



ENGLISH

# Datasheet

## ETA OPTION 7 THROUGH BOLT STAINLESS STEEL A4-316



### Features

A Grade A4-316 Stainless Steel, torque controlled through fixing suitable for use in non-cracked concrete range between C20/25 & C50/60.

- Through Fixing
- Medium to heavy duty loads
- Torque controlled expansion
- Supplied pre-assembled for rapid installation



ETA 07/0332  
Option 7 Non-Cracked Concrete

### Range Data

RS Stock No	Anchor Diam & Length	Hole Diam	Fixture Clearance Hole	Max. Fix. Thickness		Min Embedment Depth		Minimum Hole Depth	
				Standard Embedment	Reduced Embedment	Standard Embedment	Reduced Embedment	Standard Embedment	Reduced Embedment
				mm	mm	mm	mm	mm	mm
<b>1777063</b>	6x40	6	7	-	5	-	27	-	35
<b>1777062</b>	6x67			10	20	49	39	55	45
<b>6221922</b>	8x50	8	9	-	5	-	35	-	45
<b>6221944</b>	8x75			10	19	56	47	65	55
<b>6221950</b>	8x95			30	39				
<b>6221966</b>	10x85	10	12	10	16	62	56	70	65
<b>6221972</b>	10x125			50	56				
<b>6221994</b>	12x95	12	14	-	14	81	66	90	75
<b>6221988</b>	12x105			10	25				
<b>1777061</b>	12x115			20	35				
<b>6222004</b>	12x145			50	65				
<b>1777060</b>	16x115	16	18	-	14	99	83	110	95
<b>6222010</b>	16x130			10	26				
<b>1777031</b>	16x150			30	46				
<b>6222105</b>	16x180			60	76				



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## Standard Embedment

Performance Data (20/25 Non-Cracked Concrete)											
Thread Diam	Minimum Structure Thickness	Characteristic Resistance		Design Resistance		Recommended		Design Spacing	Design Edge Distance		Tight. Torque
mm	mm	kN		kN		kN		mm	mm		Nm
		Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
<b>6<sup>(1)</sup></b>	<b>100</b>	7.5	7	4.8	5.6	3.6	3.9	35	35	65	6
<b>8<sup>(1)</sup></b>	<b>100</b>	12	12	7.9	9.6	5.7	6.8	85	85	105	15
<b>10</b>	<b>100</b>	16	16.7	10.6	11.1	7.4	8	130	115	120	25
<b>12</b>	<b>135</b>	25	27	16.6	21.5	11.9	15.4	175	155	195	50
<b>16</b>	<b>170</b>	36	50	24	39.9	17.1	28.6	240	195	325	100
<b>20</b>	<b>200</b>	50.5	86	33.5	61.4	23.9	43.9	300	275	445	160

Shear Loads towards a free edge are for single anchors where Spacing  $\geq 3 \times$  Edge Distance

## Reduced Embedment

Performance Data (20/25 Non-Cracked Concrete)											
Thread Diam	Minimum Structure Thickness	Characteristic Resistance		Design Resistance		Recommended		Design Spacing	Design Edge Distance		Tight. Torque
mm	mm	kN		kN		kN		mm	mm		Nm
		Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
<b>6<sup>(1)</sup></b>	<b>80</b>	6	8.3	3.8	5.5	2.7	3.9	35	55	65	6
<b>8<sup>(1)</sup></b>	<b>80</b>	9	10.4	5.9	6.9	4.3	4.3	75	85	85	15
<b>10</b>	<b>100</b>	12	13.7	7.9	9.1	5.7	6.5	95	95	95	25
<b>12</b>	<b>105</b>	17.8	17.8	11.9	11.9	8.5	8.5	150	145	120	50
<b>16</b>	<b>130</b>	25.8	51.7	17.2	34.4	12.3	24.5	195	160	330	100
<b>20</b>	<b>160</b>	34.7	69.5	23.1	46.3	16.5	33	235	200	385	160

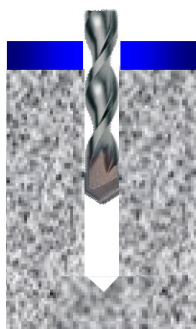
Shear Loads towards a free edge are for single anchors where Spacing  $\geq 3 \times$  Edge Distance

**(1)** Use restricted to anchorages of indeterminate structural components

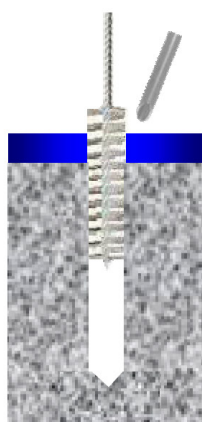
## Influence of concrete strength

Concrete strength		C20/25	C25/30	C30/37	C40/50	C45/55	C50/60
<b>Cylinder</b>	N/mm <sup>2</sup>	20	25	30	40	45	50
<b>Cube</b>	N/mm <sup>2</sup>	25	30	37	50	55	60
<b>Factor</b>		1	1.1	1.22	1.41	1.48	1.55

## Installation Instructions



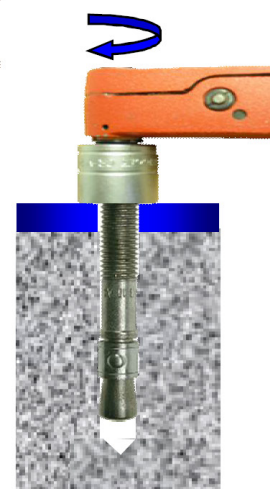
Position fixture and drill correct diameter hole to correct depth



Clean hole by brushing and blowing to remove all dust and drilling debris



Insert assembled anchor through fixture into concrete



Tighten with torque wrench to recommended torque