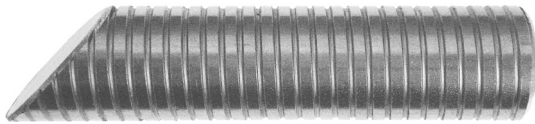




# Datasheet

## Internal Threaded Sockets

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### Features

The Internal threaded Sockets provide a flush fixing which allows for the attachment of a suitable bolt or threaded rod.

Available in Zinc Plated, A2/304 and A4/316 Stainless Steel versions.

They are:

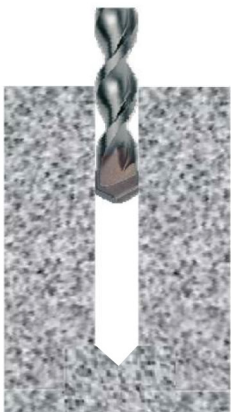
- Expansion free
- High load
- Close Spacing and Edge Distance
- Allows removal of bolt to leave a re-usable socket in place

### Range Data

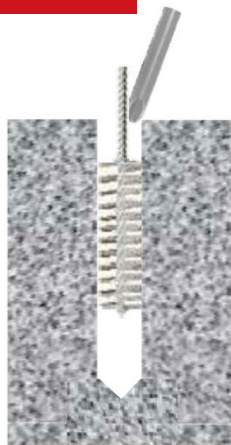
Socket Data

RS Stock No			Thread Diameter	Socket Length	Internal Thread Length	Drill Hole Diameter	Minimum Hole Depth	Fixture Clearance Hole	Minimum Structure Thickness	Installation Torque
Zinc Plated	Stainless Steel A2/304	Stainless Steel A4/316								
<b>1776904</b>	<b>1776899</b>	<b>1776896</b>	8	90	30	14	90	10	110	7
<b>1776903</b>	<b>1776898</b>	<b>1776895</b>	10	90	35	18	90	12	120	11
<b>1776902</b>	<b>1776897</b>	<b>1776879</b>	12	90	40	25	90	14	140	25
<b>1776901</b>	-	-	16	125	40	28	125	18	160	50

### Installation Instructions



Drill correct diameter hole to correct depth



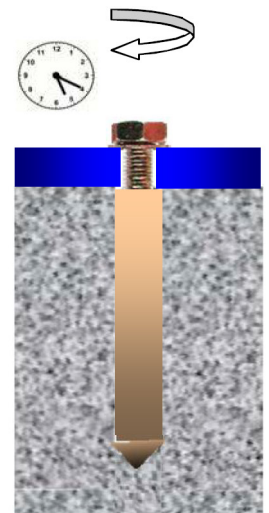
Clean hole by brushing and blowing to remove all dust and drilling debris



Insert Spin In Capsule with air bubble nearest to surface of concrete



Attach setting tool to socket and spin in with drilling machine using rotary hammer action flush with surface



Allow resin to cure, attach fixture, insert bolt and tighten to Recommended Torque

For injection resin inject resin to fill hole approx 1/3 full and insert socket rotating by hand to ensure even distribution of resin.

For injection resin installation it is advisable to insert a bolt into the socket prior to installation to prevent resin entering the internal thread of the socket.



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## Non-Cracked concrete

Performance Data (20/25 Concrete)

Thread Diam mm	Characteristic Resistance kN		Design Resistance kN		Recommended kN		Design Spacing mm	Design Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
8	25.6	9	12.2	7.2	8.7	5.7	135	80	90
10	35.5	14	16.9	11.2	12.1	8.5	180	90	125
12	43.5	21	20.7	16.8	14.8	11.3	200	100	160
16	76.9	39	36.6	31.2	26.1	14.2	250	125	270

Shear Resistance towards a free edge is for single anchors where Spacing  $\geq 3 \times$  Edge Distance  
Loads are for Grade 5.8 Bolts and Grade 70 Stainless Steel Bolts

## Influence of concrete strength

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

When using concrete factors check all other information to ensure Steel Strength and Pull out Resistance is not exceeded

## Steel Design Resistance for single anchor

		M8	M10	M12	M16	-
Tension	kN	12	19.3	28	52	Grade 5.8 Bolts
	kN	13.9	21.4	31.5	58.8	Stainless Steel Grade 70
Shear	kN	7.2	11.2	16.8	31.2	Grade 5.8 Bolts
	kN	8.3	12.8	18.5	35.2	Stainless Steel Grade 70

## Anchor mechanical properties

		M8	M10	M12	M16	-
Nominal Tensile Strength	N/mm <sup>2</sup>	500	500	500	500	Zinc plated
		700	700	700	700	Stainless Steel
Yield Strength	N/mm <sup>2</sup>	400	400	400	400	Zinc plated
		450	450	450	450	Stainless Steel