

TECHNICAL DATA SHEET

CHIPBOARD (HITECH) SCREWS

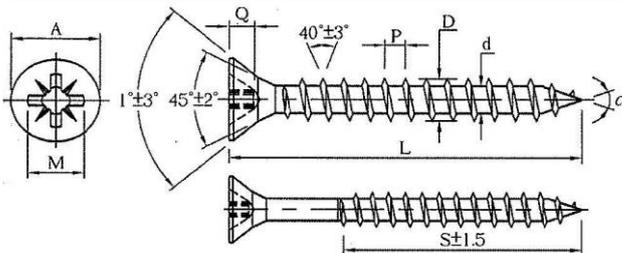


We confirm our range of Chipboard (Hitech) Screws are manufactured from C1022 Case Hardened Steel and have the following characteristics / specifications:-

| | |
|---------|---|
| HEAD: | Pozl, Double Countersunk |
| THREAD: | Fully threaded up to 60mm, partially threaded on all sizes thereafter |
| FINISH: | Zinc & Yellow, waxed (Corrosion resistance - Service Class 1 according to EN1995-1-1) |

The screws are CE certified to BS EN 14592:2008 for performance, results as follows:-

| Screw Size | M3.0 | M3.5 | M4.0 | M4.5 | M5.0 | M6.0 |
|--------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Nominal Diameter | 3.0mm | 3.5mm | 4.0mm | 4.5mm | 5.0mm | 6.0mm |
| Drive Recess (Pozl #) | 1 | 2 | 2 | 2 | 2 | 3 |
| Length | 10 to 50mm | 10 to 60mm | 12 to 80mm | 16 to 80mm | 20 to 140mm | 25 to 200mm |
| Yield Moment | 1,602 N/mm | 2,363 N/mm | 3,405 N/mm | 6,160 N/mm | 6,958 N/mm | 11,718 N/mm |
| Withdrawal resistance | 22.4 N/mm ² | 21.8 N/mm ² | 19.0 N/mm ² | 30.7 N/mm ² | 31.2 N/mm ² | 42.7 N/mm ² |
| Pull Through Resistance (Head) | 63.7 N/mm ² | 55.1 N/mm ² | 46.3 N/mm ² | 42.5 N/mm ² | 49.9 N/mm ² | 66.8 N/mm ² |
| Tensile Capacity | 389 N/mm ² | 363 N/mm ² | 363 N/mm ² | 380 N/mm ² | 350 N/mm ² | 388 N/mm ² |
| Torsional Strength | 1.52 Nm | 2.16 Nm | 3.36 Nm | 4.73 Nm | 6.06 Nm | 11.5 Nm |
| Torsional Resistance | 0.69 Nm | 0.73 Nm | 1.17 Nm | 1.76 Nm | 1.94 Nm | 3.83 Nm |
| Torsional Ratio | 2.20 | 2.96 | 2.87 | 2.69 | 3.12 | 3.00 |



| LENGTH TOLERANCE | |
|------------------|------------|
| to 11mm | +0 / -0.75 |
| 12-19mm | +0 / -0.90 |
| 20-34mm | +0 / -1.05 |
| 35-54mm | +0 / -1.25 |
| 55-90mm | +0 / -1.50 |
| 91-120mm | +0 / -2.00 |
| 121-200mm | +0 / -2.5 |

| Screw Size | M3.0 | M3.5 | M4.0 | M4.5 | M5.0 | M6.0 |
|-----------------------------|--------------|--------------|--------------|--------------|---------------|----------------|
| (A) Head Diameter (mm) | 5.50 to 6.00 | 6.50 to 7.00 | 7.50 to 8.00 | 8.50 to 9.00 | 9.50 to 10.00 | 11.50 to 12.00 |
| (M) Drive (mm) | 3.00 ref. | 4.00 ref. | 4.20 ref. | 4.40 ref. | 5.00 ref. | 6.30 ref. |
| (Q) Drive Recess Depth (mm) | 1.60 to 2.05 | 1.60 to 2.10 | 2.05 to 2.50 | 2.60 to 3.10 | 3.00 to 3.45 | 3.00 to 3.45 |
| (P) Thread Pitch (mm) | 1.35 | 1.60 | 1.80 | 2.00 | 2.20 | 2.60 |
| (D) Thread Diameter | 2.75 to 3.00 | 3.20 to 3.50 | 3.70 to 4.00 | 4.20 to 4.50 | 4.70 to 5.00 | 5.70 to 6.00 |
| (d) Shank Diameter | 1.70 to 2.00 | 1.90 to 2.20 | 2.20 to 2.50 | 2.45 to 2.70 | 2.80 to 3.10 | 3.50 to 3.80 |
| Torque (kg-cm) | 15 mln. | 20 mln. | 31 mln. | 44 mln. | 63 mln. | 110 mln. |
| Pozl Drive Size | 1 | 2 | | 3 | | |
| Material | C1022 Steel | | | | | |
| Surface Hardness (HV) | 500 ~ 750 | | | | | |
| Core Hardness (HRC) | 30 ~ 45 | | | | | |
| Bending Angle | 15° | | | | | |

This data sheet is valid until there is significant change in the product and characteristics.

Signed By:

Name:

Andy Bridge

Position:

Commercial Manager

Date:

20 July 2021