

SFS

Self-drilling Screw Selection Guide



Self-drilling Selection Guide

This pamphlet serves as a guide for selecting the ideal self-drilling screw for your job. There are several key factors to consider: fastener diameter, drill point, and nominal length.

Fastener Diameter:

SFS offers a range of screw diameter sizes to suit different jobs. Use the chart to the right to determine the nominal diameter size of each fastener. This value is important as it typically determines the strength characteristics of the fastener. Refer to individual SFS data sheets on our website for these values.

Drill Point:

SFS drillers range from an SD1 (smallest) to an SD5 (largest). Generally, larger drill point sizes can drill into thicker metal panels. Use the "Drill Capacity" chart in this pamphlet to determine the appropriate drill point for your specific application. Note that, per the image on the right, the total thickness to be drilled includes the top and bottom panels to be drilled and any void space or insulation.







Fastener Length:

It is also important to determine the appropriate fastener length for your assembly. Fully formed threads must be engaged in all parts of the assembly for maximum holding strength. Use the, "Maximum Assembly Thickness" chart to determine the appropriate length screw for your application.

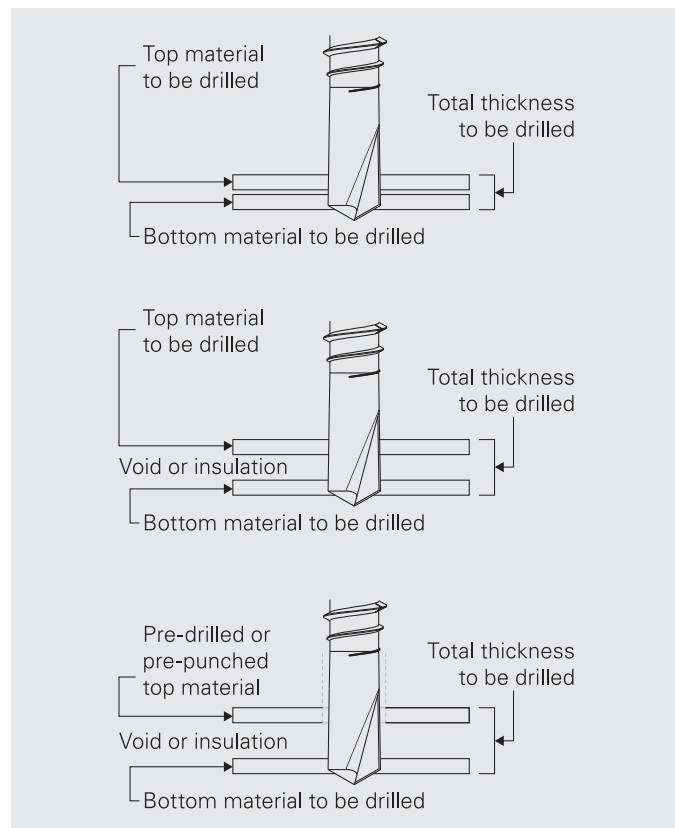
Disclaimer:

The information in this pamphlet applies to carbon steel fasteners only.

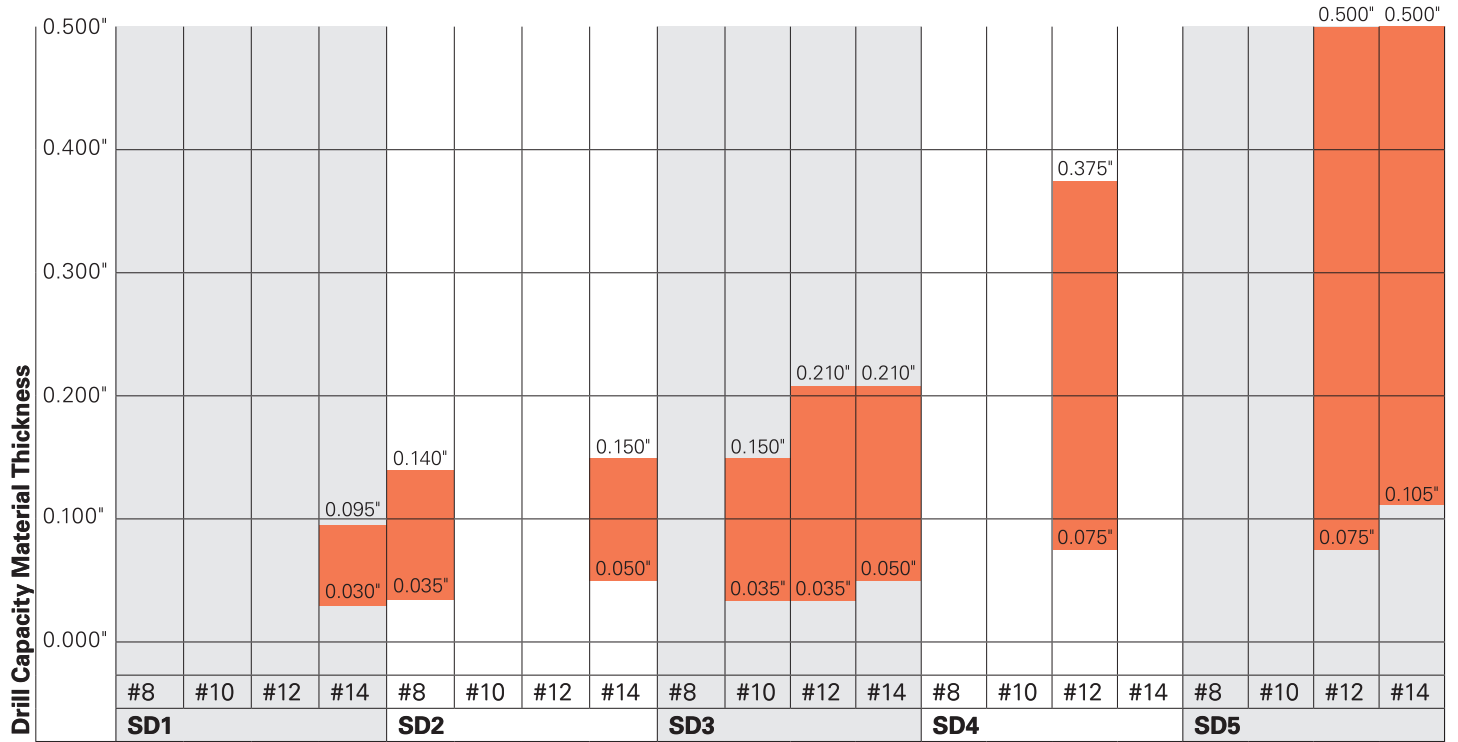
Nominal Diameter Sizes

Diameter	Actual Size	Decimal Equivalent
#8		0.165"
#9		0.181"
#10		0.190"
#12		0.216"
#14		0.250"
#17		0.291"

Drill Point Selection



Drill Capacity



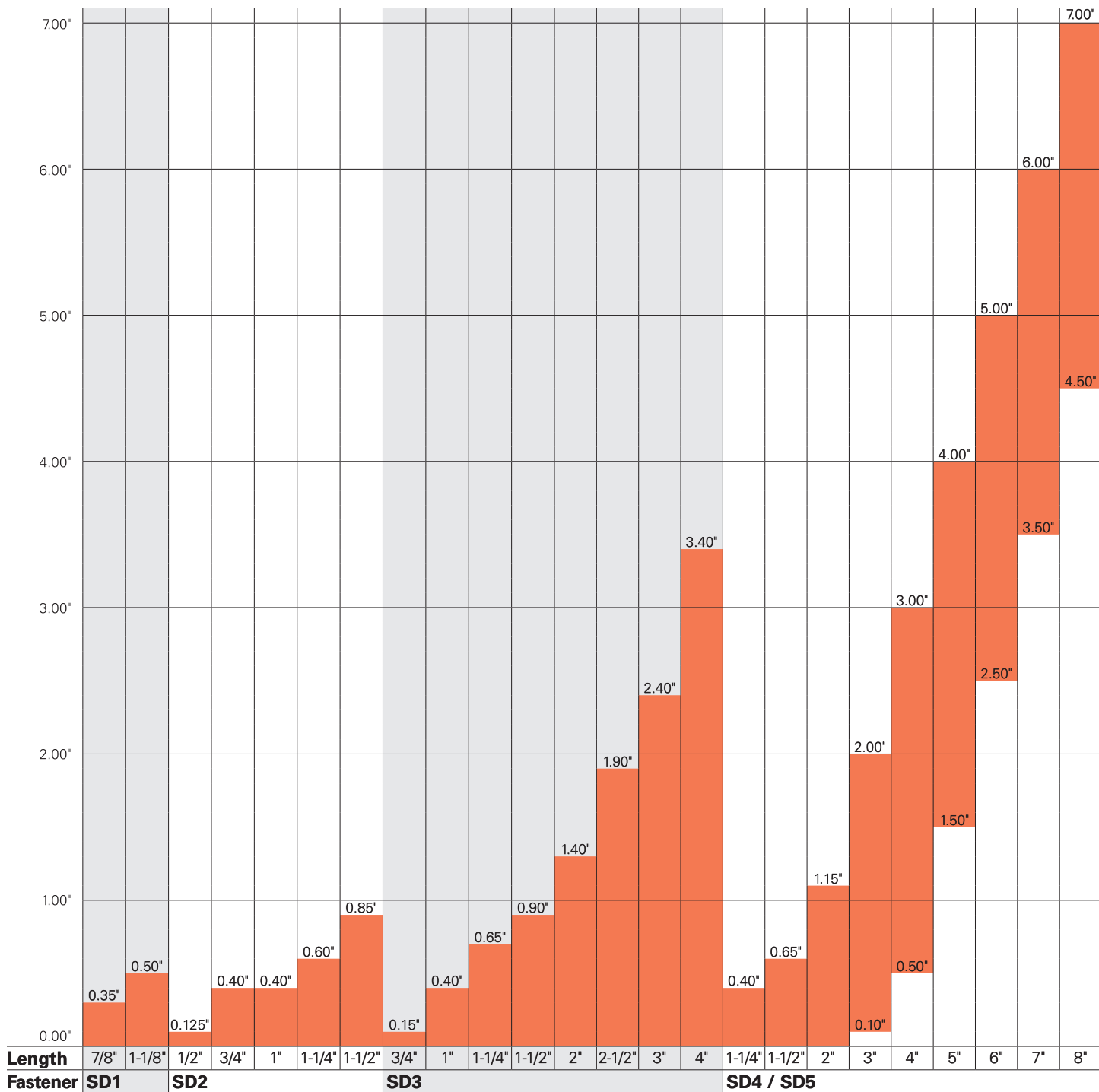
Refer to SFS product data sheets on website for most current values.

Steel Gauge Conversion

Gauge	Galvanized	Stainless	Aluminum
30	0.016"	0.013"	0.010"
28	0.019"	0.016"	0.013"
26	0.022"	0.019"	0.016"
24	0.028"	0.025"	0.020"
22	0.034"	0.031"	0.025"
20	0.040"	0.038"	0.032"
18	0.052"	0.050"	0.040"
16	0.064"	0.063"	0.051"
14	0.079"	0.078"	0.064"
12	0.108"	0.109"	0.081"

Note that the values included in this chart are generalized. According to ASTM A480-10a, there is no universal agreement on meaning of gauge numbers.

Maximum Assembly Thickness



Select the correct fastener based on length and drill point. Refer to SFS product data sheets on website for most current values.



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