




PRODUCT DATA

S500 SDS Wafer Head

Self Drilling Screw (SDS) #12-24

| Applications | |
|--|--|
| <ul style="list-style-type: none"> • Metal to metal fixing • Thick steel purlins and hot rolled steel • Plumbing, steel fabrication and HVAC systems • Sarking to heavy steel frames | |

| | |
|-----------------|--|
| Material |  C1022 Hardened |
|-----------------|--|

| | |
|---------------|--|
| Finish |  Class 3 |
|---------------|--|

| Pullout Values | | | | |
|----------------|-----------------------|------------------------|----------------------------------|---------------------------|
| Plate (Purlin) | Metal Plate Thickness | ¹ Mean Load | ² Characteristic Load | ³ Working Load |
| | (mm) | (N) | (N) | (N) |
| G450 | 2.0 | 4150 | 3400 | 1350 |
| G450 | 2.5 | 6050 | 5200 | 2050 |
| G2 | 3.0 | 5750 | 5450 | 2150 |
| HRS | 5.0 | 10400 | 9500 | 3850 |

12 Gauge Wafer Head with S500 Extended Drill Point



| Drill Point Test | | | | | |
|------------------|-----------------------|------|-------------|---------------------------|------------------------|
| Plate (Purlin) | Metal Plate Thickness | Load | Drill Speed | Drill Time | Drill Time |
| | (mm) | (kg) | (RPM) | (Max. individual) Seconds | (Max. average) Seconds |
| HRS | 8 | 27 | 2200 | 10 | 7 |

| Mechanical Properties | | | | |
|-----------------------|------------------------------------|----------------------------------|--|--|
| Torsional Strength | ¹ Mean Tensile Strength | ¹ Mean Shear Strength | ² Characteristic Tensile Strength | ² Characteristic Shear Strength |
| (Nm) | (N) | (N) | (N) | (N) |
| 11.3 | 11100 | 6650 | 9500 | 5700 |

Note: 1000N = 1kN

¹ Mean Load/Strength is the average ultimate strength of samples tested.

² Characteristic Load/Strength: 95% of these screws are expected to have a strength greater than the loads shown.

³ Working Load is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factor of Safety (FOS=2.5 for steel, FOS=2.5 for timber and FOS=3.0 for concrete) are already included.

All values are obtained under laboratory conditions using DRILLX product. Safety factors should be considered for design purposes. Actual pullout loads may differ slightly depending on certain properties of the base material.

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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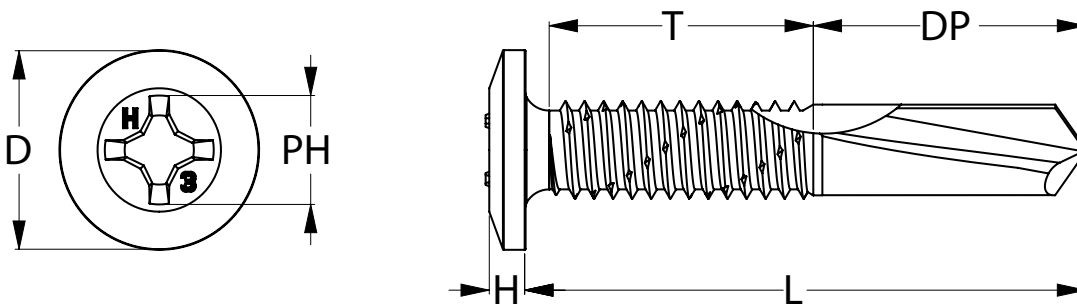




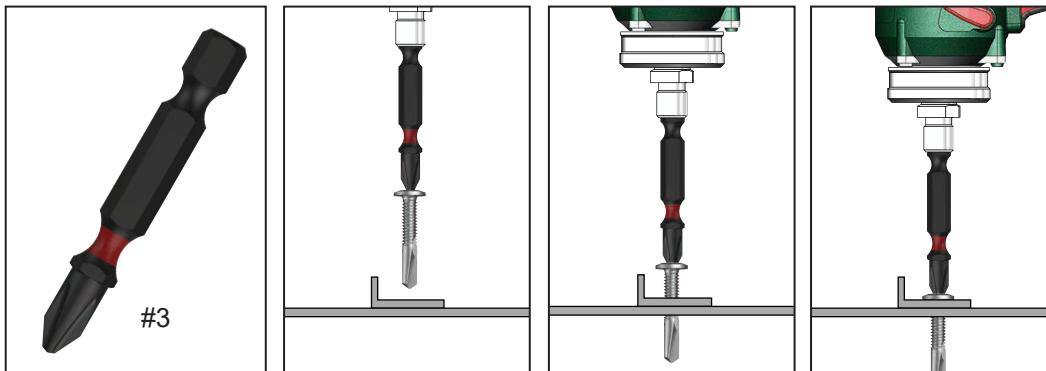
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S500 SDS Wafer Head

| Part | QFind | Gauge | TPI | Length | Thread Length | Drill Point Length | Head Height | Head ø | Drive Size | Pack Qty |
|----------------|-------|-------|-----|--------|---------------|--------------------|-------------|--------|------------|----------|
| | | | | L (mm) | T (mm) | DP (mm) | H (mm) | D (mm) | Phillips | |
| T9P53WP1224032 | QA18 | 12 | 24 | 32 | 16.5 | 15 | 2 | 11 | #3 | 1000 |
| T9P53WP1224038 | QA15 | | | 38 | 22.5 | | | | | |



Installation



Recommended
Phillips Size #3 inch Drive Bit:

| Part | QFind | Size (mm) |
|---------------|-------|-----------|
| TXDIPPHS30050 | B321 | 50 |
| TXDIPPHS30100 | BA28 | 100 |
| TXDIPPHS30150 | BA29 | 150 |

Installation Guide

1. Use a cordless screw driver set between 2,200-3,000 RPM. Fit the Phillips Drive Bit over the screw and place at the fastening position.
2. Apply consistently firm pressure to the screw driver while the screw is drilling.
3. Care should be taken not to over-tighten the screw.

*Installation with impact drivers not recommended.

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