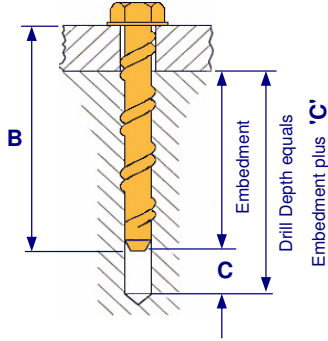


# Excalibur Screwbolt Data

## 12mm

### Screwbolt Fixing Details



### Drill Bit Diameter

Concrete & Brick	12.0mm
Soft Materials	11.0mm
Clearance Drill Diameter	15.0mm

### Screwbolt Head Styles & Dimensions

Flange Hexagon	<b>HSB</b>	19mm A/Flats Hexagon Flange Diameter 25mm	
Eyebolt	<b>EYB</b>	EYB 12/120 25mm Internal Diameter Safe Load on eye 16.11 kN	
Hexagon Socket Dome	<b>DSA</b>	25mm Head Diameter 10mm A/Flats Hex. Drive	
Hexagon Socket Countersunk	<b>HSA</b>	28mm Head Diameter 10mm A/Flats Hex. Drive	
Hookbolt	<b>HYB</b>	22mm Internal Diameter Safe Load on hook 8.33 kN	
Eyebolt	<b>EYB</b>	22mm Internal Diameter Safe Load on eye 16.11 kN	
Studbolt	<b>SSB</b>	8mm A/Flats Hexagon Drive M12 Metric Thread	

### Hexagon - Hook - Eye - Studbolt

Type Number.	Head Style	Max. Fixing Thickness A (mm)	U/Head Length B (mm)	Clearance Depth C (mm)	Metric Thread M (mm)	Stud Length L (mm)	Box Quantity
HSB 12/075	Hexagon Head	20	75	24	-	-	50
HSB 12/100	Hexagon Head	46	100	24	-	-	50
HSB 12/150	Hexagon Head	96	150	24	-	-	50
EYB 12/075	Eye Bolt	-	75	24	-	-	25
HYB 12/075	Hook Bolt	-	75	24	-	-	25
SSB 12/100	Stud Bolt	-	100	24	30	100	50

### Tamperproof - Hexagon Drive Countersunk and Dome Heads

HSA 12/075	Countersunk Head	20	75	24	-	-	50
HSA 12/100	Countersunk Head	46	100	24	-	-	50
HSA 12/150	Countersunk Head	96	150	24	-	-	50
DSA 12/075	Dome Head	20	75	24	-	-	50
DSA 12/100	Dome Head	46	100	24	-	-	50
PL/12 Plug	For converting HSA & DSA Screwbolts into TAMPERPROOF ANCHORS						50

### HYB, EYB, SSB, CSB, DSA, HSA & HSB Ultimate & Safe Load Characteristics based on 3:1 ratio

Material	Embedment Depth	Tensile Load kN.		Shear Load kN.		
		Ultimate	Safe	Ultimate	Safe	
Concrete	60 N/mm <sup>2</sup>	60mm	38.70	12.90	-	-
		90mm	69.00	23.00	59.80	19.93
	30 N/mm <sup>2</sup>	60mm	26.50	8.83	-	-
		90mm	43.00	14.33	59.80	19.93
Engineering Brick	100 N/mm <sup>2</sup>	45mm	20.00	6.67	-	-
Semi-Engineering Brick	70 N/mm <sup>2</sup>	45mm	15.00	5.00	-	-
Fletton	20 N/mm <sup>2</sup>	45mm	15.80	5.27	-	-
Butterly	20 N/mm <sup>2</sup>	45mm	5.10	1.70	-	-
Hemelite	3.5 N/mm <sup>2</sup>	75mm	12.10	4.03	-	-
Topcrete	7.0 N/mm <sup>2</sup>	75mm	18.90	6.30	-	-

For Edge distances see page 10