.47	124.15
0841M560125G	M10 x 125	10	125	30	50	70	50	4.21	136.36
0841M580085G	M12 X 85	12	85	25	10	80	25	2.10	168.51
0841M580100G	M12 X 100	12	100	35	15	90	25	2.50	180.29
0841M580115G	M12 X 115	12	115	35	20	90	25	2.84	183.97
0841M580145G	M12 X 145	12	145	35	50	90	25	3.48	215.22
0841M580180G	M12 x 180	12	180	80	85	90	25	4.21	309.16
0841M620110G	M16 X 110	16	110	60	15	90	20	4.14	314.40
0841M620125G	M16 X 125	16	125	40	10	110	20	4.50	353.47
0841M620150G	M16 X 150	16	150	40	30	110	20	5.04	396.01
0841M620200G	M16 X 200	16	200	55	80	110	20	6.50	503.04
0841M640170G	M20 X 170	20	170	45	35	130	10	4.96	649.54
0841M640220G	M20 X 220	20	220	55	75	130	10	6.00	755.74
0841M640280G	M20 X 280	20	280	55	135	130	10	7.00	795.50



Hot Dip Galvanised coating to over 40 microns for increased corrosion protection

Stainless Steel clips to reduce loss of protection when setting

A Through Bolt is a torque controlled anchor, where the hole size is the same as the bolt.

All our Through Bolts are packed with nut and washer pre-assembled.

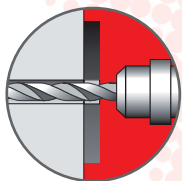
Technical Information Through Bolts - Hot Dip Galvanised

Thread Diameter (size)	Hole Diameter (mm)	Embedment Depth (mm)	Fixture Clearance Hole (mm)	Centre Spacing (mm)	Edge Distance (mm)	Structure Thickness (mm)	Recommended Tensile Load kN	Recommended Shear Load kN	Recommended Tight Torque kN
M8	8	40	9	75	60	60	2.80	3.20	10
M10	10	50	12	105	80	80	4.30	5.80	28
M12	12	60	14	140	100	100	6.80	7.20	34
M16	16	70	18	165	130	110	8.00	10.40	85
M20	20	100	22	195	160	130	10.80	14.00	160

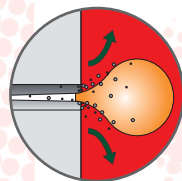
For loads for 30 N/mm² CONCRETE. Shear loads are for loads away from a free edge.

WIRE HANGERS - Zinc & Yellow

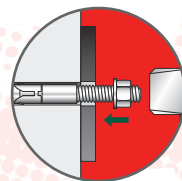
Code	Size	Anchor Hole Size	Anchor Length	Fastens Up To	Min Hole Depth	Rec Tensile Load kN	Qty Per Box	Weight Kg Per 100	Price £ Per 100
0861T490060	6 x 60	6	60	-	45	1.5	100	1.41	23.16



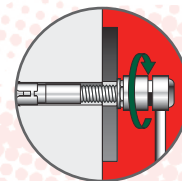
Drill your hole to the correct diameter...



...clear any debris...



...insert Through Bolt through fixture into hole...



...tighten to recommended tightening torque.



Fast and efficient installation, used for fixing suspended ceilings.



THROUGH BOLTS - Zinc Plated ETA Approved

Code	Size	Anchor Hole Size	Anchor Length	Thread Length	Fastens Up To	Min Hole Depth	Qty Per Box	Weight Kg Per 100	Price £ Per 100
0841E490067	M6 x 67	6	67	20	20	45	100	16.2	41.93
0841E490082	M6 x 82	6	82	20	35	45	100	20.7	48.03
0841E540075	M8 x 75	8	75	25	16	55	100	34.4	55.58
0841E540090	M8 x 90	8	90	25	34	55	100	40.0	57.53
0841E540100	M8 x 110	8	110	25	54	55	100	47.80	62.40
0841E540120	M8 x 120	8	120	25	64	55	100	50.9	66.30
0841E560090	M10 x 90	10	90	30	21	60	50	30.6	70.20
0841E560120	M10 x 120	10	120	30	51	60	50	40.0	80.93
0841E560145	M10 x 145	10	145	30	76	60	50	48.4	106.68
0841E580110	M12 x 110	12	110	35	30	80	25	26.2	105.30
0841E580145	M12 x 145	12	145	35	65	80	25	34.8	126.75
0841E580160	M12 x 160	12	160	35	80	80	25	38.2	135.53
0841E580180	M12 x 180	12	180	80	100	80	25	42.1	181.35
0841E620115	M16 x 115	16	115	40	15	90	20	41.4	221.33
0841E620150	M16 x 150	16	150	40	48	95	20	50.4	235.95
0841E620180	M16 x 180	16	180	40	78	95	20	60.1	305.18
0841E640180	M20 x 180	20	180	45	57	110	10	49.6	399.21

The Through Bolts is a highly efficient throughbolt with excellent load bearing capacity in non-cracked concrete and close anchor spacing and edge distances.

A broad range of sizes and lengths make it a universal use anchor for medium to heavy duty applications. The ETA for Through Bolts with Stainless Steel expansion clip has been expanded to include reduced embedment depths in all diameters

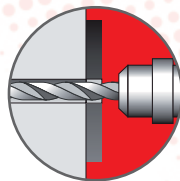


For loads for C20/25 30N/mm² CONCRETE.

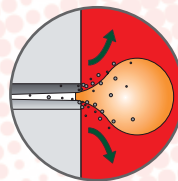
Shear loads are for loads away from a free edge.

Technical Information Through Bolts - Zinc Plated ETA

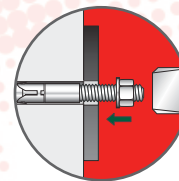
Thread Diameter (size)	Hole Diameter (mm)	Embedment Depth (mm)	Fixture Clearance Hole (mm)	Centre Spacing (mm)	Edge Distance (mm)	Structure Thickness (mm)	Approved Tensile Load kN	Approved Shear Load kN	Rec Tight Torque Nm
M6	6	55	7	120	60	100	4.1	2.9	8
M8	8	65	9	132	66	100	5.7	6.3	15
M10	10	70	12	144	72	100	7.6	8.0	30
M12	12	90	14	195	98	130	11.9	14.3	50
M16	16	95	18	246	123	170	16.7	23.6	100
M20	20	110	22	300	150	200	23.8	37.1	200



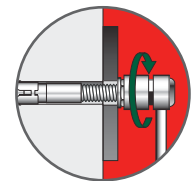
Drill your hole to the correct diameter...



...clear any debris...



...insert Through Bolt through fixture into hole...



...tighten to recommended tightening torque.

THROUGH BOLTS - Stainless Steel A4

Code	Size	Anchor Hole Size	Anchor Length	Thread Length	Fastens Up To	Min Hole Depth	Qty Per Box	Qty Per Outer	Weight Kg Per 100	Price £ Per 100
0841M490040SS	M6 x 40	6	40	16	5	27	100	1000	1.18	167.46
0841M490055SS	M6 x 52	6	52	20	15	35	100	1000	1.67	173.06
0841M490070SS	M6 x 67	6	67	20	20	35	100	1000	2.07	196.20
0841M490085SS	M6 x 82	6	82	20	35	35	100	1000	2.35	259.75
0841M540050SS	M8 x 50	8	50	25	10	35	50	500	2.74	189.14
0841M540065SS	M8 x 60	8	60	25	10	40	50	500	3.44	202.92
0841M540080SS	M8 x 80	8	80	25	24	40	50	500	3.84	217.20
0841M540095SS	M8 x 95	8	95	25	39	40	100	400	4.19	260.74
0841M560065SS	M10 x 60	10	60	30	10	40	50	500	4.62	294.20
0841M560080SS	M10 x 85	10	85	30	20	50	50	500	6.08	322.28
0841M560095SS	M10 x 95	10	95	30	26	50	50	250	6.96	378.27
0841M560120SS	M10 x 120	10	120	30	51	50	50	250	8.25	413.13
0841M560125SS	M10 x 125	10	125	30	56	60	50	250	8.40	430.24
0841M580075SS	M12 x 75	12	75	30	5	70	25	250	8.48	450.71
0841M580105SS	M12 x 105	12	105	35	25	70	25	200	10.40	492.32
0841M580115SS	M12 x 115	12	115	35	35	70	25	200	12.44	586.65
0841M580145SS	M12 x 145	12	145	35	65	70	25	150	15.22	651.92
0841M580180SS	M12 x 180	12	180	80	100	70	25	150	18.56	1038.53
0841M620100SS	M16 x 90	16	90	35	5	85	20	150	16.80	1099.55
0841M620130SS	M16 x 130	16	130	40	28	85	20	100	25.20	1116.46
0841M620150SS	M16 x 150	16	150	40	48	85	20	75	30.05	1333.77
0841M620180SS	M16 x 180	16	180	80	78	85	20	75	34.50	1603.50
0841M640160SS	M20 x 180	20	180	45	57	100	10	50	49.60	2673.47

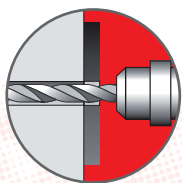


A4-316 Stainless Steel for maximum corrosion resistance, ideal in marine or coastal conditions.

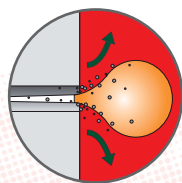
The Through Bolt A4 ETA is the stainless steel version of the zinc ETA throughbolt. It offers excellent load bearing capacities, close anchor spacing and edge distances. The ETA for Through Bolts with stainless steel expansion clip has been expanded to include reduced embedded depths in all diameters

Technical Information Through Bolts - Stainless Steel - A4

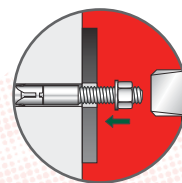
Thread Diameter (size)	Hole Diameter (mm)	Embedment Depth (mm)	Fixture Clearance Hole (mm)	Centre Spacing (mm)	Edge Distance (mm)	Structure Thickness (mm)	Rec Tensile Load kN	Rec Shear Load kN	Rec Tight Torque Nm
M6	6	35	7	120	60	100	3.6	4.0	6
M8	8	40	9	132	66	100	5.7	6.9	15
M10	10	50	12	144	72	100	7.6	8.0	25
M12	12	60	14	195	98	130	11.9	15.4	50
M16	16	70	18	246	126	170	17.2	28.6	100
M20	20	100	22	300	150	200	24.0	43.9	160



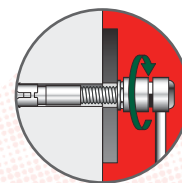
Drill your hole to the correct diameter...



...clear any debris...



...insert Through Bolt through fixture into hole...



...tighten to recommended tightening torque.

For loads for 30 N/mm² CONCRETE.

Shear loads are for loads away from a free edge.