## SELF-DRILLING SCREWS



## **FASTENER SELECTION GUIDE**



**HEAD STYLE**: Determine if the head style chosen will ensure stability during driving, and give the desired finished appearance and corrosion resistance.



**THREAD DIAMETER & TYPE**: Make sure that the choice of threads will provide good connection strength. Use "Recommended Material Thickness" column in chart below.



**PILOT LENGTH**: Make sure that the drilling operation will be completed before the threading operation begins.



**FLUTE LENGTH**: Use the "Point Length" column in the chart below to determine if the point length is long enough.



**USE THE RIGHT TOOL**: A 1900 to 2500 RPM screwgun rated at 4.5 to 5 amps or more, with a properly adjusted depth-locating nosepiece must be used for the best fastening results.

TO USE	DIAMETER	RECOMMENDED MATERIAL THICKNESS	POIN <sup>-</sup> LENGT			
TYPE 2	NO. 4	.035 то .080	.140			
	NO. 6	.035 то .090	.140			
	NO. 8	.035 то .100	.156			
	NO.10	.035 то .110	.203			
	NO. 12	.035 то .187	.234			
	1/4"	.035 то .175	.296			
туре 3	NO. 6	.090 то .110	.171			
	NO. 8	.100 то .140	.203			
	NO. 10	.110 то .175	.250			
	NO. 12	.110 то .210	.281			
	1/4"	.110 то .220	.312			
TYPE 4	NO. 11	.175 то .312	.387			
	NO. 12	.210 то .375	.437			
	1/4"	.250 то .375	.468			
DRIL-IT ® TYPE/5	NO.12	.250 то .500	.625			
THE MOST IMPORTANT CONSIDERATIONS ! * WHAT IS THE APPLICATION ? * WHAT ARE THE MATERIALS ? * IS IT WOOD TO METAL ? How thick is the wood ? How thick is the steel ? Should a winged fastener be used ?						

\* IS ALUMINUM INVOLVED ?



## DECIMAL EQUIVALENTS OF STANDARD GAUGES OF SHEET STEEL & ALUMINIUM

NUMBER OF GAUGE	ALUMINUM	SHEET STEEL	
000000	.580		
00000	.5165		
0000	.4600	.4062	
000	.4096	.375	
00	.3648	.3437	
0	.3249	.3125	
1	.2893	.2812	
2	.2576	.2656	
3	.2294	.2391	
4	.2043	.2242	
5	.1819	.2092	
6	.1620	.1943	
7	.1443	.1793	
8	.1285	.1644	
9	.1144	.1495	
10	.1019	.1345	
11	.0907	.1196	
12	.0808	.1046	
13	.0720	.0897	
14	0641	.0747	
15	.0571	.0673	
16	.0508	.0598	
17	.0453	.0538	
18	.0403	.0478	
19	.0359	.0418	
20	.0320	.0359	
21	.0285	.0329	
22	.0253	.0299	
23	.0226	.0269	
24	.0201	.0239	
25	.0179	.0209	
26	.0159	.0179	
27	.0142	.0164	
28	.0126	.0149	
29	.0113	.0135	
30	.0100	.0120	
31	.0089	.0105	
32	.0080	.0097	
33	.0071	.0090	
34	.0063	.0082	
35	.0056	.0075	
36	.0050	.0067	
37	.0045	.0064	
38	.0040	.0060	

## PLATING - COATINGS - FINISH

**ZINC** -Most common form of corrosion protection. "Commercial" zinc is electrically applied to a thickness of .00015 to .0002".

**CADMIUM** - A significantly better coating than zinc in salt environments with excellent lubricity. Applied electrically to a thickness of .0003 to .0005". Cadium has become very rare in recent years because of EPA regulations concerning disposal of it's plating by-products.

**MECHANICAL or PEEN** - Utilizes glass balls or beads to mechanically pound a coating of zinc on to the fastener to an approximate thickness of .0066". Equal to "Hot Dip" Galvanizing.

**COATINGS** - Newest and most significant improvement in corrosion protection. IE Stalgard - Climaseal. These coatings are applied like paint over a zinc plated fastener and offer a superior form of protection.

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