



Excalibur Screwbolt Hexagon Head (HSB) 8mm

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PLEASE NOTE

From time to time, materials and specifications are changed to improve performance, please check for the latest information.

For additional technical data please call the Sales Desk:

01702 206 962 / 01702 207 909

HSB 8mm Options

Screwbolt Diameter	Head Details and Diameter	Clearance Hole Diameter	Max Fixing Thickness 'A'	Thread Length 'B'	Clearance Depth 'C'	Box Quantity	Order code:
8mm	13mm Hex. Drive Flange Dia 16.5mm	10mm	14mm	50mm	16mm	100	HSB 08 / 050
8mm		10mm	39mm	75mm	16mm	100	HSB 08 / 075
8mm		10mm	50mm	100mm	16mm	100	HSB 08 / 100

Drill Bit Diameter	Concrete and Brick	8.0mm
	Soft Materials	7.0mm

HSB Ultimate & Safe Load Characteristics based on 3:1 Ratio

Material		Embedment Depth (mm)	Tensile Load kN.		Shear Load kN.		Maximum Torque Nm. **
			Ultimate	Safe	Ultimate	Safe	
Concrete	60 N/mm ²	40	20.50	6.83	-	-	-
	60 N/mm ²	60	28.50	9.50	25.50	8.50	-
Concrete	30 N/mm ²	40	14.60	4.87	-	-	-
	30 N/mm ²	60	21.00	7.00	25.50	8.50	-
Engr. Brick	100 N/mm ²	45	17.20	5.73	-	-	-
Semi.Engr.	70 N/mm ²	45	12.60	4.20	-	-	-
Fletton	20 N/mm ²	45	8.20	2.73	-	-	-
Butterly	20 N/mm ²	45	3.50	1.17	-	-	-
Hemelite	3.5 N/mm ²	75	6.30	2.10	-	-	10
Lignacite	3.5 N/mm ²	75	5.00	1.67	-	-	10
Topcrete	7.0 N/mm ²	75	11.20	3.73	-	-	15

**With softer materials, care should be taken not to exceed the maximum recommended torque, as this may result in the de-grading of the matrix.

HSB 8mm Technical Data

Material	Boron Steel BS3111/9/2.1.A
Finish	Mechanical Zinc as standard, or Zinc & Yellow passivated
Other finishes	Other platings & finishes are available to special order subject to quantity
Tensile strength	800N/mm ² Case hardened
Other sizes	Other lengths of all diameters are available to special order subject to quantity
Embedment concrete and brick	Minimum recommended is 4.5 × bolt diameter
Soft block	Minimum recommended is 75mm
Edge distance & spacings	For Edge distances between 5mm dia. and 10mm dia. see reduction factors

All dimensions in millimetres (mm)