

### STAYING OUT OF TROUBLE AT THE JOB SITE

#### 1. VERIFY THE FOLLOWING EQUIPMENT IS BEING USED FOR INSTALLATION OF SELF DRILLING FASTENERS

<b>Dewalt DW266</b> a. 0 – 2,500 rpm b. VSR Depth Sensitive TEKS Scrugun c. 6.5 Amps	<b>Milwaukee 6780-20</b> a. 0 – 2,500 rpm b. 21 position clutch c. 6.5 amps
<b>Dewalt DW268</b> a. 0 – 2,500 rpm b. VSR Versa Clutch Scrugun c. 6.5 Amps	<b>Milwaukee 6790-20</b> a. 0 – 2,500 rpm b. Ramp off depth locator c. 6.5 amps

- a. Any other corded screw gun with a variable speed of 0 – 2,500 rpm and a minimum of 6 amps with either a depth locating nose piece or clutch system.
- b. Not using the above recommended screw guns properly will result in the following failures
  - i. Over driven fasteners resulting in leaks
  - ii. Under driven fasteners resulting in leaks
  - iii. Stripped out fasteners
- c. Under no circumstances may you use any of the following tools
  1. Any impact tool
  2. Any cordless tool
  3. Dry wall screw gun with up to 4,000 rpm

#### 2. VERIFY THE FASTENER IS THE CORRECT FASTENER FOR THE JOB

FASTENER SIZE – THREAD / INCH	POINT #	MINIMUM THICKNESS	MAXIMUM THICKNESS
#8 - 18	2	.036"	.080"
#10 - 16	3	.036"	.175"
#12 - 14	3	.036"	.210"
¼" - 14	3	.036"	.210"
#12 - 24	4	.125"	.250"
#12 - 24	4.5	.125"	.375"
#12 - 24	5	.125"	.500"
¼" - 20 / ¼" - 28	5	.125"	.500"

#### 3. VERIFY THE SCREW GUN IS POWERED BY NO LONGER THAN A 100' EXTENSION CORD OF #14 AWG MINIMUM

- a. A #14 AWG extension cord will lose approximately 5% - 10% power loss for every 100' of cord.

#### 4. VERIFY THE FASTENER IS NOT DRILLING INTO ANY AIR SPACE OR GAP BETWEEN JOINING METALS

- a. A standard Self Drilling "TEK" Fastener is unable to drill and tap threads at the same time.
  - i. If the steel materials you are joining together have insulation, drywall, wood, air space, between the two pieces of metal then the fastener will be drilling and threading at the same time. This will result in one of the following failures.
    1. Point melting
    2. Point breakage
    3. Fastener shank breakage
- b. DB stocks specially threaded fasteners with a gap in the threads for such applications. Please ask for DB's "Special Thread" fasteners for your unique application.

#### 5. VERIFY THE JOINING MATERIALS ARE SIMILAR METALS

- a. Carbon Steel Self Drilling "TEK" Fasteners are to be used in steel to steel applications only.
  - i. Wood to Steel "Reamer and Ply-Metal" fasteners are required for Wood to Steel Applications
  - ii. Dissimilar metal applications (aluminum to steel) require use of a specially designed hardened fastener. "Dril-flex and Tek Select" fasteners are manufactured specifically for aluminum to steel applications.