

Tek5 Self Drilling Screw Installation

Drill speed and torque:

When drilling through 1/4" or thicker steel it is important to use a slow rpm, high torque screw gun. 1,000 rpm's is the recommended speed. If you use a common 2,000 or 2,500 rpm screw gun to drill into 1/4" or thicker steel, you will burn up the points on the screws at an unacceptably high rate.



Installation pressure:

Installation pressure must be light. 30-40 lbs. of force is all that is needed to install these premium screws. Similar to a high quality drill bit, these screws work best when the installer allows the screw to do the work. With a 1,000 rpm screw gun and the proper force of 30-40 lbs. of pressure, your screw failure rate should be less than 1%.

Drilling through dead space:

When fastening through multiple layers of metal with dead space between them, metal decking over steel joists for instance, it may be necessary to drill out the first layer of steel (the metal decking) so the drill point can spin properly to drill the second layer (the steel joist). This is because the screw threads can engage in the steel of the first layer and drive the screw into the second layer faster than the drill point can drill the hole, resulting in broken screws. With the proper torque and rpm, the screws should perform this operation perfectly, however if you find the screws are failing when drilling through two layers, try drilling a clearance hole in the first layer.

