



Screwbolt Hexagon Head (HSB) 8mm

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 | Zinc & Yellow passivated as standard |
| 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)

PLEASE NOTE

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

Unit 14 Winterbeck Industrial Estate, Orston Lane, Bottesford, Nottinghamshire, NG13 0AU
 Tel: +44 (0) 1949 860400 Fax: +44 (0) 1949 860773
 Email: Sales@barenco.co.uk Web: www.barenco.co.uk