



## Tamperproof - Hexagon Drive Countersunk (HSA) 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**

### HSA 8mm Options

Screwbolt Diameter	Head Diameter	Allen Key Size	Clearance Hole Diameter	Max Fixing Thickness 'A'	Thread Length 'B'	Clearance Depth 'C'	Box Quantity	Order code:
8mm	21mm	6mm	10mm	14mm	50mm	16mm	100	HSA 08 / 050
8mm	21mm	6mm	10mm	39mm	75mm	16mm	100	HSA 08 / 075
8mm	21mm	6mm	10mm	50mm	100mm	16mm	100	HSA 08 / 100
8mm	Plug For converting HSA & DSA Screwbolts into Tamperproof Anchors						100	PL / 08

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

### HSA 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 <sup>2</sup>	40	20.50	6.83	-	-	-
	60 N/mm <sup>2</sup>	60	28.50	9.50	25.50	8.50	-
Concrete	30 N/mm <sup>2</sup>	40	14.60	4.87	-	-	-
	30 N/mm <sup>2</sup>	60	21.00	7.00	25.50	8.50	-
Engr. Brick	100 N/mm <sup>2</sup>	45	17.20	5.73	-	-	-
Semi.Engr.	70 N/mm <sup>2</sup>	45	12.60	4.20	-	-	-
Fletton	20 N/mm <sup>2</sup>	45	8.20	2.73	-	-	-
Butterly	20 N/mm <sup>2</sup>	45	3.50	1.17	-	-	-
Hemelite	3.5 N/mm <sup>2</sup>	75	6.30	2.10	-	-	10
Lignacite	3.5 N/mm <sup>2</sup>	75	5.00	1.67	-	-	10
Topcrete	7.0 N/mm <sup>2</sup>	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.

### HSA 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 <sup>2</sup> 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 x bolt diameter
Soft block	Minimum recommended is 75mm
Edge distance & spacings	For Edge distances between 5 dia. and 10 dia. see reduction factors

### HSA 8mm Countersunk Head Dimensions

Screwbolt Size	Head Diameter - D		Head depth - E nom.	Hex socket size - F		Hex socket depth - G		Radius - R nom.
	min.	max.		min.	max.	min.	max.	
8mm	19.66	22.4	7.2	6.02	6.15	3.61	-	2.5

All dimensions in millimetres (mm)

