NA-TBA4

THROUGHBOLT NA STAINLESS STEEL A4

The Stainless Steel Through bolt is a torque controlled through fixing suitable for use in concrete from C20/25 to C50/60. Manufactured from Grade A4-316 Stainless Steel it offers good corrosion resistance outdoors and in wet internal conditions together with excellent load bearing capacities.

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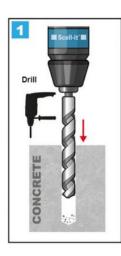
FEATURES

- Through fixing
- Suitable for indoor and outdoor use
- Medium to Heavy Duty applications
- Torque controlled expansion
- Supplied pre-assembled for rapid installation

Part Number	Thread Diameter	Anchor Length	Hole Diameter	Maximum Fixlure Thickness	Fixture Clearance Hole	Thread Length	Embedment Depth	Mimimum Hole D epth	Minimum Structure Thickness	Tightening Torque
mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	
NA-TBA4-08075	8	75	0	8 10	9	25	55		100	15
NA-TBA4-08100	0	100		30	9	25		65	100	
NA-TBA4-08120		120	1	55	[]	25				
NA-TBA4-10080		85	10 10 <u>30</u> 50	10	12	30	60			
NA-TBA4-10100	10	105		30		30		70	100	25
NA-TBA4-10120		120		50		30				
NA-TBA4-12100		105		10		35				
NA-TBA4-12120	12	120	12	20	14	35	80	90	130	50
NA-TBA4-12140		140	1	50		35	00	90		
NA-TBA4-16125	16	130	16	10	18	40			170	100
NA-TBA4-16145	10	145	10	30	10	40	98	110	170	100

RANGE DATA

INSTALLATION



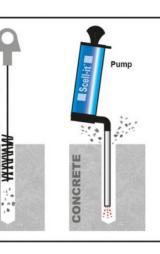
2

Brush

CONCRETE

1. Drill the hole Drilling must follow manufacturer's recommended values for depth and diameter of anchor.

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2. Clean the hole Remove dust and debris from the hole with a pump and/or a suitably sized brush (preferably a wire brush).

3. Place the anchor Place the anchor through the fixture/material to be fixed and into the hole, at the correct angle.

CONCRETE

3

Hamm

4. Apply torque Tighten the anchor to recommended torque with a torque wrench.

CONCRET

Torque Wrench

4

Construction Fixings Rivets & Rivnuts Tel: 01785 246539 Email: sales@scellit.co.uk

Setting Tools www.scellit.co.uk

Scell-it® UK Ltd, Unit 7, Beacon Industrial Estate, Weston Road, Stafford ST18 0DG.

DATA SHEET

THROUGHBOLT NA STAINLESS STEEL A4

PERFORMANCE DATA (20/25 Concrete)

Thread Diameter mm	Characteristic Resistance kN		Design Resistance kN		Approve k	ed Load N	Spacing mm	Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Temile	Shear
6	7.5	7.	5.0	5.6	3.6	4.0	35	35	100
8	12.0	12.0	8.0	9.6	5.7	6.9	85	85	165
10	16.0	16.8	10.7	11.2	7.6	8.0	130	115	180
12	25.0	27.0	16.7	21.6	11.9	15.4	175	160	280
16	36.1	50.0	24.0	40.0	17.2	28.6	240	205	420
20	50.4	86.0	33.6	61.4	24.0	43.9	300	280	515

Shear Loads towards a free edge are for single anchors where Spacing > 3 x Edge Distance

Reduced Design Resistance (kN) • Divide Loads by 1.4 for Approved Loads

Edge		Te	ensile Re	esiistano	e		Shear Resistance						
mm	M6	M8	M10	M12	M16	M20	M6	M8	M10	M12	M16	M20	
35	5.0						1.6						
50		6.0			1		2.7	3.0					
55	-	6.3					31	3.4	3.7			-	
65		6.8					3.9	4.4	4.8				
75		7.5	8.1		1		45	5.0	5.5	6.6		6	
85	-	8.0	8.7	-			5.0	5.6	6.1	8.0	9.1		
9			9.4				55	6.1	6.7	8.9	10.7		
100			9.7				56	6.4	6.9	9.3	11.6	13.0	
115			10.7	13.3				7.2	7.8	10.4	13.6	16.0	
125				14.1				7.7	8.4	11.2	14.6	18.1	
135				14.8	-			8.2	8.9	11.9	15.5	20.2	
160				16.7	20.0			9.4	10.3	13.7	17.9	23.2	
165					20.4			9.6	10.5	14.1	18.4	23.8	
170					20.9				10.8	14.4	18.8	24.4	
180					21.8		1		11.2	15.1	19.8	25.6	
200					23.6	26.7				16.5	21.6	28.0	
205			-		24.0	26.8	1.7			16.9	22.0	28.6	
230				- 1		29.0				18.6	24.2	31.4	
250						30.8				19.9	26.0	33.7	
280						33.6		-	-	21.6	28.5	37.0	
300											30.2	39.2	
320											31.9	41.4	
370											36.0	46.7	
420											40.0	51.9	
470										-		57.0	
470												60.0	
515							-					61.4	

Spacing	Ter	nsile Res	sistance	per Pair	of Anch	ors
mm	M6	M8	M10	M12	M16	M20
35	10.0	12.4				
40		12.8				
45		13.2	14.7			
50		13.5	15.1		1	
60		14.3	15.8	23.0		
65		14.6	16.2	23.5	-	
75		15.4	17.0	24,4	1	
BO		15.8	17.4	24.8	32.1	
85		16.0	17.8	25.3	32.6	
100			18.9	26.6	34.1	44.8
105			19.3	27.1	34.6	45.4
110		1	19.7	27.5	35.1	45.9
115			20.1	28.0	35.6	46.5
130		1	21.3	29.4	37.1	48.2
150				31.2	39.1	50.4
175				33.3	41.6	53.2
200				-	44.1	56.0
215				1	45.6	57.7
230					47.1	59.4
240		-			48.1	60.5
270						63.8
300		1				67.2

Influence of Concrete Strength

Concrete Strength		C20/25	C25/30	C30/37	C40/50	C45/55	C50/60
Cylinder	N/mm ²	20	25	30	40	4	50
Cube	N/mm ²	25	30	37	50	55	60
Factor		1	1.1	1.22	1.41	1.48	1.55

When using concrete factors check all other information to ensure Steel Tensile and Shear Resistance is not exceeded

Steel Design Resistance for single anchor

		M6	M8	M10	M12	M16	M20
Tension	kN	6.6	12.0	20.0	29.3	58.6	79.7
Shear	kN	5.6	9.6	11.2	21.6	40.0	61.4

Anchor Mechanical Properties

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		M6	M8	M10	M12	M16	M20
Tensile Strength	N/mm ²	700	700	700	700	700	700
Yield Strength	N/mm ²	450	450	450	450	450	450
Nut A/F	mm	10	13	17	19	24	30
Washer Diameter	mm	12	17	21	24	30	37

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