

# SQ800® M8 SELF-DRILLING SCREW FOR METAL

## CL4 HIGH DENSITY GALVANISED

SQ800 are a high performance self-drilling screws for connections to steel designed to drill up to 20mm of thickness.

SQ800 screws feature a spiral drill point providing the capacity to drill through steel up to 20mm. The 8mm 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 20mm 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 20mm total thickness. However, these plates must be clamped together securely first.

<b>Drill Capacity:</b>	6.0 – 20.0mm steel
<b>Driver Type:</b>	13mm hex socket
<b>Drill Speed:</b>	1,000 – 1,700 max RPM drill speed

### Physical Characteristics

<b>Head Type:</b>	Hex washer
<b>Point Type:</b>	SQ800 self-drilling spiral point
<b>Material:</b>	Carbon Steel
<b>Finish:</b>	Class 4 high density galvanised
<b>Screw Diameter:</b>	8.0mm
<b>Washer Diameter:</b>	17.3mm
<b>Head Height:</b>	7.0mm

### Corrosion Protection

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

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Coating thickness to 45microns minimum

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Meets 1,500 salt spray hours

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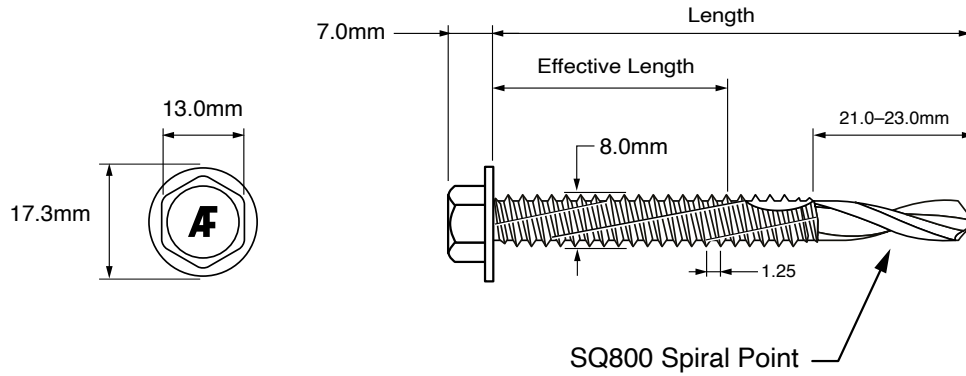
No hydrogen embrittlement due to galvanising process

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**PERFORMANCE DATA:**



SKU	Description	Effective Length <sup>1)</sup>	Hex Socket	Thread		
3SQ8HFC420065	M8-20 x 65mm	35mm	13mm	20 tpi	200	1200
3SQ8HFC420095	M8-20 x 95mm	63mm			150	900

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

Pull-out WLL Capacities from Mild Steel			
Plate Thickness	6.0mm	12.0mm	20.0mm
Tension capacity <sup>1)</sup>	6.3kN	10.7kN	10.7kN

1) FoS of 3.0 has been applied

Screw Mechanical Properties	
Stress Area	29.3mm <sup>2</sup>
Steel Yield Stress	1,070MPa
Breaking torque	46Nm
WLL Screw Tension Strength <sup>1)</sup>	10.7kN
WLL Screw Single Shear Strength <sup>1)</sup>	5.5kN

1) FoS of 3.0 has been applied

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