# Heavy Duty Anchor

Specification

Stainless Steel

ETA 07/0331

## Product Information

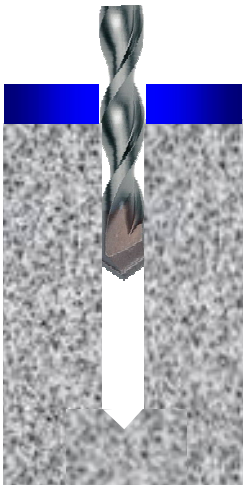
An A4 Stainless Steel, torque controlled through fixing suitable for use in cracked and non-cracked concrete range between C20/25 & C50/60.

## Features

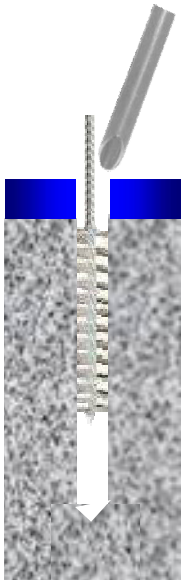
Through Fixing
Heavy duty loads
Torque controlled expansion
Option 1 European Technical Approval
Supplied pre-assembled for rapid installation

## Range Data

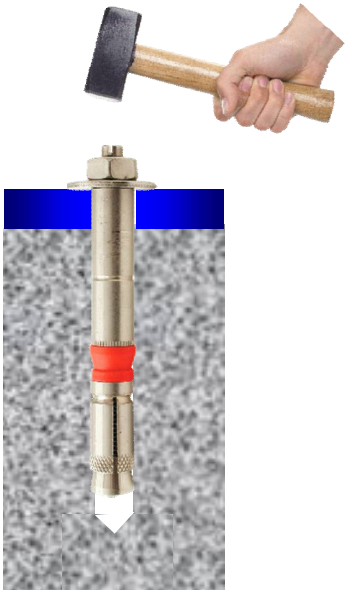
| Part Number | Thread Diam | Anchor Length | Drill Hole Diam | Maximum Fixture Thickness | Fixture Clearance Hole | Embedment Depth | Minimum Hole Depth | Structure Thickness | Nut Across Flats | Installation Torque |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | Nm |
| SLB12/10SS | 8 | 87 | 12 | 10 | 14 | 70 | 80 | 125 | 13.0 | 30 |
| SLB12/30SS | | 107 | | 30 | | | | | | |
| SLB14/15SS | 10 | 108 | 15 | 15 | 17 | 85 | 95 | 145 | 17.0 | 50 |
| SLB14/25SS | | 118 | | 25 | | | | | | |
| SLB18/10SS | 12 | 117 | 18 | 10 | 20 | 95 | 105 | 165 | 19.0 | 80 |
| SLB18/20SS | | 127 | | 20 | | | | | | |
| SLB18/40SS | | 147 | | 40 | | | | | | |



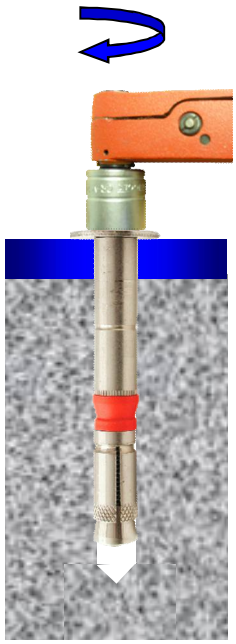
Position fixture and drill correct diameter hole to correct depth



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

# Heavy Duty Anchor

## Stainless Steel

### Non-Cracked concrete

| Performance Data (20/25 Concrete) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Diam mm | Characteristic Resistance kN | | Design Resistance ($\gamma_{Ms}$frpm ETA) kN | | Approved Resistance($\gamma_F$=1.4) kN | | Design Spacing mm | Design Edge Distance mm | |
| | Tensile | Shear | Tensile | Shear | Tensile | Shear | Tensile & Shear | Tensile | Shear |
| 8 | 16.0 | 24.0 | 10.6 | 19.2 | 7.5 | 13.7 | 130 | 105 | 185 |
| 10 | 25.0 | 37.0 | 16.6 | 29.6 | 11.8 | 21.1 | 310 | 185 | 265 |
| 12 | 35.2 | 65.0 | 23.3 | 43.3 | 16.6 | 35.4 | 500 | 255 | 360 |

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

### Cracked concrete

| Performance Data (20/25 Concrete) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Diam mm | Characteristic Resistance kN | | Design Resistance ($\gamma_{Ms}$frpm ETA) kN | | Approved Resistance ($\gamma_F$=1.4) kN | | Design Spacing mm | Design Edge Distance mm | |
| | Tensile | Shear | Tensile | Shear | Tensile | Shear | Tensile | Tensile | Shear |
| 8 | 9.0 | 24.0 | 6.0 | 19.2 | 4.2 | 13.7 | 70 | 75 | 185 |
| 10 | 16.0 | 37.0 | 10.6 | 29.6 | 7.5 | 21.1 | 105 | 90 | 265 |
| 12 | 25.7 | 51.2 | 17.1 | 34.3 | 12.2 | 24.5 | 240 | 165 | 280 |

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

For variations in structure thickness, reduced spacing and edge calculations download the free Anchor Calculation Program from www.jcpfixings.co.uk

### Influence of concrete strength

| **Concrete strength** | | C20/25 | C25/30 | C30/37 | C40/50 | C45/55 | C50/60 |
|---|---|---|---|---|---|---|---|
| Cylinder | N/mm² | 20 | 25 | 30 | 40 | 45 | 50 |
| Cube | N/mm² | 25 | 30 | 37 | 50 | 55 | 60 |
| Factor | | 1.0 | 1.1 | 1.22 | 1.41 | 1.48 | 1.55 |

When using concrete factors take care not to exceed Characteristic Steel Failure available from ETA

JCP Construction Products, Unit 14 Teddington Business Park, Station Rd, Teddington, Middlesex TW11 9BQ
Telephone 020 8943 1800 email:- jcpenquiries@owlett-jaton.com Web:- www.jcpfixings.co.uk