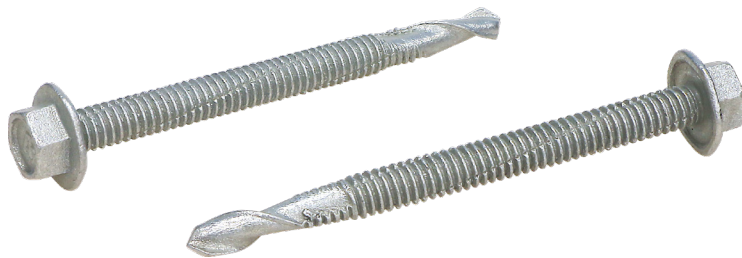


SQ500® SELF-DRILLING SCREW FOR METAL

CL4 HIGH DENSITY GALVANISED

SQ500 are a high performance self-drilling screws for connections to steel designed to drill up to 12mm of thickness.

SQ500 screws feature a spiral drill point providing the capacity to drill through steel up to 12mm. The 6.2mm diameter screw has threads along the full length of the screw – this fine thread will cut its own mating threads into the material to fasten securely in a single action.



TECHNICAL INFO:

Installation

We recommend the use of a drill driver on low speed, applying constant pressure. Do not use an impact driver as this may damage the screw – it is not recommend to over torque screws.

The drill point must be completely drilled through the joining material to ensure effective installation.

Maximum drilling capacity is for the self drilling and self tapping action of the screw. If elements of more than 12mm thickness are required to be connected, the hole in the top element being connected to the steel needs to be predrilled and 1-2mm oversized.

It is possible to self drill through multiple plates up to 12mm total thickness. However, these plates must be clamped together securely first.

- Drill Capacity:** 4.5 – 12.0mm for steel, 6.0 – 12.0mm for aluminium
- Driver Type:** 3/8" hex socket (10mm)
- Drill Speed:** 1,800 max RPM drill speed

Physical Characteristics

- Head Type:** Hex washer
- Point Type:** SQ500 self-drilling spiral point
- Material:** Carbon Steel
- Finish:** Class 4 high density galvanised
- Screw Diameter:** 6.2mm
- Washer Diameter:** 15.5mm
- Head Height:** 6.5mm

Corrosion Protection

Class 4 high density galvanized coating conforms to AS 3566 and ASTM B695

Coating thickness to 45microns minimum

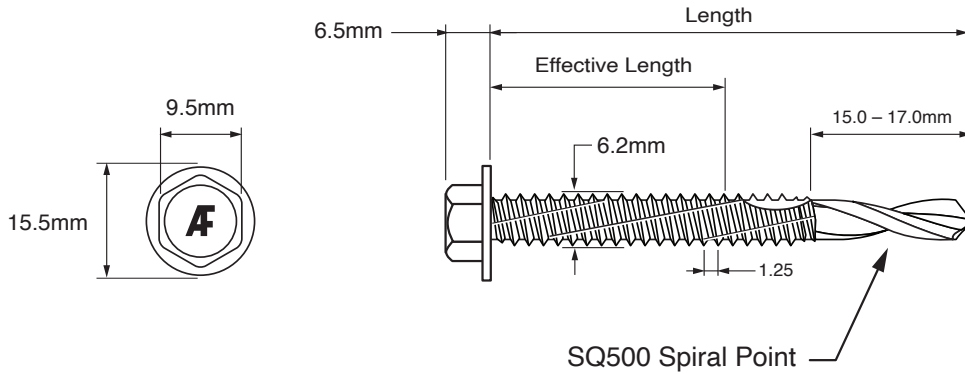
Meets 1,500 salt spray hours

No hydrogen embrittlement due to galvanising process



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PERFORMANCE DATA:



SKU	Description	Effective Length ¹⁾	Hex Socket	Thread		
1932.0140050	14-20 x 50mm	26mm	3/8"	20 tpi	150	900
1932.0140075	14-20 x 75mm	51mm			100	600

1) Total thickness of all connected elements must be less than this length to achieve full performance.

Pull-out WLL Capacities from 400 MPa (Yield) Steel					
Plate Thickness	3.0mm ²⁾	6.0mm	8.0mm	10.0mm	12.0mm
Tension capacity ¹⁾	1.7kN	6.2kN	6.3kN	6.9kN	7.2kN

1) FoS of 3.0 has been applied

2) For 3mm thick steel SD500 CL3 screws would be just as fast to install and more cost-effective.

Screw Mechanical Properties	
Steel Yield Stress	1,015MPa
WLL Screw Tension Strength ¹⁾	8.1kN
WLL Screw Single Shear Strength ¹⁾	4.3kN

1) FoS of 3.0 has been applied

Important Note: Whilst all reasonable care is taken in compiling technical data on the Company's products, all information, recommendations, or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable, and that in the light of our continual research and development programme the information relating to each product has not been superseded. Allfasteners, its agencies and employees, disclaim any and all liability in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

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