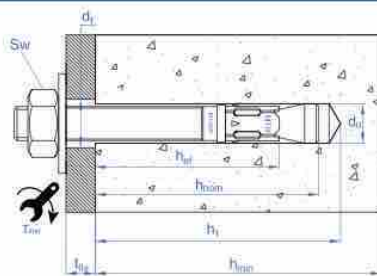
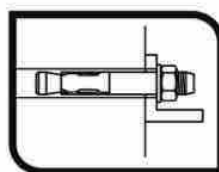
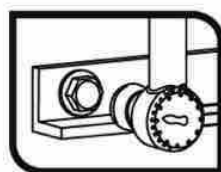
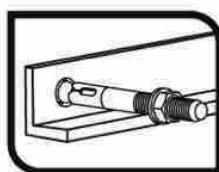
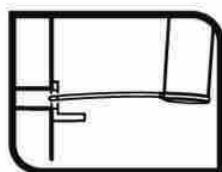
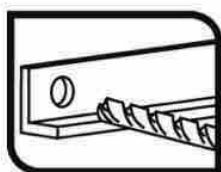


**MTH**

Through bolt anchor for heavy loads in non-cracked concrete



APPLICATION MODE

**MTH**

Option 7 ETA Assessed, Zinc-plated shaft, Zinc-plated clip.

CODE	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (Nm)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE	AXIS LETTER
AH06060	M6	60	6	55	100	7	50	2	7	60	120	10	385	297	B
AH06070	M6	70	6	55	100	7	50	12	7	60	120	10	385	297	C
AH06080	M6	80	6	55	100	7	50	22	7	60	120	10	385	297	D
AH06090	M6	90	6	55	100	7	50	32	7	60	120	10	385	297	E
AH06100	M6	100	6	55	100	7	50	42	7	60	120	10	385	297	E
AH06110	M6	110	6	55	100	7	50	52	7	60	120	10	385	297	F
AH06120	M6	120	6	55	100	7	50	62	7	60	120	10	385	297	G
AH08060	M8	60	8	50	100	9	50	3	20	53	105	13	485	508	B
AH08075	M8	75	8	65	100	9	60	5	20	72	144	13	676	542	C
AH08090	M8	90	8	65	100	9	60	20	20	72	144	13	676	542	E
AH08100	M8	100	8	65	100	9	60	30	20	72	144	13	676	542	E
AH08115	M8	115	8	65	100	9	60	45	20	72	144	13	676	542	G
AH08120	M8	120	8	65	100	9	60	50	20	72	144	13	676	542	G
AH08130	M8	130	8	65	100	9	60	60	20	72	144	13	676	542	H
AH08155	M8	155	8	65	100	9	60	85	20	72	144	13	676	542	J
AH10070	M10	70	10	60	100	12	54	3	35	60	120	17	667	667	C
AH10080	M10	80	10	60	100	12	54	13	35	63	126	17	667	667	D
AH10090	M10	90	10	75	110	12	67	10	35	83	165	17	922	856	E
AH10100	M10	100	10	75	110	12	67	20	35	83	165	17	922	856	E
AH10120	M10	120	10	75	110	12	67	40	35	83	165	17	922	856	G
AH10140	M10	140	10	75	110	12	67	60	35	83	165	17	922	856	H
AH10150	M10	150	10	75	110	12	67	70	35	83	165	17	922	856	I
AH10160	M10	160	10	75	110	12	67	80	35	83	165	17	922	856	J
AH10170	M10	170	10	75	110	12	67	90	35	83	165	17	922	856	K
AH10210	M10	210	10	75	110	12	67	130	35	83	165	17	922	856	N
AH10230	M10	230	10	75	110	12	67	150	35	83	165	17	922	856	P
AH12090	M12	90	12	70	100	14	60	13	60	90	175	19	867	867	E
AH12100	M12	100	12	85	130	14	77	8	60	75	150	19	1285	1200	E
AH12110	M12	110	12	85	130	14	77	18	60	98	195	19	1285	1200	F
AH12120	M12	120	12	85	130	14	77	28	60	98	195	19	1285	1200	G
AH12130	M12	130	12	85	130	14	77	38	60	98	195	19	1285	1200	H
AH12140	M12	140	12	85	130	14	77	48	60	98	195	19	1285	1200	H
AH12160	M12	160	12	85	130	14	77	68	60	98	195	19	1285	1200	J
AH12180	M12	180	12	85	130	14	77	88	60	98	195	19	1285	1200	L
AH12200	M12	200	12	85	130	14	77	108	60	98	195	19	1285	1200	M
AH12220	M12	220	12	85	130	14	77	128	60	98	195	19	1285	1200	O
AH12250	M12	250	12	85	130	14	77	158	60	98	195	19	1285	1200	Q
AH14120	M14	120	14	100	150	16	91	12	90	113	225	22	1592	1637	G
AH14145	M14	145	14	100	150	16	91	37	90	113	225	22	1592	1637	I
AH14170	M14	170	14	100	150	16	91	62	90	113	225	22	1592	1637	K
AH14220	M14	220	14	100	150	16	91	112	90	113	225	22	1592	1637	O
AH14250	M14	250	14	100	150	16	91	142	90	113	225	22	1592	1637	Q
AH16125	M16	125	16	110	168	18	104	3	120	126	252	24	1887	2237	G
AH16145	M16	145	16	110	168	18	104	23	120	126	252	24	1887	2237	I
AH16170	M16	170	16	110	168	18	104	48	120	126	252	24	1887	2237	K



CODE	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE	AXIS LETTER
AH16220	M16	220	16	110	168	18	104	98	120	126	252	24	1887	2237	Q
AH16250	M16	250	16	110	168	18	104	128	120	126	252	24	1887	2237	Q
AH16280	M16	280	16	110	168	18	104	158	120	126	252	24	1887	2237	S
AH20170	M20	170	20	135	206	22	125	23	240	155	309	30	2562	3279	K
AH20220	M20	220	20	135	206	22	125	73	240	155	309	30	2562	3279	O
AH20270	M20	270	20	135	206	22	125	123	240	155	309	30	2562	3279	S

MTH-A4

Stainless steel A4, Option 7 ETA Assessed, A4 Stainless clip.

CODE	MXL	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE	AXIS LETTER
MIA406045	M6 x 45	M6	45	6	35	100	7	35	1	7	40	75	10	306	287	A
MIA406060	M6 x 60	M6	60	6	50	100	7	49.5	2	7	60	120	10	438	287	B
MIA406080	M6 x 80	M6	80	6	50	100	7	49.5	22	7	60	120	10	438	287	D
MIA408050	M8 x 50	M8	50	8	35	100	9	35	4	20	40	75	13	225	270	A
MIA408075	M8 x 75	M8	75	8	60	100	9	59.5	5	20	72	144	13	582	522	C
MIA408090	M8 x 90	M8	90	8	60	100	9	59.5	20	20	72	144	13	582	522	E
MIA408115	M8 x 115	M8	115	8	60	100	9	59.5	45	20	72	144	13	582	522	G
MIA410070	M10 x 70	M10	70	10	54	100	12	53.5	3	35	60	120	17	485	667	C
MIA410090	M10 x 90	M10	90	10	67	110	12	66.5	10	35	83	165	17	647	834	D
MIA410120	M10 x 120	M10	120	10	67	110	12	66.5	40	35	83	165	17	647	834	G
MIA410150	M10 x 150	M10	150	10	67	110	12	66.5	70	35	83	165	17	647	834	I
MIA412075	M12 x 75	M12	75	12	55	100	14	55	5	60	65	130	19	576	691	C
MIA412090	M12 x 90	M12	90	12	62	100	14	62	13	60	90	175	19	647	867	D
MIA412110	M12 x 110	M12	110	12	77	130	14	77	12	60	98	195	19	1011	1207	F
MIA412140	M12 x 140	M12	140	12	77	130	14	77	42	60	98	195	19	1011	1207	I
MIA416090	M16 x 90	M16	90	16	69	100	18	69	4	120	75	150	24	701	841	D
MIA416145	M16 x 145	M16	145	16	104	168	18	103.5	23	120	126	252	24	1416	2256	I
MIA416170	M16 x 170	M16	170	16	104	168	18	103.5	48	120	126	252	24	1416	2256	K
MIA420120	M20 x 120	M20	120	20	93	145	22	93	5	240	110	225	30	1222	2933	G
MIA420170	M20 x 170	M20	170	20	125	206	22	125	23	240	155	309	30	2023	3521	K
MIA420220	M20 x 220	M20	220	20	125	206	22	125	73	240	155	309	30	2023	3521	O

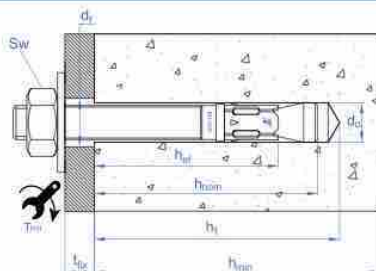
MTH-A2

Stainless steel A2, Option 7 ETA Assessed, A2 Stainless clip.

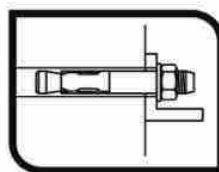
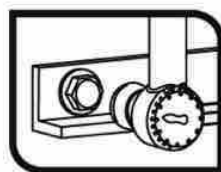
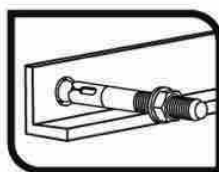
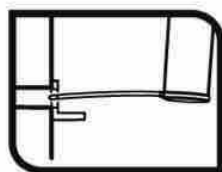
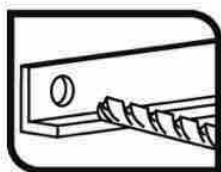
CODE	MXL	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE	AXIS LETTER
MI06045	M6 x 45	M6	45	6	40	100	7	35	1	7	40	75	10	306	287	A
MI06060	M6 x 60	M6	60	6	55	100	7	50	2	7	60	120	10	438	287	B
MI06080	M6 x 80	M6	80	6	55	100	7	50	22	7	60	120	10	438	287	D
MI06120	M6 x 120	M6	120	6	55	100	7	50	62	7	60	120	10	438	287	G
MI06140	M6 x 140	M6	140	6	55	100	7	50	82	7	60	120	10	438	287	I
MI06160	M6 x 160	M6	160	6	55	100	7	50	102	7	60	120	10	438	287	J
MI08050	M8 x 50	M8	50	8	40	100	9	35	4	20	40	75	13	225	270	A
MI08075	M8 x 75	M8	75	8	65	100	9	60	5	20	72	144	13	582	522	C
MI08090	M8 x 90	M8	90	8	65	100	9	60	20	20	72	144	13	582	522	E
MI08115	M8 x 115	M8	115	8	65	100	9	60	45	20	72	144	13	582	522	G
MI10070	M10 x 70	M10	70	10	60	100	12	54	3	35	60	120	17	485	667	C
MI10090	M10 x 90	M10	90	10	75	110	12	67	10	35	83	165	17	647	834	D
MI10120	M10 x 120	M10	120	10	75	110	12	67	40	35	83	165	17	647	834	G
MI10150	M10 x 150	M10	150	10	75	110	12	67	70	35	83	165	17	647	834	I
MI12075	M12 x 75	M12	75	12	60	100	14	55	5	60	65	130	19	576	691	C
MI12090	M12 x 90	M12	90	12	70	120	14	62	13	60	90	175	19	647	867	D
MI12110	M12 x 110	M12	110	12	85	130	14	77	18	60	98	195	19	1011	1207	F
MI12140	M12 x 140	M12	140	12	85	130	14	77	48	60	98	195	19	1011	1207	I
MI16090	M16 x 90	M16	90	16	75	100	18	69	4	120	75	150	24	701	841	D
MI16145	M16 x 145	M16	145	16	110	168	18	104	23	120	126	252	24	1416	2256	I
MI16170	M16 x 170	M16	170	16	110	168	18	104	48	120	126	252	24	1416	2256	K
MI20120	M20 x 120	M20	120	20	105	145	22	93	5	240	110	225	30	1222	2933	G
MI20170	M20 x 170	M20	170	20	135	206	22	125	23	240	155	309	30	2023	3521	K
MI20220	M20 x 220	M20	220	20	135	206	22	125	73	240	155	309	30	2023	3521	O

MTA

Through bolt anchor for heavy loads



APPLICATION MODE



MTA

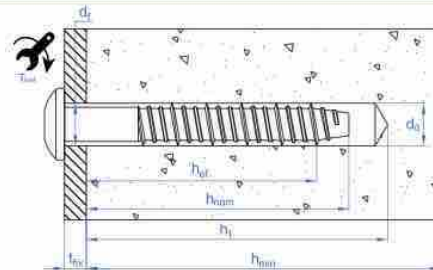
Zinc-plated shaft, Zinc-plated clip.

CODE	MIX	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE
AM06045	M6 x 45	M6	45	6	40	100	7	35	1	7	40	75	10	306	297
AM06055	M6 x 55	M6	55	6	40	100	7	35	11	7	40	75	10	306	297
AM06060	M6 x 60	M6	60	6	55	100	7	50	2	7	60	120	10	385	297
AM06065	M6 x 65	M6	65	6	55	100	7	50	7	7	60	120	10	385	297
AM06070	M6 x 70	M6	70	6	55	100	7	50	12	7	60	120	10	385	297
AM06080	M6 x 80	M6	80	6	55	100	7	50	22	7	60	120	10	385	297
AM06085	M6 x 85	M6	85	6	55	100	7	50	27	7	60	120	10	385	297
AM06090	M6 x 90	M6	90	6	55	100	7	50	32	7	60	120	10	385	297
AM06100	M6 x 100	M6	100	6	55	100	7	50	42	7	60	120	10	385	297
AM06110	M6 x 110	M6	110	6	55	100	7	50	52	7	60	120	10	385	297
AM06120	M6 x 120	M6	120	6	55	100	7	50	62	7	60	120	10	385	297
AM06130	M6 x 130	M6	130	6	55	100	7	50	72	7	60	120	10	385	297
AM06140	M6 x 140	M6	140	6	55	100	7	50	82	7	60	120	10	385	297
AM06150	M6 x 150	M6	150	6	55	100	7	50	92	7	60	120	10	385	297
AM06160	M6 x 160	M6	160	6	55	100	7	50	102	7	60	120	10	385	297
AM06170	M6 x 170	M6	170	6	55	100	7	50	112	7	60	120	10	385	297
AM06180	M6 x 180	M6	180	6	55	100	7	50	122	7	60	120	10	385	297
AM08050	M8 x 50	M8	50	8	40	100	9	35	4	20	40	75	13	270	270
AM08060	M8 x 60	M8	60	8	50	100	9	47	3	20	53	105	13	485	508
AM08065	M8 x 65	M8	65	8	50	100	9	47	8	20	53	105	13	485	508
AM08075	M8 x 75	M8	75	8	65	100	9	60	5	20	72	144	13	676	542
AM08090	M8 x 90	M8	90	8	65	100	9	60	20	20	72	144	13	676	542
AM08115	M8 x 115	M8	115	8	65	100	9	60	45	20	72	144	13	676	542
AM08120	M8 x 120	M8	120	8	65	100	9	60	50	20	72	144	13	676	542
AM08130	M8 x 130	M8	130	8	65	100	9	60	60	20	72	144	13	676	542
AM08155	M8 x 155	M8	155	8	65	100	9	60	85	20	72	144	13	676	542
AM10065	M10 x 65	M10	65	10	55	100	12	52	1	35	60	120	17	620	620
AM10070	M10 x 70	M10	70	10	60	100	12	54	3	35	63	125	17	667	667
AM10080	M10 x 80	M10	80	10	60	100	12	54	13	35	63	125	17	667	667
AM10090	M10 x 90	M10	90	10	75	110	12	67	10	35	83	165	17	922	856
AM10100	M10 x 100	M10	100	10	75	110	12	67	20	35	83	165	17	922	856
AM10120	M10 x 120	M10	120	10	75	110	12	67	40	35	83	165	17	922	856
AM10140	M10 x 140	M10	140	10	75	110	12	67	60	35	83	165	17	922	856
AM10150	M10 x 150	M10	150	10	75	110	12	67	70	35	83	165	17	922	856
AM10160	M10 x 160	M10	160	10	75	110	12	67	80	35	83	165	17	922	856
AM10170	M10 x 170	M10	170	10	75	110	12	67	90	35	83	165	17	922	856
AM10210	M10 x 210	M10	210	10	75	110	12	67	130	35	83	165	17	922	856
AM10230	M10 x 230	M10	230	10	75	110	12	67	150	35	83	165	17	922	856
AM12075	M12 x 75	M12	75	12	60	100	14	55	5	60	65	130	19	691	691
AM12080	M12 x 80	M12	80	12	70	100	14	62	3	60	75	150	19	867	867
AM12090	M12 x 90	M12	90	12	70	100	14	62	13	60	75	150	19	867	867
AM12100	M12 x 100	M12	100	12	85	130	14	77	8	60	98	195	19	1285	1200
AM12110	M12 x 110	M12	110	12	85	130	14	77	18	60	98	195	19	1285	1200
AM12120	M12 x 120	M12	120	12	85	130	14	77	28	60	98	195	19	1285	1200
AM12140	M12 x 140	M12	140	12	85	130	14	77	48	60	98	195	19	1285	1200
AM12160	M12 x 160	M12	160	12	85	130	14	77	68	60	98	195	19	1285	1200
AM12180	M12 x 180	M12	180	12	85	130	14	77	88	60	98	195	19	1285	1200
AM12220	M12 x 220	M12	220	12	85	130	14	77	128	60	98	195	19	1285	1200

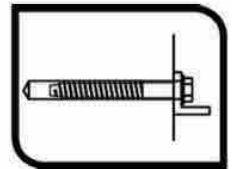
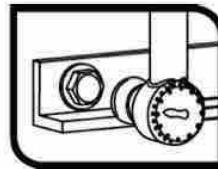
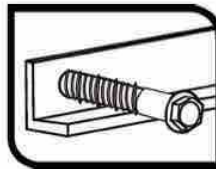
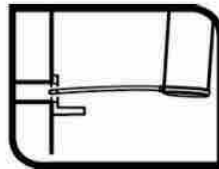
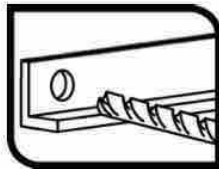
CODE	MXL	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE
AM12250	M12 x 250	M12	250	12	85	130	14	77	158	60	98	195	19	1285	1200
AM14080	M14 x 80	M14	80	14	65	100	16	59	5	90	65	130	22	667	667
AM14100	M14 x 100	M14	100	14	85	125	16	69	5	90	95	190	22	1197	1637
AM14120	M14 x 120	M14	120	14	100	150	16	91	12	90	113	225	22	1592	1637
AM14145	M14 x 145	M14	145	14	100	150	16	91	37	90	113	225	22	1592	1637
AM14170	M14 x 170	M14	170	14	100	150	16	91	62	90	113	225	22	1592	1637
AM14220	M14 x 220	M14	220	14	100	150	16	91	112	90	113	225	22	1592	1637
AM14250	M14 x 250	M14	250	14	100	150	16	91	142	90	113	225	22	1592	1637
AM16090	M16 x 90	M16	90	16	75	100	18	69	4	120	75	150	24	841	841
AM16110	M16 x 110	M16	110	16	75	100	18	69	7	120	75	150	24	1285	1592
AM16125	M16 x 125	M16	125	16	110	168	18	104	3	120	126	252	24	1887	2237
AM16145	M16 x 145	M16	145	16	110	168	18	104	23	120	126	252	24	1887	2237
AM16170	M16 x 170	M16	170	16	110	168	18	104	48	120	126	252	24	1887	2237
AM16220	M16 x 220	M16	220	16	110	168	18	104	98	120	126	252	24	1887	2237
AM16250	M16 x 250	M16	250	16	110	168	18	104	128	120	126	252	24	1887	2237
AM16280	M16 x 280	M16	280	16	110	168	18	104	158	120	126	252	24	1887	2237
AM20120	M20 x 120	M20	120	20	105	145	22	93	5	240	110	225	30	1467	2933
AM20170	M20 x 170	M20	170	20	135	206	22	125	23	240	155	309	30	2562	3279
AM20220	M20 x 220	M20	220	20	135	206	22	125	73	240	155	309	30	2562	3279
AM20270	M20 x 270	M20	270	20	135	206	22	125	123	240	155	309	30	2562	3279
AM24180	M24 x 180	M24	180	24	155	250	26	143	10	250	200	400	36	2023	4934
AM24260	M24 x 260	M24	260	24	155	250	26	143	80	250	200	400	36	2023	4934

TH

Concrete screw anchor with Silver Ruspert coating



APPLICATION MODE



TH-PAN

Panhead

CODE	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	OUTER Ø OF THREAD	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE
THPAN07050	7,5	50	6	43	100	9	33	17	20	45	45	T40	7,5	173	219

TH-TRU

Trus head

CODE	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	OUTER Ø OF THREAD	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE
THTRU07050	7,5	50	6	43	100	9	33	17	20	45	45	T30	7,5	173	219

TH-DEX

Hexagon head, Option 1 ETA Assessed

CODE	MXL	METRIC	LENGTH	DRILL Ø	HOLE DEPTH MIN.	MIN. SUBSTRATE THICKNESS	Ø ELEMENT TO FIX	MIN. ANCHOR DEPTH	MAX. FIXTURE THICKNESS	TORQUE (NM)	MIN. DISTANCE TO EDGE "A"	MIN. DISTANCE FROM AXIS "B"	INSTALLATION KEY	OUTER Ø OF THREAD	TENSION LOAD NON-CRACKED CONCRETE	SHEAR LOAD NON-CRACKED CONCRETE	TENSION LOAD CRACKED CONCRETE	SHEAR LOAD CRACKED CONCRETE
THDEX06030	6 x 30	6	30	5	40	100	7	33	2	7	45	45	8	6,3	110	172	-	-
THDEX06040	6 x 40	6	40	5	40	100	7	33	12	7	45	45	8	6,3	110	172	-	-
THDEX06050	6 x 50	6	50	5	55	100	7	45	5	7	45	45	8	6,3	221	413	-	-
THDEX06060	6 x 60	6	60	5	55	100	7	45	15	7	45	45	8	6,3	221	413	-	-
THDEX07035	7,5 x 35	7	35	6	43	100	9	33	2	20	45	45	10	7,5	173	219	-	-
THDEX07045	7,5 x 45	7	45	6	43	100	9	33	12	20	45	45	10	7,5	173	219	-	-
THDEX07060	7,5 x 60	7	60	6	65	100	9	55	5	20	63	126	10	7,5	364	437	243	437
THDEX07080	7,5 x 80	7	80	6	65	100	9	55	25	20	63	126	10	7,5	364	437	243	437
THDEX07100	7,5 x 100	7	100	6	65	100	9	55	45	20	63	126	10	7,5	364	437	243	437
THDEX10055	10 x 55	10	55	8	60	100	12	50	5	50	50	50	13	10,5	377	507	-	-
THDEX10065	10,0 x 65	10	65	8	70	100	12	60	5	50	67	135	13	10,5	485	949	364	528
THDEX10075	10,0 x 75	10	75	8	70	100	12	60	15	50	67	135	13	10,5	485	949	364	528
THDEX10090	10,0 x 90	10	90	8	70	100	12	60	30	50	67	135	13	10,5	485	949	364	528