



Installation Guidelines

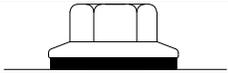
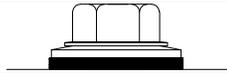
The following 5 installation guidelines were developed over years of application issues from our customers. While not all of the issues will be addressed by these 5 guidelines a majority of them will. By instructing your installation crew to follow these 5 guidelines a majority of issues will be avoided.

- 1) Correct Torque of Screw Gun
- 2) Correct Angle of Fastener
- 3) Proper Screw Gun
- 4) Proper Extension Cord
- 5) Light Pressure on fastener.

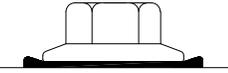
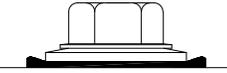
1) Correct Torque

Proper use of the screw gun can greatly reduce fasteners being over driven or under driven. Step one is to purchase the correct screw gun. Step two is to properly set the clutch or nosepiece of the screw gun. This is the number one installation error on the job.

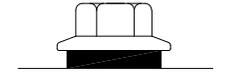
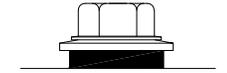
Driven Correctly

	One Piece Fasteners	Correct	Two Piece Fasteners
Sealing Material is only slightly visible. Washer is weather tight.			

Over Driven

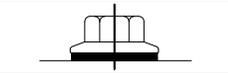
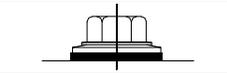
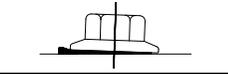
Sealing Material is extruded far from metal washer edge. Metal washer is deformed. Washer is cut or ripped. Fastener may also break.		Incorrect	
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Under Driven

Sealing washer not compressed. Assembly is loose.		Incorrect	
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2) Correct Angle

Fastener must be installed perpendicular to the panel. Being off for more than a few degrees can lead to washer leakage or premature washer degradation.

	One Piece Fasteners	Correct	Two Piece Fasteners
Fastener drilled perpendicular to panel. Washer is weather tight.			
Fastener drilled off angle to panel. Washer material is off to one side. Washer is cut or ripped.		Incorrect	

3) Proper Screw Gun

Standard 2000 to 2500 RPM variable speed screw guns with 5 to 8 amps and a positive clutch and or depth locating nosepiece are recommended. DO NOT USE IMPACT TYPE GUNS OR 4,000 RPM DRYWALL GUNS.

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4) Proper Extension Cord

For every foot of extension cord a percentage of voltage is lost. Proper extension cord gauge is essential for the screw gun to work properly. The following chart shows the proper gauge of the extension cord.

Extension cord length

Rated Amp for Gun	25'	50'	75'	100'	150'+
Up to 5	16	16	16	14	12
5.1 to 8.0	16	16	14	12	10

5) Do not force the fastener

Apply only enough pressure to allow the drill point to cut efficiently. Over assertion can make drill point break or over heat and melt. Applying too much pressure not only can flaw the install of the fasteners but can also cause undo strain and exhaustion of the installer.

One also asserts too much pressure when installing sheeting through a gap of insulation or air space and onto the substrate. This requires the fastener to thread the upper sheet and drill the lower sheet, purlin or other substrate at the same time. This force is strong enough (especially in decking applications) to break the fastener point at the substrate.

As a rule of thumb the thicker the material the slower the speed the installer should use. When installing into 12 gauge purlins max 2,500 rpm's can be used. When installing into ¼" steel using a 4.5 self driller or ½" steel using a 5 point 1,000 to 1,800 rpm's is recommended.