
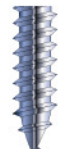
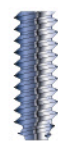

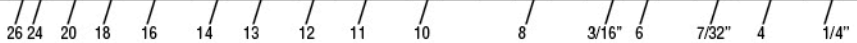




# HOW TO SPECIFY THE PROPER FASTENER

## Fastener Selection Guide

Various tapping and self-drilling fasteners with suggested drill bit sizes where applicable ••

	NOMINAL DIAMETER & ALLOY	Steel Panel or Structural Thickness																															
		.010	.020	.030	.040	.050	.060	.070	.080	.090	.100	.110	.120	.130	.140	.150	.160	.170	.180	.190	.200	.210	.220	.230	.240	.250							
<b>A</b> 	#8 PLT. STL.	PREDRILL NOT REQ'D																															
	#10 PLT. STL.	7/64"		9/64"																													
	#12 PLT. STL.	9/64"		11/64"																													
	#14 PLT. STL.	7/64"	3/16"		#8																												
	#14 300 S.S.	•	3/16"		#8																												
<b>AB</b> 	#12 PLT. STL.	1/8"		11/64"		3/16"																											
	#14 PLT. STL.	1/8"	3/16"		#8		#7		#1																								
	#17 PLT. STL.	3/16"***		1/4"***				17/64"***																									
	#14 300 S.S.	•	1/8"	3/16"		#8		#7		#1																							
	#17 300 S.S.	•	3/16"***		1/4"***				17/64"***																								
<b>B</b> 	#12 PLT. STL.					11/64"		3/16"																									
	#14 PLT. STL.					#8		#7		#1 *																							
	#14 300 S.S.	•					#8		#7		#1 *																						
<b>SELF DRILL</b> 	#8 PLT. STL.			***																													
	#10 PLT. STL.			***																													
	#12 PLT. STL.			***																													
	1/4" PLT. STL.			***																													
	#14 M/W PLT. STL.			PREDRILLED NOT REQ'D																													
<b>GAUGE REFERENCE</b>																																	

- (\*) Use drill bit for 3/16" to 3/8" thick steel - for heavier steel up to 1/2" use .231 bit.
- (\*\*) Drill bit sizes shown are for new construction applications - #17 AB fasteners are most often used as a repair screw for stripped #14 dia. fasteners in sidelap or structural attachments up to 11 ga. steel.
- (\*\*\*) Material thickness ranges indicated for self drill fasteners is substrate (structural) steel only. An unthreaded pilot section allowing for the panel thickness has been considered in the fastener design. When drilling through more than one thickness of structural steel (nested purlins) proper installation techniques must be used to assure adequate performance of the fastener.

- 300 series stainless steel fasteners require a screw driver with 600 to 800 maximum RPM.
  - Drill size recommendations assumes 50-55000 psi yield steel. Higher tensile steel may require adjustments in drill size to permit proper installation.
- Drill sizes shown for plated steel may be used for stainless steel.

All test results and suggestions are based on laboratory tests. Specific job site conditions should be taken into consideration when specifying the proper fastener. Because applications vary, we assume no liability for use of this information.